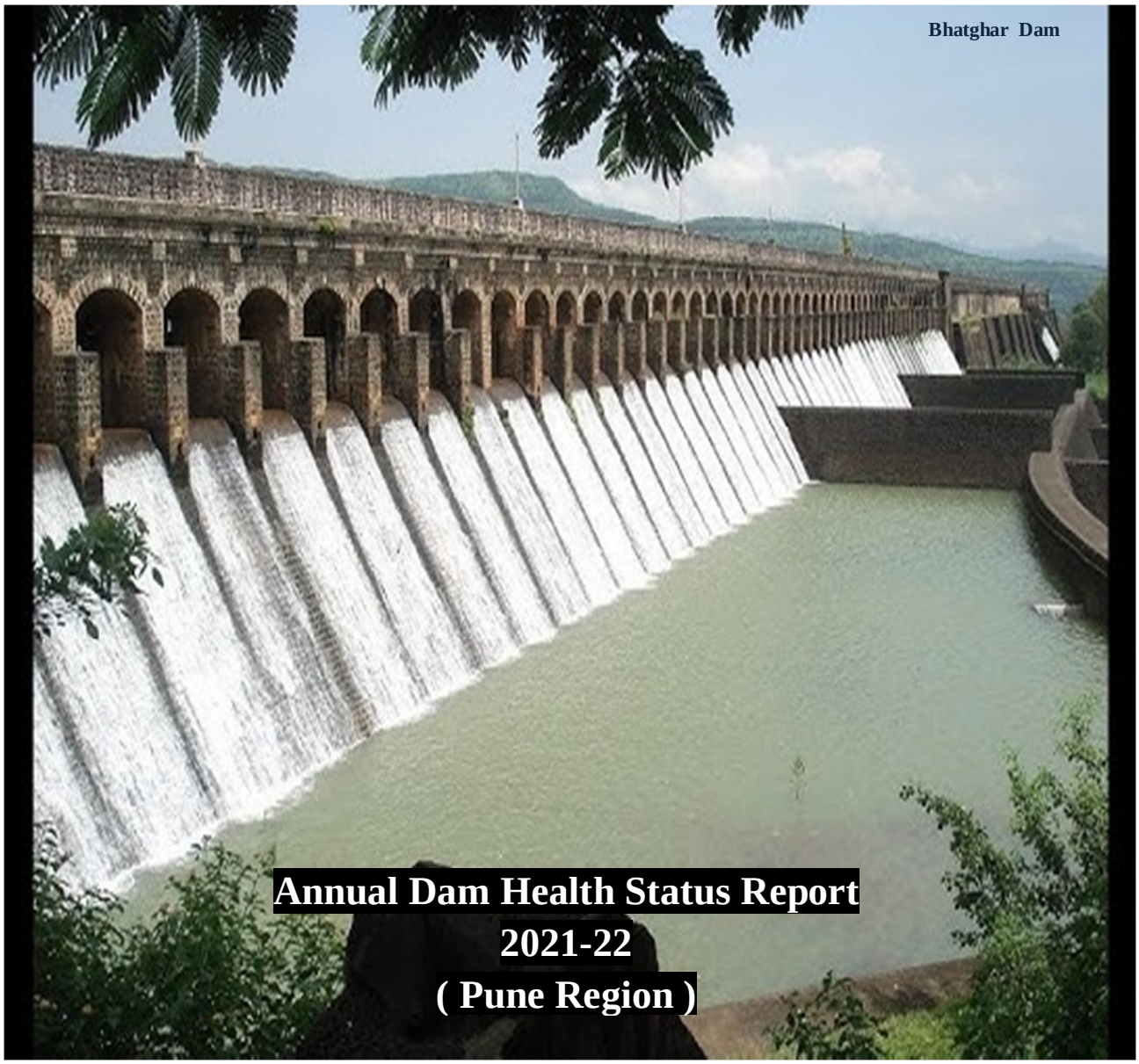
(For Office Use Only)

सत्यमेव जयते

Government of Maharashtra

Water Resources Department



Annual Dam Health Status Report 2021-22 (Pune Region)

Superintending Engineer
Dam Safety Organisation
Nashik

Chief Engineer
Hydrology & Dam Safety
Nashik

Director General
Design, Training, Hydrology, Research and Safety,
MERI, Nashik

Superintending Engineer
Dam Safety Organisation
Dindori Road, Nashik-422004.
Phone (Off.): 0253 – 2530030.
Fax: 0253 – 2530030.
E-mail: se.damsafety@gmail.com

सत्यमेव जयते

महाराष्ट्र शासन,

जलसंपदा विभाग

Government Of Maharashtra
Water Resources Department

अधीक्षक अभियंता,
धरण सुरक्षितता संघटना,
दिंडोरी मार्ग, नाशिक - ४२२ ००४.
दूरध्वनी (ऑ.): ०२५३ - २५३००३०
फॅक्स : ०२५३ - २५३००३०.
ई-मेल : se.damsafety@gmail.com

जा.क्र.धसुविक्र.१/ध.स्थि.अ.(पु) २०२१-२२/३५४/२०२२ दिनांक : ३१ /१०/२०२२

ई-मेल व्दारे

प्रति,

मा. कार्यकारी संचालक,
कृष्णा खोरे पाटबंधारे विकास महामंडळ,
पुणे.

विषय :- धरण स्थिती अहवाल २०२१-२२ (पुणे प्रदेश)

संदर्भ :- १) शासन, पाटबंधारे विभागाचे पत्र क्र .पा .वि.१०७७ / २४०२/ १८६७/२ दिनांक- १९/०१/१९८२
२) शासन ,जलसंपदा विभागाचे पत्र क्र. संकीर्ण २०१४ /(२२०/२०१४)/सिं.व्य. (कामे) दि. ९/१०/२०१५

संदर्भिय शासन पत्र क्र. १ अन्वये आपले अधिनस्त अधीक्षक अभियंता व कार्यकारी अभियंत्याकडुन या कार्यालयास प्राप्त झालेल्या पुणे विभागातील पर्जन्य पूर्व व पर्जन्योत्तर २०२१ धरण निरिक्षण अहवालांची छाननी तसेच धरण सुरक्षितता संघटनेकडुन करण्यात आलेल्या Test Inspection नुसार सन २०२१-२२ वर्षाचा धरण स्थिती अहवाल संदर्भ पत्र क्र. २ अन्वये प्राप्त निर्देश नुसार मा. महासंचालक, संप्रजसंवसु, मेरी, नाशिक यांचेकडुन प्रकाशीत करण्यात आलेला आहे.

मा. महासंचालक, संप्रजसंवसु, मेरी, नाशिक यांचे निर्देशानुसार

१) उपरोक्त प्रकाशीत धरण स्थिती अहवालातील प्रस्तावनेच्या अनुषंगाने मुद्येनिहाय अनुपालन अहवाल या कार्यालयास पाठविण्याचे निर्देश संबंधित अधीक्षक अभियंता यांना आपल्या स्तरावरुन देण्यात यावेत ही विनंती.

२) सदरचा अहवाल दरवर्षी एप्रिल महिन्यात प्रकाशीत करण्यासंबंधी धरण सुरक्षा देखरेख संचालनालय, केंद्रिय जल आयोग, सेवा दिल्ली यांचे निर्देश आहेत. तथापि संबंधित अधीक्षक अभियंता व कार्यकारी अभियंता यांच्याकडुन पर्जन्य पुर्व व पर्जन्योत्तर पाहणी अहवाल तसेच अधीक्षक अभियंता मार्फत प्राप्त होणारे त्रुटी पुर्तता अहवाल विहीत कालावधीत प्राप्त होत नसल्याने सदरचा धरण स्थिती अहवाल प्रकाशीत करण्यास विलंब झालेला आहे. यास्तव पाहणी व त्रुटी पुर्तता अहवाल विहीत कालावधीत पाठविण्यात यावेत. याबाबत आपल्या स्तरावरुन संबंधित अधीक्षक अभियंता यांना निर्देश देण्याची विनंती आहे.

३) महामंडळ स्तरावरुन त्रुटी दूर करण्यासाठी आवश्यक निधी उपलब्ध करुन देण्याचो व आवश्यकतेनुरुप सनियंत्रण करण्याची विनंती आहे, जेणेकरुन धरण सुरक्षित ठेवण्यास मदत होईल.

४) शासन निर्णय संकीर्ण. २०१६ (८८/१६)) / आयएम (डब्ल्यू) दि.९/५/२०१६, नुसार पुढील कार्यवाही करण्यात यावी हि विनंती.

५) धरण तपासणी अहवालातील त्रुटीचा पुर्तता अहवाल व पर्जन्य पुर्व व पर्जन्योत्तर पाहणी अहवाल विहीत कालावधीत धरण सुरक्षितता संघटना, नाशिक येथे प्राप्त होणेच्या अनुषंगाने संबंधित अधीक्षक अभियंता (वर्ग-१ धरणांसाठी) व कार्यकारी अभियंता (वर्ग-२ धरणांसाठी) यांना आपल्या स्तरावरुन कळविण्यात यावे ही विनंती.

६) *पुणे विभागाचा एकत्रित धरणस्थिती अहवाल -२०२१-२२ चे अवलोकन केले असता वर्ग-२ धरणांचे ०३ पावसाळा पूर्व २०२१ व तसेच वर्ग-१ धरणांचे ४ व वर्ग-२ धरणांचे ३१ पावसाळोत्तर २०२१ धरण निरिक्षण अहवाल प्राप्त झाले नाहीत.*

७) *मा. महासंचालक मेरी, नाशिक यांचे वर्ग-१ व वर्ग-२ धरणांचे पावसाळा पुर्व व पावसाळोत्तर तपासणी अहवालासोबत धरणांवरील विशेष त्रुटीबाबतचे प्रपत्र (संदर्भ परिच्छेद क्र. १.११) तांत्रिक परिपत्रक जा. क्र. सं.प्र.ज.सं व सु/भ अ सं सं/प्रशा/अधि/८८/सन २०२०, दि. २१/७/२०२० सादर करण्याबाबत सर्व संबंधीतांना आपले स्तरावर सूचना देण्यात याव्यात ही विनंती.*

8) दि. 30/12/2021 पासुन संपुर्ण देशात धरण सुरक्षा कायदा-2021 लागू करण्यात आला आहे. सदर कायदयाच्या पार्श्वभूमिवर राज्यातील वर्ग-1 व वर्ग-2 धरणांचे पावसाळापुर्व व पावसाळोत्तर तपासणी अहवाल व त्रुटीचा पुर्तता अहवाल वेळेत सादर करण्याचे निर्देश संबंधित अधीक्षक अभियंता यांना आपल्या स्तरावरुन देण्यात यावेत ही विनंती, जेणेकरुन पुणे विभागाचा एकत्रित धरणस्थिती अहवाल वेळेत प्रकाशित करणे सोयीचे होईल.

हे आपले माहितीस्तव व पुढील कार्यवाहीसाठी सविनय सादर.

सहपत्र : धरण स्थिती अहवाल २०२१-२२(पुणे प्रदेश)

(म. श. आमले)
अधीक्षक अभियंता,
राज्य धरण सुरक्षितता संघटना,
नाशिक

प्रत- मा. सचिव (जसंव्य व लाक्षेवि), जलसंपदा विभाग, मंत्रालय, मुंबई यांना अहवालासह माहितीस्तव सादर.
प्रत- मा. महासंचालक, संकल्पन, प्रशिक्षण, जलविज्ञान, संशोधन व सुरक्षितता, मेरी, नासिक यांना अहवालासह माहितीस्तव सादर.
प्रत- मुख्य अभियंता, जलविज्ञान व धरण सुरक्षितता , नाशिक यांना अहवालासह माहितीकरीता सादर.
प्रत- मुख्य अभियंता, यात्रिकी (जलसंपदा विभाग), नाशिक यांना अहवालासह माहितीस्तव सादर.
प्रत- मा. मुख्य अभियंता (ज.सं),जलसंपदा विभाग,पुणे यांना अहवालासह माहितीस्तव सादर.
प्रत- मा. मुख्य अभियंता (वि. प्र), जलसंपदा विभाग,पुणे यांना अहवालासह माहितीस्तव सादर.

प्रत,

१.अधीक्षक अभियंता, पुणे पाटबंधारे मंडळ, पुणे.
२.अधीक्षक अभियंता, पुणे पाटबंधारे प्रकल्प मंडळ, पुणे.
३.अधीक्षक अभियंता, कोल्हापूर पाटबंधारे मंडळ, कोल्हापूर.
४.अधीक्षक अभियंता, सांगली पाटबंधारे मंडळ, सांगली.
५.अधीक्षक अभियंता, व प्रशासक, लाभक्षेत्र विकास प्राधिकरण, पुणे.
६.अधीक्षक अभियंता, कुकडी पाटबंधारे मंडळ, पुणे.
७.अधीक्षक अभियंता, सातारा पाटबंधारे प्रकल्प मंडळ, सातारा.
८.अधीक्षक अभियंता, व प्रशासक, लाभक्षेत्र विकास प्राधिकरण, सोलापूर.
९.अधीक्षक अभियंता, भीमा कालवे मंडळ, सोलापूर
१०.अधीक्षक अभियंता, सातारा पाटबंधारे मंडळ, सातारा
११.अधीक्षक अभियंता, (धरण व दरवाजे), म. सं. चि. सं., नाशिक.
१२.व्यवस्थापक, टाटा पॉवर कंपनी लिमिटेड, मुंबई - पुणे रस्ता, लोणावळा कॅम्प, लोणावळा, ता.मावळ, जि. पुणे.
१३.व्यवस्थापक, अॅम्बी व्हॅली सिटी, सहारा इंडिया कॉर्पोरेशन साइट, ऑफिस कॉम्प्लेक्स अंबवणे, ता. मुळशी, जि.पुणे.
१४.स्टेशन कमांडर,आय एन यस शिवाजी,लोणावळा,पुणे.
१५.मुख्य आस्थापना अधिकारी, सिम्बायोसिस विद्यापीठ,पुणे.
१६.मा.आयुक्त, कोल्हापूर महानगरपालिका, कोल्हापूर.
१७.मुख्याधिकारी,कागल नगर परिषद, कागल जि. कोल्हापूर.
१८.धरण अधिकारी,सर पिराजीराव तलाव,मुरगुड जि. कोल्हापूर

यांना माहितीस्तव व पुढील योग्य त्या कार्यवाहीस्तव अहवालासह सस्नेह अग्रेषित.

२/- कृपया वरील अहवालाची प्रत मिळाल्याची पोहच या कार्यालयास पाठवावी हि विनंती.

प्रत,

१.कार्यकारी अभियंता, पुणे पाटबंधारे विभाग, पुणे.
२.कार्यकारी अभियंता, खडकवासला पाटबंधारे विभाग, पुणे.
३.कार्यकारी अभियंता, उपसा सिंचन व्यवस्थापन विभाग, पुणे.
४.कार्यकारी अभियंता, नीरा उजवा कालवा विभाग, फलटण. जि. सातारा.
५.कार्यकारी अभियंता, भामा आसखेड धरण विभाग, पुणे.
६.कार्यकारी अभियंता, नीरा देवघर प्रकल्प विभाग, सांगवी (भाटघर) जि. पुणे
७.कार्यकारी अभियंता, टेमघर प्रकल्प विभाग, पुणे.
८.कार्यकारी अभियंता, दूधगंगा कालवे विभाग क्र.१, कोल्हापूर.
९.कार्यकारी अभियंता, मध्यम प्रकल्प विभाग क्र. २, कोल्हापूर.
१०.कार्यकारी अभियंता, लघु पाटबंधारे विभाग, (उत्तर) कोल्हापूर.
११.कार्यकारी अभियंता, सांगली पाटबंधारे विभाग, सांगली.
१२.कार्यकारी अभियंता, कोल्हापूर पाटबंधारे विभाग, (दक्षिण) कोल्हापूर .
१३.कार्यकारी अभियंता, कुकडी पाटबंधारे विभाग, क्र. १, नारायणगाव जि. पुणे
१४.कार्यकारी अभियंता, कुकडी पाटबंधारे विभाग, क्र. २, श्रीगोंदा, जि.अहमदनगर.
१५.कार्यकारी अभियंता, धोम पाटबंधारे विभाग, सातारा.
१६.कार्यकारी अभियंता, पिंपळगाव जोगे धरण विभाग, नारायणगाव जि. पुणे.
१७.कार्यकारी अभियंता, डिंभे धरण विभाग, मंचर, जिल्हा पुणे.
१८.कार्यकारी अभियंता, लघु पाटबंधारे विभाग, सातारा.
१९.कार्यकारी अभियंता, कण्हेर कालवे विभाग क्र. १, कारवाडी (कराड).
२०.कार्यकारी अभियंता, कण्हेर कालवे विभाग क्र. २, वाई, जिल्हा सातारा.
२१. कार्यकारी अभियंता, उरमोडी धरण विभाग, सातारा.
२२.कार्यकारी अभियंता, धोम बलकवडी प्रकल्प विभाग, वाई, जिल्हा सातारा.
२३.कार्यकारी अभियंता, उजनी धरण व्यवस्थापन विभाग, भीमानगर, ता.माढा, जि. सोलापूर.
२४.कार्यकारी अभियंता, सोलापूर पाटबंधारे विभाग, सोलापूर.
२५.कार्यकारी अभियंता, भीमा विकास विभाग क्र. २, सोलापूर.
२६.कार्यकारी अभियंता, लघु पाटबंधारे विभाग क्र. १, सोलापूर.
२७कार्यकारी अभियंता, उजनी कालवा विभाग क्र. ८, सोलापूर.
२८.कार्यकारी अभियंता, कोयना धरण व्यवस्थापन विभाग, कोयनानगर, जि.सातारा.
२९.कार्यकारी अभियंता, चासकमान पाटबंधारे विभाग पुणे .
यांना माहितीसाठी व पुढील योग्य त्या कार्यवाहीसाठी अहवालासह रवाना.

दोष व त्रुटी बद्दल त्वरीत कार्यवाही करुन अनुपालन / पुर्तता अहवाल संबंधित मंडळ कार्यालयामार्फत **धरण सुरक्षितता संघटना, नाशिक येथे त्वरित पाठवावे.**

२/- सदर अहवालाची प्रत ई-मेल व्दारे पाठविण्यात आलेली आहे.

प्रत - कार्यकारी अभियंता, धरण सुरक्षा विभाग क्र .३, नाशिक ४
२/- यांना ग्रंथालयात संग्रहासाठी.

प्रत - ग्रंथालय, मध्यवर्ती संकल्पचित्र संघटना, नाशिक यांना अहवालाच्या प्रतीसह माहितीसाठी.

FOREWORD

1.0 Annual Dam Health Status Report (ADHSR) 2021-22 of Class-I & Class-II Dams in Pune Region is prepared based on the Inspection Reports (Pre and Post Monsoon 2021) received from field offices and Test Inspections carried out by Dam Safety Organization (DSO), Nashik during Year 2021-22.The period of the report is from April 2021 to March 2022.

2.0 This Report comprises of following Parts.

Part	Description
Part-1	General Information
Part-2	Action Taken Report (ATR)
Part-3	Annual Dam Health Status Report (ADHSR) of Pre & Post Monsoon 2021-22
Part-4	Annual Performance Report of Dam Instruments
Part-5	Annual Performance Report of Meteorological Instruments
Part-6	National Committee on Dam Safety (NCDS) Documents
Part-7	Dam Health and Rehabilitation Monitoring Application (DHARMA)
Part-8	Health Status of Gated Dam (As per Mechanical Organization)

Part-1 & Part-6 to 8 are envisaged by DSO, Nashik & Part-2 to 5 are in the format provided by Dam Safety Monitoring Directorate, Central Water Commission, New Delhi vide letter No. 3/19/NCDS/HS/DSM/2001/627-56 Dated 28/08/2002.

2.1 Part-1: Covers General Information viz. Time schedule of Inspection, Classification of Dams, Inspection Authorities, Preparation of ADHSR for Class-I & Class-II Dams, Categorization and Standardization of Deficiencies, NRLD updation, which will be helpful to field officers. Inspecting officers are requested to follow the suggestion given in 'Part-1' while carrying out forthcoming Pre/Post Monsoon inspections of dams.

2.2 Part-2: Covers Action Taken Report (ATR) on Deficiencies pointed out in last Year ADHSR 2020-21 & Status of efforts taken by field office.

2.3 Part-3: Covers condensed summary of Dam deficiencies noticed during inspection carried out by field officer and Dam safety Organization in the Year 2021-22**.**

2.4 Part-4: Covers details of Instrumentation provided in or on Dams & its Functionality. Prepared by Instrumentation and Research Division, Nashik.

2.5 Part-5: Covers details of Metrological Instrumentation provided at Dam Site & its Functionality. Prepared by Instrumentation and Research Division, Nashik.

2.6 Part-6: Covers status of Documents (EAP, ROS & GOS, Data Book, O & M Manual, Record Drawing, Completion Report) recommended by National Committee on Dam Safety.

2.7 Part-7: Covers Progress of updation of Dam Information filled in DHARMA Web Portal.

2.8 Part-8: Covers status of Action Taken Report on Deficiencies pointed out in ADHSR- 2020-21 & Deficiencies observed in ADHSR- 2021 of Mechanical Organization for Gated Dams.

3.0 This report covers Dam Health Status of 69 Class-I &193 Class-II Dams owned by WRD and Also covers 7 Class-I & 10 Class-II Private Owned Dams.

4.0. There are total 262 Govt owned Dams in this Region. Out of 524 expected Inspection Reports, this ADHSR is based on 488 Inspection Reports received in DSO, Nashik.

Status of Receipt of Inspection Report 2021-22

(Ref. Table- 3.1 & 3.3)

Dam Owner	Expected Inspection Report in DSO			Inspection Report Received in DSO			Inspection Report Not Received in DSO		
	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total
WRD	138	386	524	134	354	488	4	32	36
Private	14	20	34	4	10	14	10	10	20
Total	152	406	558	138	364	502	14	42	56

Dams having Deficiencies

(Ref. Table- 3.6)

Dam owner	Year	No. of Dams								
		Class of Dam		Total	Class-I dams having Deficiencies			Class-II dams having Deficiencies		
		I	II		Cat-I	Cat-II	Cat-III	Cat-I	Cat-II	Cat-III
W.R.D	2020-21	69	193	262	00	54	69	0	71	193
	2021-22	69	193	262	00	65	69	00	111	191
Private	2020-21	07	10	17	00	06	7	00	05	10
	2021-22	07	10	17	00	04	04	00	07	10
Total	2020-21	76	203	279	0	60	76	0	76	203
	2021-22	76	203	279	00	69	73	00	118	201

Category wise Deficiencies

(Ref. Table- 3.7)

Dam owner	Year	No. of Deficiencies								
		Category–1			Category-2			Category-3		
		Class		Total	Class		Total	Class		Total
		I	II		I	II		I	II	
W.R.D	2020-21	00	00	00	418	150	568	797	1551	2348
	2021-22	00	00	00	469	187	656	996	1645	2641
Private	2020-21	00	00	00	08	10	18	25	45	70
	2021-22	00	00	00	05	17	22	18	62	80
Total	2020-21	00	00	00	426	160	586	822	1596	2418
	2021-22	00	00	00	474	204	678	1014	1707	2721

Gated Dams having Deficiencies (Class-I)(As per Mechanical Organization)

(Ref. Table- 8.1)

Dam owner	Year	Number of Gated Dams	No. of dams inspected	No. of dams having deficiencies	Number of Deficiencies		
					Category		
					Category-1	Category-2	Category-3
W.R.D	2020-21	40	37	37	0	724	1613
	2021-22	39	39	39	0	858	2114
Private	2020-21	02	01	01	0	07	29
	2021-22	01	01	01	0	05	35
Total	2020-21	42	38	38	0	731	1642
	2021-22	40	40	40	0	863	2149

5.0: The responsibility of Health and Safety Monitoring of Class-III dams lies with the respective Chief Engineers. Hence for Class-III Dams based on periodical inspection reports, Annual Dam Health Status Report should be prepared & published by concerned Field Chief Engineers with submission to Government & forwarded to DSO, Nashik for record.

6.0: The deficiencies shown in the present report are based on the Pre/ Post Monsoon Inspections of the Dams carried out by the field officers and reports of them received by this organization. As such, the deficiencies and action taken thereof is the sole responsibility of the field officers.

7.0 Conclusions :

Government Owned Class-I Dams :

7.01 : Category-1 Deficiency is Not noticed in all 69 Dams.

7.02 :469 No. of Category-2 Deficiencies in 65 out of total 69 No. of Dams are noticed.

7.03 :996 No. of Category-3 Deficiencies in total 69 Dams are noticed.

7.04: Out of ATR expected for 445 No. of Category-2 Deficiencies, field action for removal of Deficiencies is noticed for 43 Deficiencies (Physically fully completed -43 & Physically partly completed-31) only.

Government Owned Class-II Dams :

7.05: Category-1 Deficiency is Not noticed in all 193 Dams.

7.06:187 No. of Category-2 Deficiencies in 111 out of total 191 No. of Dams are noticed.

7.07:1645 No. of Category-3 Deficiencies in total 191 Dams are noticed.

7.08:Out of ATR expected for 147 No. of Category-2 Deficiencies, field action for removal of Deficiencies is noticed for 1 Deficiencies (physically fully complied)Completed.

Private Owned Class-I Dams :

7.09: Category-1 Deficiency is Not noticed in all 04 Dams.

7.10 :05 No. of Category-2 Deficiencies in 04 out of total 04 No. of Dams are noticed..

7.11 :18 No. of Category-3 Deficiencies in total 04 Dams are noticed.

7.12:Out of ATR expected for 8 No. of Category-2 Deficiencies, No field action is noticed for removal of Deficiencies.

Private Owned Class-II Dams :

7.13:Category-1 Deficiency is Not noticed in all 10 Dams.

7.14 :17 No. of Category-2 Deficiencies in total 07Dams are noticed.

7.15 : 62 No. of Category-3 Deficiencies in total 10 Dams are noticed.

7.16 : Out of ATR expected for 10 No. of Category-2 Deficiencies, No field action is noticed for removal of Deficiencies.

8. Points of Attention:

8.01: It is mandatory that Pre Monsoon Inspection Report must be submitted to DSO, Nashik by 30th June & Post Monsoon Inspection Report must be submitted to DSO, Nashik by 31st December every Year.

8.02: As per Dam Safety Monitoring Directorate, Central Water Commission, New Delhi Annual Dam Health Status Report (ADHSR) must be submitted in the month April every Year.

8.03: It is pointed out that only 47 (8.97 %) Pre & Post Monsoon Reports out of 524 Pre & Post Monsoon Reports are received in stipulated period.
441 (84.16 %) Pre & Post Monsoon Reports are received out of 524 Pre & Post Monsoon Reports after rigorous follow up by DSO officials & 36 (6.87 %) reports out of 594 Pre & Post Monsoon Reports were not received at all. All field officers & Higher Authorities shall take serious note of this in light of enactment of Dam Safety Act 2021.

8.04: ATR expected for 134 No. of Dams (610 Cat-2 Deficiencies). However ATR was received for 30 No. (192 Cat-2 Deficiencies) of Dams i.e. only 22.91 % of Cat-2 Deficiencies fully addressed & for 30 No. (192 Cat-2 Deficiencies) of Dams i.e. only 16.66 % of Cat-2 Deficiencies partially addressed.

8.05: Concerned Chief Engineer should monitor and instruct field Superintending Engineer & Executive Engineer regarding submission of ATR to DSO, Nashik to reflect exact status of Dam Safety works.

8.06: The Chief Engineers should compel all Superintending Engineer & Executive Engineer of concerned Dams to carry out periodic inspections and submit report to D.S.O. in time.
Brain storming of field officer regarding Dam Safety aspect is must otherwise the whole exercise done by Dam Safety Organization tends to become futile.

8.07: In case of Mechanical Organization inspections, Out of ATR expected for 888 No. of Category-2 Deficiencies, 33 Action Taken Report (ATR) from field for removal of Deficiencies are received

8.08: Earthen dam uprooting of trees & shrubs grown on embankment of Dam follow CWC guidelines for safety of dams 2018. [Page 54/90]

8.09: Review of a need for painting of Gates & structural parts to avoid further deterioration in consultation with Mechanical organization.

8.10: Being the dam owner, safety of the dam is the prime responsibility of the concerned field Executive Engineer. In order to ensure safety of dam/dams in his jurisdiction, he shall initiate The procedures for removal of deficiencies noticed in the Pre-Post Monsoon Inspection as well as pointed out in this ADHSR by following due procedure of approval.

8.11: Higher authorities i.e. Superintending Engineer and Chief Engineer shall accord timely sanction to most economical and sustainable technical work required for Deficiency removal.

8.12: Executive Director, Krishna Valley Irrigation Development Corporation are requested to make required funds available to the Deficiency removal and monitor the progress periodically. This will help in keeping the Dam safe.

8.13: As per Marathi Government Resolution Misc. 2016/(88/16)/IM(W) Dtd.- 09/05/2016, Responsibility of Approval of M & R Work's Procurement List & Prioritization of execution of work & its implementation is entrusted to Superintending Engineers. And Responsibility of Review & monitoring is entrusted to Chief Engineers.

8.14: Hence, It is expected that Superintending Engineers should verify whether Works of removal of Deficiencies are proposed to address Deficiencies pointed in ADHSR while approving Procurement List of the M & R works of the Project.

8.15:Gist of report is that though inspection of Dams are carried out &Reports are published however status of ATR depict that despite of M&R expenditure extreme poor performance of removal deficiency is observed. Field officers should take serious note of this.

8.16: Central Government has enacted Dam Safety Act 2021 from date 30/12/2021 to provide for surveillance, Inspection, Operation & Maintenance of the specified dam for prevention of dam failure disaster & to provide for institutional mechanism to ensure their safe functioning & for matters connected therewith or incidental thereto So that Dam owner shall give specific attention for implementation of Dam Safety Act 2021.

I hope this report will serve desired expectations expressed by Dam Safety Monitoring Directorate of C.W.C.New Delhi. Any error, discrepancies omissions if any may please kindly by brought to the notice. So that it can be taken into consideration in the next report.

The efforts taken by the Superintending Engineer, Dam Safety Organization, Nashik and his team, for completion of this report are highly appreciated.

Sd/-

Place: Nashik

Date: 11/10/2022

(R. R. Shah)
Director General
Design, Training, Hydrology, Research and Safety,
MERI, Nashik

INDEX

Part-1

General Information

Part-1 General Information

1.01 Introduction:

As per National Register of Large Dam (NRLD) published by CWC, New Delhi, Maharashtra has the distinction of having largest numbers of dams in the country.

A separate Organization called Dam Safety Inspectorate, Nashik was functioning in the State since 20/10/1980.Its status is upgraded as Dam Safety Organization, Nashik from 01/05/1985. The organization consists of a circle level unit headed by Superintending Engineer under which Executive Engineer, Dam Safety Division No.1, Nashik looks after Pune Region.

1.02 Inspection of Dams:

The Government of Maharashtra has delegated powers of Pre and Post Monsoon Inspection to competent authority for Pre and Post Monsoon Inspection of the Dams vide G.R Dtd.23/08/1998.

Dam Safety Organization, Nashik carries out scrutiny of the inspection reports received from field offices for Class-I &Class-II Dams. Significant & Serious deficiencies observed during scrutiny are immediately intimated to Field Offices to carry out Remedial Measures.

The “Annual Dam Inspection Programme” is sanctioned by Director General, DTHRS MERI Nashik. Test inspections are carried out by Dam Safety Organization as a third party inspection to crosscheck the inspections carried out by Field Offices.

Pune Region comprising 262 Government owned Completed Dams (includes 2 National Important Dams, 13 Century Old Dams & 5 Dams under Construction Dams) & 17 Private Dams

DSO, Nashik monitors all Government Dams from safety point of view. In addition to this DSO, Nashik carried out detailed inspections of 17 Private Dams (6 owned by TATA, 3 owned by KMC Kolhapur, 2 owned by INS Shivaji, Indian Navy, Pune, 2 owned by Symbiosis, Lavale, Pune, and 1 owned by Kagal Nagar Parishad Kolapur.) on Consultancy basis.

1.03 District wise and Class wise break up of number of Dams :

District	No. Of Class-I Dams	No. Of Class-II Dams	No. Of Class-III Dams	Grand Total
Pune	24	45	21	90
Satara	15	30	9	54
Sangli	3	52	29	84
Kolhapur	21	37	6	64
Solapur	3	25	47	75
Ratnagiri	1	0	0	1
A.Nagar	1	4	0	5
Osmanabad	1	0	0	1
Govt. Total	**69**	**193**	**112**	**374**
Pune	7	6	0	13
Kolhapur	0	4	0	04
Private Total	**7**	**10**	**0**	**17**
Grand total	**76**	**203**	**112**	**391**

1.04 Time Schedule of Inspections :

The Government of Maharashtra has designed systematic approach for monitoring each and every dam. The periodical inspection of dams must be completed as per following schedule.

Type of Inspection	Last dates for	
	Completion of Inspection	**Sending of Inspection reports to concerned authorities.**
(1) Pre Monsoon	15th May	30th June
(2) Post Monsoon	30th November	31st December
(3) Special inspection before the first filling (Report need not be sent to Dam safety Organization)	30th April	31st May
(4) Special inspection after the first filling	Within one week after the lake attains the intended storage level.	Within one week from the date of inspection.
(5) Special inspection after a severe distressing event or accident or incident.	Immediately after the event is noted.	Within one week form the date of inspection?

1.05 Classification of Dams :

The dams are categorized into three types based on their component and features as below.

SR No	Type of Dam	Height from general level of deepest foundation in m.	Impounded gross storage capacity Up to FRL in M Cum	Spillway capacity	Type of spillway
1	**2**	**3**	**4**	**5**	**6**
1	Class-I Dam	Above 30 m	Above 60 M Cum	Above 3,000 Cumecs	Gated Spillway
2	Class-II Dam	15 m to 30 m	15 M Cum upto 60 MCum	2,000 to 3,000 Cumecs	Ungated Spillway
3	Class-III Dam	10 m.to15m	1.0 M Cum upto 15 MCum	2,000 to 3,000 Cumecs	Ungated Spillway

Note :

1) All dams more than 15 meters in height will be classified under “Large Dam” Irrespective of other parameters.
2) All dams less than 10 meters in height will be classified as “Small Dam” irrespective of other parameters.
3) In order to determine the exact category of “Large Dam” following procedure shall be followed. The category of dam as per (I) Height (II) Storage Capacity & (III) Spillway Capacity shall be worked out individually. The highest of category shall be appropriate category of dam
4) Apart from above following additional parameters shall be considered for deciding

the category of the dams between 10 to 15 m. in height.

a) Dams having length of crest more than 2000 m. OR
b) Dams having specially difficult foundation problems OR
c) Dams with unusual design shall be classified under “Large Dams (Class-II)”
d) Dams having length of crest more than 500 meters but less than 2000 meters Shall be classified as “Large Dams (Class-III)”

1.06 Field Inspection Authorities :

The designated inspection authority for periodical inspection of dam depending upon the classification of type of dam is as below

Sr. No.	Type of Dam	Inspection authority	Inspection Reports to be sent to	Test Inspection
1	2	7	8	9
1	Class-I Dam	Superintending Engineer/ Administrator	1) Chief Engineer 2) Superintending Engineer Dam Safety Organization.	Test Inspection by the Regional Chief Engineer/ Chief Administrator for the dams having height more than 60 m or storage capacity more than 1000 MCum or spillway capacity 10000 Cumecs or more
2	Class-II Dam	Executive Engineer	1) Superintending Engineer/ Administrator 2) Superintending Engineer, Dam safety Organization	
3	Class-III Dam	Deputy Engineer	1)Superintending Engineer/ Administrator 2) Executive Engineer	

1.07 Preparation Of Annual Dam Health Status Reports Of Class-I & class-II Dams :

Dam safety Organization carried out scrutiny of the periodical inspection reports of Class-I & Class-II dams received from field offices and significant deficiencies are immediately communicated to concern authorities to carry out remedial measures.

Based on all periodical inspection reports from Field Offices and Test Inspections carried out by DSO, Nashik, Region wise Annual Dam Health Status Report is published by DG, DTHRS, MERI, Nashik and submitted to Government, CWC and circulated to all concerned Field Offices.

1.08 Preparation of Annual Dam Health Status Report of Class-III Dams :

The responsibility of Health and Safety Monitoring of Class-III dams lies with the respective Chief Engineer. Hence for Class-III Dams based on periodical inspection reports, Annual Health Status Report of Class-III dams should be prepared by concern Field Chief Engineers and forwarded to DSO, Nashik for record.

1.09 Guidelines Regarding Preparation of Annual Dam Health Status Report :

ADHSR is prepared in DSO, Nashik as per Central Water Commission New Delhi’s guidelines received vide letter Dtd. 28/08/2002. As per this letter it is intimated that all States / Organizations should submit the Annual Dam Health Status Report (ADHSR) in the month of ‘April’ every year.

1.09.1 Categorization of Deficiencies

The deficiencies observed are categorized as per CWC, New Delhi's letter Dtd. 28/08/2002 as below

Category	Action to be taken
Category-1	Dams with Major deficiencies which may lead to dam failure.
Category-2	Dams with Major rectifiable deficiencies needing immediate attention.
Category-3	Dams having Minor/ No deficiencies.

For further detailing of deficiencies based on the nature and priority of deficiency, DSO, Nashik has standardized all the three types of deficiencies.
These standardized deficiencies are as follows

1.09.2 Category-1 Standard Deficiencies :

Sr. No.	Deficiencies	Category identifier
1 E -	**Earthen Dam**	
1	Seepage water has created an open pathway or pipe through dam, which may lead to failure of dam by piping.	1E.1
2	Heavy seepage with muddy or turbid water is observed through any part of dam.	1E.2
3	Seepage water flooding from a boil in the foundation or from relief well on downstream side of dam.	1E.3
4	Outlet well / Head regulator well and hoisting structure is collapsed/completely damaged.	1E.4
5	Outlet pipe in the body of the dam is damaged/failed and uncontrolled outlet-releases eroding Toe of dam.	1E.5
6	Debris stuck under gate or gate leaf is cracked / failed resulting uncontrolled flow through outlet.	1E.6
1 M	**Masonry Dam**	
1	Downstream movement or tilting of dam.	1M.1
2	Differential movement of dam blocks/monoliths.	1M.2
3	Vertical Displacement with visible cracking in the body of dam.	1M.3
4	Spillway gate damaged / not working.	1 M.4

1.09.3 Category-2 Standard Deficiencies :

Deficiency Cat II (A)	Deficiency Cat II (B)
Earthen Dam	
A.1: Boil/leakage/ seepage/ wet patches/ slushiness in Earthen Dam.	**B 1:** Dam section is not as per design
A 2: Standing pool / Ponding / Water Logging / Slushy condition on D/S of Dam	**B 2:** Cross and toe drains not working properly/ drains silted or vegetated causing stagnant pool of water.
A 3 : Leakages in vicinity of junction between earthen dam & masonry dam portion.	**B 3:** Considerable settlement of embankment / Rock toe/Pitching/ U/S & D/S slops, bulging/concavity of slopes.
A 4 : Major leakages through outlet conduit/pipe joints/Gates.	**B 4**: Longitudinal / Transverse cracks/ low area/sink holes/gully formation on top side slope of earthen dam.
A 5 ; Relief wells not functioning properly./	**B 5:** Outlet gates not functioning properly. Stem

Deficiency Cat II (A)	Deficiency Cat II (B)
Abnormal rise in water level in wells.	rod is bent(Service gate/Emergency gate/Stop log gate/sluice gate)
A 6 : Outlet well is damaged/not in good condition /cracks observed/jets of water in well.	**B 6:** Approach to dam through all weather road not constructed/maintained properly.
A 7 : Retrogression /scouring in tail channel.	**B 7:** Waste weir/waste weir bar not in good condition/coping damaged/leakage through waste weir.
Masonry / Concrete Dam	
A 8 : Drainage gallery inaccessible/No adequate lighting./ No dewatering arrangement or failure.	**B 8:** Pointing on U/S face of dam not in good condition./deterioration spalling of concrete surface.
A 9 : Foundation drains / holes/ porous pipes/chocked/ no seepage through foundation drain holes.	**B 9:** Instruments not in working condition.
A 10 : Heavy leakages through porous pipes/ through dam body in gallery /monolith joints.	**B 10:** Leakages through River sluice.
A 11 : Sweating / seepages through D/S of masonry dam	
A 12 : Excessive considerable leaching from seepage water.	
A 13 : Swelling / minor cracking observed on body of dam.	
A 14 : EDA / Stilling basin damaged/Hydraulic performance not good.	
A 15 : Leakages through spillway /piers//junction of flank wall.	
A 16: Damages / foundation erosion/ scour/undermining observed in vicinity of flank walls/ guide walls/ junction walls/return walls.	
A 17 :End weir not in good condition / scouring noticed on immediate D/S.	
Spillway gates	
A 18 :Wire ropes of hoist not in good condition/hoisting structure damaged/cracked.	**B 11**: Surface paint/steel surface of spillway gates deteriorated.
A 19 : Alternative power system Generator for gate operation not working properly.	**B 12** : Damage to Rubber seals/ considerable Leakages through gates.
A 20 : Operation of gates not smooth needs repair.	
Other structures	
	B 13 : Heavy vegetation/big trees on embankment top/slope making dam portion not accessible.
	B 14 : Deck bridge slab/ pier / damaged cracked/ alignment disturbed.
	B 15 :Major portion of Pitching damaged/washed away.

1.09.4 Category-3 Standard Deficiencies :

Sr. No.	Deficiencies	Category identifier
1	Profuse growth of bushes and trees over dam portion.	3.1
2	Guard stones/ chainage stones and parapet wall not provided /damaged.	3.2
3	Growth of aquatic weeds in reservoir of dam is observed.	3.3
4	Ant hills or crab holes/holes made by rodents/animals**.**	3.4
5	Minor undulation/ settlement/slightly less top width/ Rain cuts / pot holes observed on dam top & slopes.	3.5
6	Access road**/**Dam top road surface/ slab joints damaged needs repair.	3.6
7	Pitching on embankment of dam is dislocated /disturbed at some places.	3.7
8	Breaching section is not accessible/ Instruction board showing operation of breaching section is not available.	3.8
9	Section of Toe drain/cross drain/ out fall drain/rock toe damaged at some places. Pitching of drains disturbed. Some weed, vegetation growth/ siltation in nalla/drains. Nalla needs regradation.	3.9
10	Surface drain/ Catch water drains for berms are silted /damaged	3.10
11	Electric cable & wiring are damaged/not in good condition.	3.11
12	Minor leaching in the gallery/ body of dam.	3.12
13	V – notches/ measuring devices are not in working condition/ silted /damaged/ not provided.	3.13
14	Mosquito net door is to be provided to avoid entry of reptiles in the gallery.	3.14
15	Damage to natural slope protection works,guniting damaged/washed out. Wire mesh exposed.	3.15
16	Guide wall/Divide wall/Guide bund/End Sill wall damaged/ Pointing is not in good condition/weep holes not functioning. At some places w.w bar/coping is damaged.	3.16
17	Provision of access to stilling basin/ladder not provided.	3.17
18	EDA ponding with water not possible to Inspect.	3.18
19	Minor erosion/ Scouring/Retrogression/ pot holes in tail channel. Ponding, standing Water in EDA / Tail channel.	3.19
20	Lubrication/painting/minor repairs required for parts of Gates / hoisting Structure/Rubber seal damaged/ replacement.	3.20
21	Approach bridge to intake well / spillway gates railing /flooring plates damaged / need repairs. Need of ladder for inspection well/EDA.	3.21
22	Minor leakages through river sluice/outlet/ gates.	3.22
23	Air vent not periodically cleaned./damaged/closed.	3.23
24	EAP / ROS /GOS /Record drawings/ not provided / not prepared at dam site.	3.24
25	The record of periodical measurements of leakage discharge from dam / relief well is not maintained.	3.25
26	Street light on dam top is not provided/not working.	3.26
27	Security / CC TV camera/entry gate not provided/not working.	3.27
28	Sufficient staff arrangement is not available for security ,instrument readings and measurements and maintenance on dam site.	3.28
29	Fencing around dam is not provided/ damaged due to which unauthorized trespassers are seen.	3.29
30	Communication facilities like mobile wireless, warning devices, telephone is not available at dam site.	3.30
31	Sufficient stock of spares/stationary required is not available at dam site. Storage arrangement not provided at site.	3.31
32	Minor leakages through masonary/ concrete dam body/gallery of dam/outlet well.	3.32

Sr. No.	Deficiencies	Category identifier
33	Security cabin at dam entrance/Irrigation outlets not provided/damaged/needs repair.	3.33
34	Approach channel silted.Trash rack need to be cleaned/ damaged/not provided.	3.34
35	Minor damages to spillway / masonary/ concrete portion of dam/outlet well.	3.35
36	Porous pipes/foundation drains / holes not periodically cleaned.	3.36

1.10 Special Deficiencies

Director general, DTHRS, Nashik has circulated a circular of special deficiencies dated 21/07/2020(सं.प्रा.ज.सं.सु./म.अ.सं.सं./प्रशा/अधि/88/सन2020) to all field offices to attend the above special deficiencies along with periodical inspection report

Statement No-1

Special Attention Deficiencies (Civil), Attached with Pre- Post monsoon Inspection Reports

(Availability of Compulsory Manpower & Documents at dam Site)

Deficiency category	Deficiency
Sp-1	Whether Emergency Action Plan is kept at dam site or not ?
Sp-2	Whether Approved Reservoir Operation Schedule is kept at dam site or not ?
Sp-3	Whether Latest approved gate Operation Schedule is to be kept at dam site or not ?
Sp-4	Whether Record Drawings sets are kept at dam site / section / Sub Divn. office or not ?
Sp-5	Whether Standard Operating Procedure copy with Updated contact numbers of all concerned authorities are kept at dam site or not ?
Sp-6	Whether Chart showing location of rain gauges / river gauges on U/s catchment & approximate travel time of discharge is maintained & displayed at dam site.
Sp-7	If CCTV is established, how observations are done round the clock & who is responsible person to observe these.
Sp-8	Whether Sufficient arrangement of staff is available or not. Engineers / Operators / Electrician / Watchmen / Security etc. and also staff for instrument reading, measurement &maintenance. They may be Govt. employee or through outsourcing. This staff is especially compulsory during monsoon period.
Sp-9	Whether Communication facilities like mobile, wireless, warning devices, telephone are available at dam site, or otherwise.
Sp-10	Whether The record of periodical measurements of leakage discharge from dam / relief well etc. is maintained or not.
Sp-11	Is there any profuse growth of bushes or trees over any portion of dam ?

Statement No-2

Special Attention Deficiencies (Mech & Elect), Attached with Pre- Post monsoon Inspection Reports

(Compulsory Minimum repairs, For Spillway Gates & Gallery)

Deficiency category	Deficiency
Sp-12	Whether Wire ropes of hoist are in good condition/hoisting structure damaged/cracked ?.
Sp-13	Whether Alternative power system- Stand by two Generators for gate operation are working properly or not ?
Sp-14	Whether the **o**peration of all gates is smooth or needs repair ?.
Sp-15	Whether Lubrication/ painting/ minor repairs for parts of Spillway Gates and Hoisting structure are carried out or not ?.
Sp-16	Whether Rubber seals of gates are damaged or needs replacement ?.
Sp-17	Due date of painting of each part should be displayed on dam site as per mechanical maintenance schedule
Sp-18	Whether Electric cable / wiring / lights etc are in working condition are not ?
Sp-19	Whether gallery is having excessive leakages ?

1.11 Standard Procedure For Confirmation And Removal of Category-1 Deficiency of Dams

A systematic approach and working methodology is very essential to monitor the safety aspects of the dams.

During the scrutiny of Pre and Post Monsoon report or during DSO test Inspection whenever it is found that the deficiency is of Category-I, it will be immediately communicated to concern SE and CE.

Concerned SE /CE should immediately visit the dam and should satisfy himself that the deficiency pointed out is a major deficiency which may lead to failure of dam and should confirm to the DSO, Nashik regarding the classification of deficiency as per his opinion.

After conformation from Field Chief Engineer it will appear in ADHSR.

Remedial Measures for Category-I deficiency removal shall be undertaken immediately. And after completion of physical work of deficiency removal, Concern Chief Engineer should communicate status to DSO, Nashik immediately.

1.12 National Register of Large Dams (NRLD) :

Dams having Height above 10 meter are classified as per the norms of International Commission on Large Dams (ICOLD).

NRLD is consists of information of Large Dams as per 20 columns proforma covering information regarding salient features.

NRLD is updated in every January. Hence Field offices need to submit the information of new dams every year to DSO by December to incorporate it in NRLD. The response regarding submission of NRLD information from field offices is very poor, it is always observed that DSO officials has to take rigorous follow up to obtain requisite information.

1.13 Point of Attention :

General	Details
Inspection details	1) The periodical inspection reports of all the dams shall be sent in original instead of carbon or xerox copy. (Signed copy shall be emailed in advance to DSO. 2) Ambiguous or incomplete replies shall be avoided. It is necessary to check point wise replies, which should clear and self explanatory. 3) The deficiencies observed frequently since long shall be deleted after verification of rectification work. 4)The inspecting officer is advised to write the word “special attention” in inspection report against all such items wherever immediate attention is necessary from concerned field officer in charge of dam from safety point of dams and life & property on the downstream & would be useful for identifying categorization of deficiencies in Dam Safety Organization, Nashik. 5) The information in Appendix II (Performance of meteorological instruments installed) and Appendix III (performance of taking observation of instruments installed in large dams) shall be filled properly and complete. 6) The compliance of rectification work of deficiencies of each dam mentioned in status report shall be communicated to Dam Safety Organization, Nashik every year so that this can be included in the Action Taken Report Part-I of status report.
Salient features	1) Due care shall be taken while filling the salient features of dam and information regarding N.C.D.S. documents. 2) Date of inspections is not mentioned in some Pre / Post Inspection Reports. This is mandatory since it will reflect in the Annual health status report.
Dam and Dam reach (Embankment)	1) If the existing dam section is found under section as compared to the design section during inspection then the work of re-sectioning shall be carried out and opinion of inspecting officer shall be stated in inspection report. 2) The extent of embankment settlement shall be furnished with its measurement & Reduced Distance (R.D.) and it shall be with compared designed cross section.
Gallery / Shaft Drainage (Concrete / Masonry)	The monolith wise quantum of leaching in galleries and all type of leakages in dam shall be noted in inspection report.
Spillway and Energy Dissipation Structure	The quantum of retrogression/scouring in tail channel shall be given in inspection report.
Hydro-Mechanical Component and Turbine/Pump	The trial of spillway gates shall be carried out before monsoon every year & observed condition shall be mentioned in inspection report.
Instrumentation	It is observed that the information regarding number of instruments installed does not tally for pre & post monsoon inspection report of the same dam. In some cases it is observed that the list of instruments given in previous year do not appears in the current year. These discrepancies should be avoided.

Part-2

Action Taken Report

Part-2: Action Taken Report (ATR)

2.1 General :

Annual Dam Health Status Reports (ADHSR) of Dams for Year 2020-21 was published by Director General, DTHRS, MERI, Nashik in June 2021 and submitted to Govt. of Maharashtra and also circulated to all Field Offices ranging from Divisions to Corporations for information and carrying out remedial measures.

It is expected that Field Officers should go through the Status Report scrupulously and attend remedial measures on priority basis and submit Action Taken Report (ATR) for reflecting necessary repairs & attention given for maintaining safety of Dams in the ADHSR.

2.2 ATR Submitted by Field Offices:

In this region there are Government owned 69 Class-I & 193 Class-II Dams & Private owned 07 Class-I & 10 Class-II.

As per ADHSR 2020-21 Action Taken Report was expected from Government owned 54 Class-I Dams & 69 Class-II Dams & Private owned 3 Class-I & 4 Class-II Dams.

However Action Taken Report were received from Government owned 25 Class-I Dams & 5 Class-II Dams & Private owned 0 Class-I Dams & 0 Class-II Dams. *[Ref. Table 2.1, 2.2 & 2.3]*

2.3 Action Taken Report of Class-I & Class-II Dams (Government & Private Owned)

	Category	Total Dam				ATR received				Physically fully completed						Physically partly completed					
	Class	I		II		I		II		I		II		%		I		II		%	
	No. of	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency
	Category 1																				
1	**WRD**	Nil																			
2	**Private**																				
	Category 2																				
3	**WRD**	54	445	69	147	25	183	5	9	1	43	1	1	6.66	22.9	17	31	1	1	60	16.66
4	**Private**	6	8	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	**60**	**453**	**74**	**157**	**25**	**183**	**5**	**9**	**1**	**43**	**1**	**1**	**6.66**	**22.9**	**17**	**31**	**1**	**1**	**60**	**16.66**

2.4 Conclusions :

Out of 54 Class I dams ATR of 29 dams are not received in DSO. Also Out of 69 Class II Dams ATR of 64 dams are not received. After scrutiny of ATR received it is concluded that only 6.66% dams and 22.91% deficiencies are physically fully completed. And 60% dams and 16.66% deficiencies are physically Partly completed. Field officers & higher Authorities shall take note of this seriously.

2.5 Points of Attention:

A) Government & Private Owned Dams :

Sr. No.	Expected ATR in DSO	Received in time in DSO		Even after follow up by DSO		ATR were not received	
		Number	%	Number	%	Number	%
1	610	192	31.47	0	00.00	418	68.53

1. ***Concerned Chief Engineer should monitor and instruct field Superintending Engineer & Executive Engineer regarding submission of ATR to DSO, Nashik to reflect exact status of Dam Safety works. Otherwise whole exercise of publishing ADHSR will be futile.***

2. ***Concerned Dam owner should give serious attention regarding submission of ATR to DSO, Nashik to reflect exact status of Dam Safety works. Otherwise whole exercise of publishing ADHSR will be futile.***

Table - 2.1

Consolidated Abstract of Status of Compliance of Category-1 Deficiencies in ADHSR-2020-21

Sr.No	Agency	Dams & Deficiencies						Status of Deficiencies removal as per compliance report received in DSO, Nashik																					
		Class-I Dam		Class-II Dam		Total		Physically fully completed						Physically partly completed						Administrative action initiated						Compliance report not received in DSO					
								Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total	
		No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1	No. Of Dams	No. of Def. Cat -1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
----------NIL----------																															

Table - 2.2

Consolidated Abstract of Status of Compliance of Category-2 Deficiencies in ADHSR-2020-21

Sr. No	Agency	Dams & Deficiencies						Status of Deficiencies removal as per compliance report received in DSO																					
		Class-I Dam		Class-II Dam		Total		Physically fully completed						Physically partly completed						Administrative action initiated						ATR Not Received in DSO					
								Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total	
		No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
A) C.E. W.R. Pune																															
1	P.I.C., Pune	15	149	16	28	31	177	0	18	1	1	1	19	5	3	1	1	6	4	1	37	1	4	2	41	9	91	13	22	22	113
2	P.I.P.C., Pune	2	27	0	0	2	27	0	4	0	0	0	4	1	12	0	0	1	12	0	0	0	0	0	0	1	11	0	0	1	11
3	S.I.C., Sangli	2	3	15	24	17	27	0	1	0	0	0	1	1	0	0	0	1	0	1	2	2	3	3	5	0	0	13	21	13	21
4	S.I.C, Satara	6	52	14	59	20	111	0	6	0	0	0	6	3	4	0	0	3	4	2	32	0	0	2	32	1	10	14	59	15	69
5	K.I.C., Kolhapur	11	66	11	11	22	77	1	14	0	0	1	14	7	12	0	0	7	12	3	38	0	0	3	38	0	2	11	11	11	13
B) C.E. S.P. Pune																															
6	K.I.C. Pune	8	91	5	10	13	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	91	5	10	13	101
7	SIPC, Satara	7	32	1	4	8	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	32	1	4	8	36
8	CADA Solapur	2	16	5	8	7	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	16	5	8	7	24
9	O.I.C., Osmanabad	1	9	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	0	0	1	9
10	SE BCC Solapur	0	0	2	3	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	3
Government Total		**54**	**445**	**69**	**147**	**123**	**592**	**1**	**43**	**1**	**1**	**2**	**44**	**17**	**31**	**1**	**1**	**18**	**32**	**7**	**109**	**3**	**7**	**10**	**116**	**29**	**262**	**64**	**138**	**93**	**400**

Sr. No	Agency	Dams & Deficiencies						Status of Deficiencies removal as per compliance report received in DSO																					
		Class-I Dam		Class-II Dam		Total		Physically fully completed						Physically partly completed						Administrative action initiated						ATR Not Received in DSO					
								Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total		Class-I Dam		Class-II Dam		Total	
		No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2	No. Of Dams	No. of Def. Cat -2
Private																															
1	Sahara India	3	4	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	3	4
2	KMC Kolhapur	0	0	2	3	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	3
3	INS	0	0	2	6	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	2	6
4	Kagal Nagar Parishad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Private Total	**6**	**8**	**5**	**10**	**11**	**18**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**8**	**5**	**10**	**11**	**18**
	Grand Total	**60**	**453**	**74**	**157**	**134**	**610**	**1**	**43**	**1**	**1**	**2**	**44**	**17**	**31**	**1**	**1**	**18**	**32**	**7**	**109**	**3**	**7**	**10**	**116**	**35**	**270**	**69**	**148**	**104**	**418**

Table - 2.3

Dams for which Compliance Report not received in DSO

Sr. No.	Compliance Report not Received	Total Number of Dam	Sr. No.	Compliance Report Not Received	Total Number of Dam
1	2	3	4	5	6
Class-I Dams				**Class-II Dams**	
A) Chief Engineer, Water Resources Department, Pune			**A) Chief Engineer, Water Resources Department, Pune**		
I) Superintending Engineer, Pune Irrigation Circle, Pune.			**I) Superintending Engineer, Pune Irrigation Circle, Pune.**		
1) Executive Engineer, Pune Irrigation Division, Pune			**1) Executive Engineer, Pune Irrigation Division, Pune**		
NIL			NIL		
			2) Executive Engineer,Khadakwasla Irrigation Division, Pune		
			1.	Bhugaon	5
2) Executive Engineer, Khadakwasla Irrigation Division, Pune			2.	Matoba	
1.	Khadakwasla	4	3.	Malad	
2.	Panshet		4.	Palasdeo	
3.	Pavana		5.	Shirsuphal	
4.	Varasgaon		**3) Executive Engineer,Nira Right Bank Canal Division, Phaltan**		
3) Executive Engineer, Chaskman Irrigation Division, Pune			1.	Naigaon	3
1.	Chaskman		2.	Mhasavad	

2	Aralkalmodi	3	3.	Banganga	
3	BhamaAskhed				
			4) Executive Engineer,Lift Irrigation Management Div, Pune		
4) Executive Engineer,Nira Right Bank Canal Division, Phaltan			1.	Pilanwadi	2
1.	Veer	2	2.	Garade	
2	Nazare				
			5) Executive Engineer, Chaskman Irrigation Division, Pune		
			1.	Nimgaon Mhalungi	3
			2	Dahiwadi	
			3	Kadus	
II) Superintending Engineer, Pune Irrigation Project Circle, Pune			**II) Superintending Engineer, Sangli Irrigation Circle, Sangli**		
1) Executive Engineer, Nira Deoghar Project Division, Sangvi, Pune.			**1) Executive Engineer, Sangli Irrigation Division, Sangli.**		
1.	Gunjawani	1		NIL	
III) Superintending Engineer, Sangli Irrigation Circle, Sangli					
1) Executive Engineer, Sangli Irrigation Division, Sangli.					
	NIL		**2) Executive Engineer, Tembhu Lift Irrigation Management Division,Ogalewadi, Karad.**		
IV) Superintending Engineer, Satara Irrigation Circle, Satara.			1.	Biddhihal	12
1) Executive Engineer, Satara Irrigation Division, Satara.			2.	Dighanchi	

<table>
<tr><td colspan="3" rowspan="4">NIL</td><td>3</td><td>Atpadi</td><td rowspan="12"></td></tr>
<tr><td>4</td><td>Ghanand</td></tr>
<tr><td>5</td><td>Kadegaon</td></tr>
<tr><td>6</td><td>Karandewadi</td></tr>
<tr><td colspan="3" rowspan="2">2) Executive Engineer, Koyna Irrigation Division, Koyananagar</td><td>7</td><td>Morale</td></tr>
<tr><td rowspan="5">1..</td><td rowspan="5">Kolkewadi</td><td rowspan="3">1</td><td>8</td><td>Nimbhavade</td></tr>
<tr><td>9</td><td>Pare</td></tr>
<tr><td>10</td><td>Vejegaon</td></tr>
<tr><td rowspan="3"></td><td>11</td><td>Walunj</td></tr>
<tr><td>12</td><td>Jambhulani</td></tr>
<tr><td colspan="3">3) Executive Engineer, Krishna Irrigation Division, Satara</td><td colspan="3">3) Executive Engineer, Minor Irrigation Division, Sangli</td></tr>
<tr><td colspan="3" rowspan="2">NIL</td><td>1.</td><td>Mahadikwadi</td><td>1</td></tr>
<tr><td colspan="3">Executive Engineer, Kolhapur Irrigation Division(N), Kolhapur</td></tr>
<tr><td colspan="3" rowspan="6">NIL</td><td>1</td><td>Drayachi vadgaon</td><td rowspan="5">5</td></tr>
<tr><td>2</td><td>Kasarde</td></tr>
<tr><td>3</td><td>Kumbhavade</td></tr>
<tr><td>4</td><td>Padsali</td></tr>
<tr><td>5</td><td>Pombre</td></tr>
<tr><td colspan="3">Executive Engineer, Kolhapur Irrigation Division(S), Kolhapur</td></tr>
<tr><td colspan="3" rowspan="3"></td><td>1</td><td>Dindalkop</td><td rowspan="3">6</td></tr>
<tr><td>2</td><td>Kitwad 1</td></tr>
<tr><td>3</td><td>Kumari</td></tr>
</table>

			4	Shendri	
			5	Sundi	
			6	Yenechevandi	
			III) Superintending Engineer, Satara Irrigation Circle, Satara		
			1) Executive Engineer, Krishna Irrigation Division, Satara		
B) Chief Engineer, Water Resources Department (SP), Pune			1.	Kankatrewadi	
I) Superintending Engineer, Kukadi Irrigation Circle, Pune			2.	Thoseghar	
1) Executive Engineer, Kukadi Irrigation Division No.1, Narayangaon			3.	Ner	
1.	Manikdoh		4.	Pingli	
2.	Dimbhe		5.	Yerelwadi	
3.	Pimpalgaon Joge		6	Jambhulani	13
4.	Vadaj		7	Mayni	
5.	Yedgaon		8	Ranand	
			9	Andhali	
		5	10	Arabwadi	
			11	Daruj	
			12	Mhasalwadi	
			13	Dhakani	
			2) Executive Engineer, Koyna Irrigation Division, Koyananagar		
			1.	Chaphal	1
			B) Chief Engineer, Water Resources Department (SP), Pune		
2) Executive Engineer, Kukadi Irrigation Division No.2, Shrigonda.			**I) Superintending Engineer, Kukadi Irrigation Circle, Pune**		

1.	Ghod	2
2.	Sina	
3) Executive Engineer, Dimbhe Dam Division, Manchar.		
1.	Chillewadi	1
Superintending Engineer, SIPC, Satara		
Executive Engineer, Minor Irrigation Division, Satara.		
1	Nagewadi	5
2	Morna	
3	Pangare	
4	Kalgaon	
5	Kusawade	
II) Superintending Engineer, CADA, Solapur.		
1.	Ujjani	2
2.	Ekrukh	
PRIVATE DAMS		
SAHARA India (Ambey Valley) Limited Pune		

1)Executive Engineer, Kukadi Irrigation Division No.1, Narayangaon		
1.	Ramjewadi	5
2.	Anepedara	
3	Otur waghdara	
4	Ghangaldara	
5	Uchhil	
II) Superintending Engineer, CADA, Solapur.		
1) Executive Engineer, Solapur Irrigation Division, Solapur		
1.	Kazikunbus	4
2.	Rajuri	
3	Hingani	
4	Mangi	
2) Executive Engineer, Bhima Development Division No.2, Solapur		
1.	Ashti	1

1	Ambavane	3	
2.	Kolavali		
3	Visakhar		
Tata Power Ltd,Pune			
1	Thokarwadi		
2	Walvhan	3	**III) Superintending Engineer, Bhima Canal Circle,Solapur**
3	Shirwata		**1) Executive Engineer, Minor Irrigation Division No.1, Solapur**
			1. Babhulgaon — 1
			Pimplagaon Dhale — 1
			III) Superintending Engineer, Satara Irrigation Project Circle,Satara
			1) Executive Engineer, Minor Irrigation Division, Satara
			1 Mahind — 1
			PRIVATE DAMS
			1) Kolhapur Municipal Corporation,Kolhapur
			1 Rankala — 1
			2. Kalamba — 1
			3) INS Shivaji , Lonavala
			1. New Shivsagar — 2
			2 Old shivsagar

Table 2.4

ATR on Category-1 Deficiency in Class-I Dams

Sr.No	Dam Features	Date of Inspection	Main component of Dam	Observation / Significant Deficiencies Noticed	Remedial Measures Suggested	Implimentation Status
1	2	3	4	5	6	7
---------- NIL ----------						

Table 2.5

ATR on Category-2 Deficiency in Class-I Dams

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
[A]Chief Engineer (W.R.), Water Resources Department, Pune							
(1) Superintending Engineer, Pune Irrigation Circle, Pune							
(a) Executive Engineer, Pune Irrigation Division, Pune 1							
1	Name :**Bhatghar** (Gated) Tal. BhorDist.Pune Year of completion :**1926** Location : Longitude **73^{0}52'** Latitude **18^{0}11'** Height :**57.62 m** Gross Capacity : 672.**65 Mm^3** Spillway capacity:**1600 m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH**0048	12.05.2020 28.10.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Gallery Body Wall EDA Spillway	1. There is no proper ventilation & lighting & handrails arrangement.(A8) 2. Problems of inadequate drainage-Clogged porous pipes. The proper arrangements are not made for the measurement of seepage into the gallery. (A8) 3. The total seepage into gallery from the porous pipes in the dam at lake full condition - 8.50 LPS @ FRL (A10) 4. There been considerable leaching observed from the seepage water and deposition of line near the seepage exit spots. (A12) 5. The existing pointing on U/S side is in lime mortar and it seems to be slightly weak (broken / washed out). (B8)	Repairs should be carried out. Proper arrangement should be made for the measurement of seepage into gallery. Repairs should be carried out in consultation with Mechanical Organization. It should be kept under observation & leaching material should be sent to MERI, Nashik Lab for testing. Necessary repairs shall be carried out. Necessary remedial measures should be carried out.	Work Planned to be rectified in year 2021-2022 Porous Pipes are cleaned Arrangements for seepage discharge will be made. Porous pipes are Cleaned. After monsoon leaching material will be sent to Meri Nasik. The work is proposed to carried out under DRIP-II programmed

					6. Due to erosion in central spillway stilling basin, pond cannot be drained automatically below the adjacent nala bed level.(A14)	Necessary remedial measures should be carried out.	The work is proposed to carried out under DRIP-II programmed
				Spillway Gate	7. Some portion of right side guide wall of south spillway is broken and damaged at ground level. (A16)	Necessary repair should be done.	Necessary Repairs are carried Out.
				Crest of Dam	8. D/S face @ south spillway needs grouting with epoxy pointing repairing. (B7)		Pointing work is completed.Grouting work will be taken in hand in2021-22
				End Weir Outlet	9. Due to rust, there are small holes to gate no. - 3, 5, 10 & 13 of south & 11, 12, & 13 of central spillway observed. (B11)	Necessary remedial measures should be carried out.	Such holes are closed by provding additional M..S.Plates by welding.
				General	10. Nut bolts of guide frame are not in good condition & need to be replaced. Due to missing or loose bolts, there are leakages. Conservator mesh of gates is broken. (B12)	Necessary remedial measures should be carried out.	This work will be taken in hand in 2021-22
					11. Pointing on Crest should be done with epoxy material. (B8)	Necessary remedial measures should be carried out.	This work will be taken in hand in 2021-22
					12. The check wall / end weir is damaged & erosion is observed at D/S of End weir.(A17)	Necessary remedial measures should be carried out.	This work will be taken in hand in 2021-22
					13. The vibrations and noise are noticed in	Necessary repair should be done in consultation with IRD,	Mechanical wing is doing necessary

					operation of outlet gates.(B5) 14. Uplift pressure cell & Water stage recorder are not working.(B9	Nasik.	action. This work is Proposed in 2021-22
2	Name :**Vadivale**(Gated) Tal. Maval Dist.Pune Year of completion :**1999** Location : Longitude **73^{0}31'16"** Latitude **18^{0}49'20"** Height :**29.00 m** Gross Capacity: **40.87. Mm^3** Spillway capacity: **746.82m^3/sec** Sr.No.In Large Dam Register 2009: **MH09MH1517**	14.05.2020 30.10.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Waste Weir Bar and Tail Channel Spilllway	1. There is a scouring on downstream side of the bar and/or EDA observed. (A7) 2. The surface of ogee is not smooth & it is not in profile. Big cavities, pot holes are observed on ogee surface. Heavy leakage is observed through body of spillway, through junction of each spillway construction joint. Big cavities are observed and needs rectifications. (B8) 3. Concrete at crest level of spillway is damaged and needs rectifications. (B7) 4. Concrete / masonry deterioration observed. (B7) 5. Significant leakage on spillway glacis observed. (B7) 6. Mild seepage on D/S face of masonry. (A11) 7. Significant leakage at Overflow Section & non-over flow section junction on downstream face. (A15) 8. Deterioration of concrete in ogee	Necessary remedial measures should be carried out. Location & quantum of leakage should be investigate causes of leakage should be ascertained & proper remedial measures to prevent leakages should be carried out. Necessary remedial measures should be carried out Necessary remedial measures should be carried out Necessary remedial measures should be carried out Leakages should be attended in time by providing suitable remedial measures after ascertaining the exact cause of leakage. Necessary remedial measures should be carried	Work is taken in Hand Due to Covid 19 unavailability of labor, progress of work is stopped. Work will be completed by the end of june-2022 Work is taken in Hand.Work of Sr.No.6&7 completed physically and fully .Work of Sr.No.9 Completed Partelly.due to Covid 19 Unavailabilityof Labour ,progress

					portion. (B8) 9. Honeycombing to RBC outlet gate, overflow section & Pier concrete above crest RL. (B5) 10. The heavy leakage observed from wall of intake wells & which is collected in conduit. (B10)	out Leakages should be attended in time by providing suitable remedial measures after ascertaining the exact cause of leakage.	of remaining work stopped. Work will be completed by the end of June2022
3	Name :**Kasarsai**(Gated) Tal. MulashiDist.Pune Year of completion :**1995** Location :**73^{0}40'00"** Latitude **18^{0}35'30"** Height :**36.0 m** Gross Capacity :**17.38** Mm^3 Spillway capacity : **933.00 m^3 /sec** Sr.No.In Large Dam Register 2009: **MH09MH1373**	14.05.2020 18.11.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Slope Outlet Downstream Face Energy Dissipation Structure Outlet Gates	1. Wet and slushy patches are observed at ch 300 to 360 m. on downstream slopes when water level is above 626.50m. Boils were observed from ch 300 to 360 at RL 626.50 to 626.61 m (A1) 2. Leakages are observed through divide wall and outlet of LBC& RBC upto 1 to 2 cusec. (A15) 3. Mild seepage observed on d/s face	This deficiency should be kept under observation and after confirmation by competent field authority, if necessary repair should be carried out in consultation with CDO, Nashik. Leakage path should be ascertained & necessary repairs to reduce leakage should be carried out. Both rubber seals need to be changed. Necessary remedial measures should be carried out. Necessary remedial measures should be carried out. Necessary repairs should be carried out in consultation	1)The size of those observed Boils is not increasing. The portion of the dam from ch.300to 360m is kept under strict supervision. Estimates under Special repairs work will be prepared Remedial work will be carried out after getting approval. 2) Repair work for Small leakages through divide wall and outlet of LBC will be included in annual maintenance & repair programmed after approval from competent authority repair work will be carried out 3)Works for minimize wet spots

					of masonry. (A11)	with Mechanical Organization.	treatment in the dam body will be included in annual Maintenance and repair Programmed After approval from competent authority repair work will be carried out.
					4. Concrete/masonry deterioration (B8)	Necessary remedial measures should be carried out.	4)Repairs will be carried in annual maintenance
					5. The under drainage of the stilling basin (or bucket) is not satisfactory. All the open drain holes are not clear and functioning well. (A14)	Necessary remedial measures should be carried out.	5)Work of cleaning open drain holes is proposed in M&R Programmed.
					6. The surface of gates and the paints is deteriorated. (B11)	Necessary repairs should be carried out in consultation with Mechanical Organization	6) The work is completed by Mechanical wing.
4	Name :M.I.Tank **Jadhavwadi** (Gated) Tal. MavalDist.Pune Year of completion :**2001** Location :**73^{0}43'00"** Latitude **18^{0}47'00"** Height :**35.52 m** Gross Capacity :**12.03** Mm^3 Spillway capacity : **664.14.00 m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH1587**	14.05.2020 18.11.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Spillway Outlet Gates U/s slope Crest of	1. The obstructions observed in or immediately downstream of the spillway.(A17) 2. The full length of the wire rope of the hoist is not in serviceable condition.(A18) 3. The rollers are not well lubricated.(A20) 4. The stem rods for	Necessary remedial measures should be carried out. Necessary repairs should be carried out in consultation with Mechanical Organization.	1)Repair work will be included in annual maintenance & repair programmed after Approval from competent authority repair work will be carried out Sr.no.2,3,&4 The work is completed by Mechinical Wing

				Dam U/s Face WW Bar	lifting the gates are not perfectly straight. (B5) 5. Concavity appears from ch.480 m. to 545 m. and between ch.810 m. to 980 m. on U/S slope & pitching settled down. (B3) 6. There are signs of excessive and/or uneven settlement between ch. 400 to 700 & Ch. 850 to 990.(B3) 7. Pitching settlement in between chainage 480 to 545 m and Ch 810 to 980 m.(B15) 8. Coping of spillway bar is damaged. (B7)	Necessary repairs should be carried out. in consultation with Mechanical Organization Necessary remedial measures should be carried out. Necessary remedial measures should be carried out	Sr.No.5,6,&7 Estimate Under irrigation rehabitation repair work is prepared &will be submitted to competent authority for approval .Remedial work will be carried out after getting approval from competent authority. 8) Work Planned to be taken under regular M&R during 2021-2022
5	**Name :NiraDevghar (Gated)** Tal. BhorDist.Pune Year of completion :**2007** Location :**73^{0}43'36"** Latitude **18^{0}06'18"** Height :**58.525m** Gross Capacity :**337.39** Mm^3 Spillway capacity :**1852.00 m^3 /sec** Sr.No.In Large Dam Register 2009: **MH09HH1554**	12.5.2020 28.10.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	WW Bar Gallery Outlet Body Wall General Downstream Drainage	1. There is scouring in central spillway stilling basin and concrete filling is proposed to prevent further scouring.(A7) 2. Guide wall beyond Check Weir is damaged(A16) 3. Problems of inadequate drainage - 29 Clogged porous pipes out of 48 nos.(A9) 4. The total seepage into gallery from the porous pipes in the dam on 28.10.2020 - 37.50 LPS @ (A11)	Necessary remedial measures should be carried out. Necessary remedial measures should be carried out. Necessary repair should be done.	Repair work will be included inannual Maintenance & repair programmed After approval from competent authority repair wprk will be carried out. The work is completed in 20210-21 The work is completed in 20210-21 The pours pipes are cleaned

					5 The energy dissipation arrangement is not working satisfactorily - Bed concrete is disturbed.(A14)		The work is completed in 20219-20
					6 Cumulative seepage in the body of the dam collected in gallery is measured, seepage water 35LPS@FRL	Necessary remedial measures should be carried out.	Though dam is earthen after stable stage seepage is minimized
					7 Leaching @ some extent is noticed.(A12)	Necessary remedial measures should be carried out.	Leaching material is removed from gallery
					8 The Plumb bomb, Uplift pressure cell &Piezometer pressure cells are not working.(B9)	Necessary repair should be done in consultation with IRD, Nashik.	The plumb bob ,Unlift pressure cell & Piezometer pressure cells are repaired in 2020-21
					9 The exposed drains at ch 100, 410 to 510 &ch 1000 to 1100 are working satisfactorily. In remaining chainages flow not observed.(B2)	Necessary remedial measures should be carried out.	The work is completed in 20210-21
6	**Name-Andravalley (Ungated)** Tal.Maval Dist.Pune Year of completion :**2003** Location :**73^{0}39'00"** Latitude **18^{0}20'00"** Height :**34.50m** Gross Capacity :**83.31** Mm^3 Spillway capacity :**3021.00 m^3 /sec** Sr.No.In Large Dam Register 2009: **MH09HH1622**	14.05.2020 18.11.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Gallery	1. Foundation gallery not accessible due to flooding during inspection.(A8)	Necessary remedial measures should be carried out	1) Work of dewatering gallery is done for inspection of foundation gallery.
					2. Excessive seepage/sweating along gallery/shaft observed. (A10)	Necessary remedial measures should be carried out	2) Work of grouting for minimize seepage /sweating along the gallery will be included in annual maintenance

							and repair programmed After approval from competent authority repair work will be carried out
				Spillway Outlet Gates Outlet	3. Seepage through porous pipes, foundation drains & monolith joints collected in Gravity chamber @ D/s of EDA.(A10) 4. Significant or excessive leakage along gallery/shaft/porous drain observed.(A10) 5. Almost all porous pipes in inspection gallery are blocked.(A9) 6. Concrete / masonry deterioration (B8) 7. Significant leakage on downstream face observed. (A10) 8. Light sweating observed at foundation gallery.(A11) 9. The surface of gates and the paints is	Necessary remedial measures should be carried out Necessary remedial measures should be carried out Necessary remedial measures should be carried out in consultation with mechanical organization. Necessary remedial measures should be carried out	3) Necessary action is in progress 4)No Excessive Leakage 4)Work of cleaning porous pipes will be included in annual Maintenance and repair programmed after approval from competent authority repair work will be carried out. 6)There is no deterioration to Concrete /masonry 7)There is no significant leakage on downstream side Estimates are prepared for this work .The repair work will be included in

					deteriorated (B11) 10. Wire ropes required to be changed. (A18) 11. (1) Service gate & (2) Emergency gate - Leakages is observed through rubble seals. It requires to be changed. Electric wiring and electric motor requires to be repaired. (B5)	Necessary remedial measures should be carried out in consultation with mechanical organization	annual maintenance & repair programmed and After approval from competent authority repair work will be carried out.
(b) Executive Engineer ,Khadakwasala Irrigation Division, Pune 11							
7	Name :**Panshet** (Gated) Tal. Velhe Dist.Pune Year of completion :**1972** Location : Longitude **73^{0}37'** Latitude **18^{0}22'** 5Height :**63.56 m** Gross Capacity :**303 Mm^3** Spillway capacity :**1162.0 m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH0310**	13.05.2020 17.11.2020	Shri.S.D. Chopade, S.E., P.I.C., Pune	Body Wall Instrumentation Spillway Gates	1. There has been considerable leaching from the seepage water and deposition of lime near the seepage exit spots. (A12) 2. Piezometers are out of order.(B9) 3. The damage or wear caused to the seal plates observed. (B12) 4. The seepage flow is measured on 17.11.2020 is 101.0 LPS 5. There is retrogession observed due to redamialodial basalt at depth of 1 to 2m)	It should be kept under observation & leaching material should be sent to MERI/ Lab for testing. Necessary repair should be done in consultation with IRD, Nashik. Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out	Not Received
8	Name:**Khadakvasala**(Gated) Tal. Haveli Dist.Pune Year of completion :**1879** Location : Longitude **73^{0}45'** Latitude **18^{0}25'** Height :**32.92 m**	13.05.2020 17.11.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Drainage Junction of Earth work with	1. Standing pool observed on D/S of Dam at Ch 1/066 to 1/095 m. (A2). 2. The seepage is observed from outlet	Suitable drainage arrangement should be done to drain out the water. Seepage & sweating be monitored and necessary remedial measures be taken.	Not Received

	Gross Capacity :**86 Mm^3** Spillway capacity :**2755 m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH0013**			Masonry sections and outlets W.W & TC End Weir EDA Outlet Gates Instrumentation General	provided at ch. 0/035 to 0/040m and 0/060 to 0/150m (A11). 3. The scouring observed on downstream side of the bar and/or EDA. (A17) 4. The coping over the spillway bar is not in good condition.(B7) 5. The erosion and damages observed on the concrete or masonry surface. 6. The scour noticed on the immediate downstream. (A17) 7. Some friction blocks are damaged. (A14) 8. The concrete surface of the stilling basin and apron (or bucket) is not in good condition. (A14) 9. The stem rod for lifting the gates is not perfectly straight. (B5) 10. Only Pan Evaporimeter is in working condition, Piezometer & Water Stage Recorder are out of order. (B9) 11. All the registers of observations posted are not up-to-date.(B10)	It should be kept under observation and verification of competent authority remedial measures should be taken if necessary. It should be repaired properly. Proper remedial measure should be taken and scouring should be monitored & prevent the further scouring. Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs shall be done in consultation with IRD, Nashik.	
9	Name :**Warasgaon**(Gated) Tal. VelheDist.Pune Year of completion :**1972** Location : Longitude **$73^0$37'**	13.05.2020 17.11.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Gallery/Shaft Condition	1. Excessive seepage/sweating at M6, M11, M12, M13 observed along	Seepage & sweating be monitored and necessary remedial measures be taken.	Not Received

	Latitude **$18^0$23'** Height :**63.40 m** Gross Capacity **: 374.00 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH0592**			Gallery	gallery/shaft (A10)	Necessary repairs should be carried out	
					2. Some drain holes in gallary are chocked (A9)		
				Dam body	3. Foundation holes are not cleaned periodically. (A9)	Seepage & sweating be monitored and necessary remedial measures be taken.	
					4. There is excessive seepage sweating at the monolith no. 8, 9, 10 &12 on the downstream face of the dam.(A11)	Necessary repairs should be carried out	
				Downstrea m Face	5. There is no pointing on upstream face of the dam. (B8)	Necessary repairs should be carried out out in consultation with Mechanical Organization.	
					6. Considerable leaching from seepage water and deposition of lime near the seepage exit spots.(A12)		
				Tail Channel &WW Bar		It should be kept under observation and necessary remedial measure to be taken	
					7. Erosion of foundation of end weir at stilling basin observed (A16)	by permission of field competent authority.	
						Necessary repairs should be	
					8. The leakages observed through divide wall. (location-foundation gallery's cross drain) (A16)	carried out.	
				Downstream Drainage			
					9. The damages to guide walls, divide wall and other appurtenantsobserve d.(A16)	Drain holes should be cleaned.	
						Necessary repairs should be carried out.	
				Energy Dissipation Structure			
					10. The portions of longitudinal toe drain and exposed cross	Necessary repairs should be	

					drains beyond the downstream toe of the dam is not in regular section and freely draining (B2)	carried out.	
				Instrumentation	11. The concrete surface of the stilling basin and apron (or bucket) is not in good condition. (A14) 12. D/s foundation erosion at the end of stilling basin observed. (A16) 13. The foundation erosion of end wall observed. (A16) 14. Piezometer & Water Stage Recorder are out of order. (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.	
10	Name :**Pawana** (Gated) Tal. BhorDist.Pune Year of completion : **1972** Location : Longitude **73^{0}40' 30** Latitude **18^{0}21 30'** Height : 42.37 m Gross Capacity : 305 Mm^3 Spillway capacity:1250 m^3/sec Sr.No.In Large Dam Register 2009: **MH09HH** 0311	13.05.2020 30.10.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Drainage Gallery	1. Toe drains & cross drains are not freely draining.(B2) 2. Toe drain repair work is in progress. (B2) 3. There has not been substantial progressive reduction in the seepage through the foundations. (Number of drain holes cleaned not mentioned.) (A9) 4. Water jet observed inside on right side	Drain holes should be cleaned. Necessary repairs should be carried out. Drain holes should be cleaned. Proper remedial measure should be taken and scouring	Not Received

					drainage gallery from sides and roof. (A10)	shall be monitored & prevented further scouring.	
				Downstream Face Spillway	5. Water jet observed inside on right side drainage gallery from sides and roof. (A10)	Necessary repairs should be carried out.	
					6. L & R side both galleries leakages, (A10)		
				End Weir	7. Seepage flow as on 30.10.2020 -1362 lpm	Necessary repairs should be carried out.	
					8. Mild sweating observed on d/s face of masonry. (A11)		
					9. At some places concrete superficial layer deteriorated in opening span of gate no. 1 & 3 at bottom part touching to stilling basin.(B8)	Necessary repairs should be carried out.	
				Downstream Face	10. The erosion, pitting or spalling of the concrete or masonry surface observed. (A17)	Necessary repairs should be carried out.	
				General	11. The damage to end weir on right side junction to guide wall for about 10m length. UCR stones washed away on d/s face of end weir creating cavity. Water is coming out from loosened UCR of end weir. (A17)	Proper remedial measures to be taken in consultation with Mechanical Organization.	
					12. Mild sweating observed on d/s face of masonry. (A11)		
					13. The alternative power system for gate operation is not working properly.		

					(A19) 14. Piezometer & Uplift Pressure Cells are yet to be installed. (B9) 15. **Spillway Gates** - Minor leakage at sill of gate no. 6, when totally lowered. (B12)		
(c) Executive Engineer ,Chaskaman Irrigation Division, Pune 11							
11	Name :**Chaskaman(**Gated) Tal. KhedDist.Pune Year of completion :**1999** Location : Longitude **73^{0}47'** Latitude **18^{0}57'** Height :**46.28 m** Gross Capacity :**241.69Mm^3** Spillway capacity **: 2860 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1522**	15.05.2020 18.10.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Drainage Gallery/Shaft and Drainage End Weir	1. Boils are observed @ RD 800m d/s 180m; Boils are observed @ 860m, d/s 285m in existing well left side. (A1) 2. In the d/s of dam @ ch 860m downstream 285m, standing pool of water observed. (existing well) (A2) 3. Toe drains and cross drains are not working satisfactorily. (B2) 4. Gallery remains flooded due to heavy leakages through porous pipe. (A8) 5. Some porous drains and foundation drain holes are not in working condition. (A9) 6. Total 71 drain holes are choked. (A9) 7. The foundation drain holes and porous pipes are not periodically cleaned. (A9). 8. Lighting arrangement has been destroyed and heavy leakages in inspecting gallery. (A10) 9. Excessive seepage	Cause of boils may be treated; check the drainage arrangement function of Long, cross, toe drains and then proper remedial measures shall be carried out. The downstream area from toe shall be free from slushy condition by draining water properly. Proper drainage arrangement shall be provided to drain out water. Proper remedial measures to be taken to reduce leakage & gallery always made available for inspection. It should be kept under observation & leaching material should be sent to MERI/ Lab for testing. Proper remedial measures to be taken to reduce leakage. Confirmation of deficiency needs to be given by field inspecting authority before remedial measures.	Not Received

				Body Wall (Masonry /Concrete) Outlet General Instrumentation	through porous pipe in gallery. (A10) 10. Leachet deposition is observed around the porous pipe in gallery. (A12). 11. There is heavy erosion at the toe of the end wall. (A17) 12. There has been considerable leaching from the seepage water and deposition of lime near the seepage exist spots.(A12) 13. There is no reduction in seepage through pipes. (A11) 14. 71 Foundation holes are choked and not cleaned. (A9) 15. In the concrete chamber of service gate, there is a leakage through the concrete from u/s side. (B5) 16. The relief wells are not properly surged and cleaned periodically (A5) 17. Only rain gauge & piezometers provided-which are not in working condition. All the instruments are not in working order. (B9)	Leaching material should be tested and remedial measures should be carried out as per CWPRS,Pune Foundation holes should be cleaned. Proper remedial measures to be taken in consultation with Mechanical Organization Necessary repairs shall be done Necessary repairs shall be done in consultation with IRD, Nashik.	
12	Name :**Aralakalmodi (Un**Gated) Tal. KhedDist.Pune	15.5.2020 18.10.2020	Shri. S. D. Chopade, S.E., P.I.C.,	Gallery	1. Electrification arrangement has not been provided. (A8)	Electrification arrangement shall be provided.	Not Received

	Year of completion :**2010** Location : Longitude **73^{0}40'30"** Latitude **19^{0}00'00"** Height :**40.61 m** Gross Capacity :**42.87Mm^3** Spillway capacity **: 963.21 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1672**		Pune	EDA Access Road General	2. Excessive seepage through porous pipe in gallery. (A10). 3. Seepage though porous pipes, foundation drains & monolith joints collected in gravity chamber @ d/s of EDA measured manually is 1.0 lps. (A10) 4. The energy dissipation arrangement is not working satisfactorily for all the discharges (A14) 5. Emergency gate is not in operating condition. (B5) 6. The structures on the access roads are not adequately safe. The degradation to road surface observed. (B6) 7. Instruments are not fixed yet.(B9)	Necessary repairs should be carried out Necessary repairs should be carried out. Necessary repairs should be carried out. Instruments should be fixed.	
13	Name :**Bhamaaskhed (**Gated) Tal. Khed Dist.Pune Year of completion :**2014 (Dam Portion)** Location : Longitude **73^{0}43'00"** Latitude **18^{0}15'00"** Height :**51.125 m** Gross Capacity :**230.473Mm^3** Spillway capacity **: 1736 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1559**	14.5.2020 18.10.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Outlet Gates Hoists, Cranes and Operating Mechanisms Outlet Downstream	1. The rollers are not working properly.(A20) 2. The stem rod for lifting the gates is not perfectly straight. (B5) 3. The alternative power system for gate operation is required. (A19) 4. Emergency gate(s) - Emergency Gate is not in operation due to concrete failure of side drums, broken rubber seal. (B5) 5. Service Gate(s)- Leakages observed through Service Gates. (B12)	Necessary repairs should be carried out. Necessary repairs should be carried out out in consultation with Mechanical Organization. Necessary repairs should be carried out. Necessary repairs should be carried out.	Not Received

				Drainage General	6. Drain at ch. 500m is not working.(B2) 7. Rain gauge on Dam - 2 nos. - 1 In working condition, 1 in not working condition (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.	
(d) Executive Engineer, Nira Right Bank canal Division, Phaltan,Dist. Satara							
14	Name: **Veer** (Gated) Tal.PurandarDist.Pune Year of completion :**1965** Location : Longitude **74^0 5'55** Latitude **18^0 07'05"** Height :**39.11 m** Gross Capacity :**278.49 Mm^3** Spillway capacity **:5154 m^3/ sec** Sr.No.In Large Dam Register 2009:**MH09HH0116**	12.05.2020 28.10.2020	Shri. S. D. Chopade, S.E., P.I.C., Pune	Spillway Gates Relief Wells Body Wall General Intake/Outlet Structure Walls: Guide walls/Divide walls Hoists, Cranes Access Road Access Road	1. Service gate no 7 is blocked and operation of gate no 5 not smooth owing to damaged wall plate. (B5) 2. The relief wells are not properly surged and cleaned periodically. (A5) 3. Wet patches are seen at 0/075 (A1) 4. Light arrangement required at escape @ Ch. 0/140 & 0/160 & CR Gate. (A8) 5. Evidence of abrasion, cavitation or scour on intake/outlet structure- Embeded parts of S. G. no. 3, 4, 5, 6 is eroded. (A16) 6. The foundation erosion or scour noticed near NRBC @ Ch. 0/45 to Ch. 0/510 (A16) 7. The alternative power system for gate operation is not working properly. (A19) 8. There is not a properly constructed and well maintained all weather access road to the dam site. (B6) 9. Service Gate-Leakage	Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice. Necessary repairs should be carried out. Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out	Not Received

					through SG 5, 4, 6 observed after closer.(B12) 10. Evidence of degradation to condition of instrument. (B9)		
(e) Lift Irrigation Management Division, Pune							
15	Name: **Nazare** (Gated) Tal.PurandarDist.Pune Year of completion :**1974** Location : Longitude **74^0 12'50"** Latitude **18^0 17'30"** Height :**22.545 m** Gross Capacity :**22.316 Mm^3** Spillway capacity **:2424.71 m^3/sec** Sr.No.In Large Dam Register 2009:**MH09MH0453**	12.05.2020 22.10.2020	Shri.S. D. Chopade, SE, P.I.C., PUNE	EDA End Weir Outlet Gates Downstream Drainage	1. EDA end wall washed out - 5m. The portion of stilling basin concrete (40x6m) is broken. (A14) 2. The flow conditions in the stilling basin (or bucket) have a tendency to draw material into the bucket and because its churning and abrasion damage to the surface of buckets baffle blocks, apron and end sill. (A14) 3. Erosion of concrete and masonry wall observed - 75m. Scour (158m length) observed on immediate downstream of weir. (A 17) 4. The stem rod for lifting the gates is not perfectly straight. (B5) 5. The downstream area is not sufficiently clear and free draining-weeds of bushes/trees required to be cleaned. (B2) 6. Toe drains and cross drains are silted and weeds of bushes/trees	Necessary repairs should be carried out Necessary repairs should be carried out Scouring should be monitored and Necessary repairs should be carried out. Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice. Necessary repairs should be carried out	Not Received

					required to be cleaned. (B2)		

Superintending Engineer, Pune Irrigation Project Circle, Pune							
Executive Engineer, Bhamaaskhed dam division, Pune							
10	**Name : Temghar** Tal : Mulashi Dist. Pune Year of completion : 2000 Location : Longitude: $73^0$32' Lattitude: 18^0 27' Height: 86.67m Gross Capacity: 107.96 Mm3 Spillway capacity: 626 m3/sec Sr. No. Large Dam Register 2009: MH09HH1544	13-05-20 15.9.2020	P.S.Kolhe SE, PIPC Pune Shri. Y. K. Bhadane SE DSO Nashik	Gallery /Shaft and Drainage Seepage measurement EDA Upstream slope	Wet or slushy patches are observed at some areas of dam. (A1) Safety issues - no hand rails, lighting in gallery. (A8) The seepage from VPD over flows from the steps, which makes the accessibility to gallery difficult. Foundation gallery is also not accessible due to accumulation of debris. (A9)	Suitable treat-ment should be carried out as per suggestion of Temghar Expert Committee for balance work Suitable treat-ment should be carried out as per suggestion of Temghar Expert Committee for balance work Suitable treat-ment should be carried out as per suggestion of Temghar Expert Committee for balance work	As per the recommendation of Temghar Dam Expert Committee (TDEC) leakage preventing measures are in progress. Grouting work is almost completed while upstream treatment of PFRS is in progress. The shotcrete work in monolith no. 1 to 9 is completed upto foundation level and in monolith no. 10 to 14A, it is completed upto overburden level. Thus there is substantial reduction in wet or slushy patches in the dam body. For now the repair work is adjourned sine die due expenditure incurred more than RPR. The remaining grouting and shotcreting work is proposed to complete after approval of II nd RPR from GoM which will ultimately reduce the wet and slushy patches. Lighting is done in the inspection gallery in 2019 and in foundation gallery in accessible portion and in remaining portion it will be done after dewatering of foundation gallery. The repair to staircase will be taken in hand after completion of leakage preventing measures. As per the recommendation of TDEC leakage preventing measures are in progress due to which almost 95% leakages are reduced as compared to year 2016. The inspection gallery is now accessible and foundation gallery is accessible except the some portion where debris is accumulated. Also it is expected that after completion of leakage preventing measures leakages will be within the specified limit. Cleaning of VPD, dewatering of gallery and removal

				Guide walls, Etc			of debris is included in the Temghar dam leakage preventing measures. For now the repair work is adjourned sine die due expenditure incurred more than RPR. The remaining repair work is proposed to complete after approval of IInd RPR from GoM.
				Inspection Gallery	4. The leakage from VPD is very heavy-measurement difficult. From ch 425 m to 620 m drain hole cannot be measured due to flooded gallery. Out of 378 VPD only 78 are functioning reaming 100 are slightly functioning & 200 VPD does not exist (A 9)	Suitable treat-ment should be carried out as per suggestion of Temghar Expert Committee for balance work	As per the recommendation of TDEC leakage preventing measures are in progress. It is observed that due to work done in season 2017-18, 2018-19 & 2019-20 almost 95% leakages are reduced. It is expected that after completion of repair work the leakages will be within the specified limit. Dewatering of gallery, removal of debris and Cleaning VPDs by redrilling is included in the Temghar dam leakage preventing measures. In the portion where VPD does not exist, the proposal of drilling new VPDs is included in IInd RPR of Temghar dam. For now the repair work is adjourned sine die due expenditure incurred more than RPR. The remaining repair work is proposed to complete after approval of IInd RPR from GoM.
					Excessive seepage observed in gallery, Gallery is flooded from RL 425 m to 715 m. (A 10)	Suitable treat-ment should be carried out as per suggestion of Temghar Expert Committee for balance work	As per the recommendation of TDEC leakage preventing measures are in progress. uptill now 80% grouting & 40% shotcrete work is completed due to which 95% leakages are reduced as compared to 2016. After the Shotcrete work is completed, entry of water from upstream portion will be restricted which will reduce the seepage in gallery. Dewatering of gallery and removal of debris is included in the Temghar dam leakage preventing measures. For now the repair work is adjourned sine die due expenditure incurred more than RPR. The remaining repair work is proposed to complete after approval of

							IInd RPR from GoM.
					6. There observed the leachate deposition in gallery. (A 12)	Suitable treat-ment should be carried out as per suggestion of Temghar Expert Committee for balance work	Most of the leaching observed existed before rehabilitation work, hence to reduce the leaching in dam body/gallery fly ash and silica is added in mix design of grouting which is given by CWPRS, Pune. The leaching will reduced after the completion of leakage treatment work. Also, the new leaching which is observed every year gets tested form MERI Nashik.
					7. There observed the leachate deposition in gallery. (A 12)	Necessary repair should be carried out.	Most of the leaching observed existed before rehabilitation work, hence to reduce the leaching in dam body/gallery fly ash and silica is added in mix design of grouting which is given by CWPRS, Pune. The leaching will reduced after the completion of leakage treatment work. Also, the new leaching which is observed every year gets tested form MERI Nashik .
				Stilling basin	8. Out of 378 VPDs, only 78 are functioning, remaining 100 are slightly functioning & 200 VPDs does not exist. (A9)	Necessary repair should be carried out	The cleaning of existing VPD by redrilling is in progress. In the portion where VPD does not exist, the proposal of drilling new VPDs is included in IInd RPR of Temghar dam. After getting the approval from government the work will be taken in hand.
					9. Seepage increases with the increase in water level. (A11)	Necessary repair should be carried out	As per the recommendations of TDEC leakage preventing measures are in progress. The leakage observed at various levels is recorded and graph is plotted which shows considable reduction in leakage compared to previous years at same level.
				Instruments	10. All the open drain holes are blocked and hence the tail pond always remains flooded. (A9)	Necessary repair should be carried out	Cleaning of tail pond is done in June 2018. Cleaning of drain holes and dewatering of tail pond will be done along with Dam strengthening works after completion of leakage preventing measures.

					11. 58 drain holes are not in working & 94 drain holes are not inspected as gallery is flooded. Porous pipes are chocked. Drilling is started (A9) 12. D/S side wall of D. S. S. gate seems to be damaged & Gate of ICPO: Manual operation of stem rod seems to be heavy, bearings are damaged & leakages are observed. (B5) 13. Concavity of depth 1.5m - 2m is observed on the upstream side of dam at monolith 12, Ch.415 to 430m. (B 3) 14. There is foundation erosion or scour noticed. 15. Foundation gallery was flooded from ch 425 to ch 705 (Flow measured = 159.3 lps). Hence could not be inspected. The leakages measured at the time of inspection in monolith no. 14= 14.3 lps, Monolith No. 20 = 28.2 lps, Monolith No. 18-19 =7 lps. (A8). 16. Leakages observed at some chainages in inspection gallery. (A10)	Necessary repair should be carried out Necessary repair should be carried out	The cleaning of drain holes will be carried out after dewatering and removal of debris in the gallery. Cleaning VPDs by redrilling is included in the Temghar dam leakage preventing measures and will be completed after getting the approval to RPR from GoM. Work is carried out through mechanical Division. Instead of manual operation of Stem Rod it is now operated electrically and it is working smoothly. Bearings are also changed. Shotcrete work in this portion was done in season 2019-20 The repair works of the foundation will be carried out along with the dam strengthening work after completion of leakage preventing measures. The seepage observed in gallery will be reduced after completion of leakage prevention measures. Once the shotcrete work is completed, entry of water from upstream portion will be restricted which will reduce the seepage in gallery. Maximum leakage observed was 2587 lps in year 2015-16. Due to work done in working season 2017-18, 2018-19, 2019-20, around 95% leakages are reduced. Leakages reduced from 2587 Lps to 173.1 Lps at same level in the year2020-21. The leakage in the inspection gallery has only been observed in areas where shotcreting has not been done. These leakages will be reduced after completion of leakage preventing measures. Once the shotcrete work is completed, entry of water from upstream portion will be

							restricted which will reduced the seepage in gallery.
					17. Leaching from gallery at some chainage is observed. (A12)	Necessary repair should be carried out	Most of the leaching observed existed before rehabilitation work, hence to reduce the leaching in dam body/gallery fly ash and silica is added in mix design of grouting which is given by CWPRS, Pune. The leaching will reduced after the completion of leakage treatment work. Also, the new leaching which is observed every year gets tested form MERI Nashik.
					18. The leakage observed at the junction of OF and NOF section. (A10) (A11)	Necessary repair should be carried out	This leakage is observed at the Spray wall portion. The grouting and shotcreting work in spillway portion could not be done due to incomplete bridge construction. Now as the bridge is completed the grouting work in this portion will be completed. Also the shotcrete in monolith no. 10 to 14A is completed upto overburden level due to gorge. After getting the approval for IInd RPR from GoM the grouting and shotcrete in this portion will be completed which will ultimately reduce the leakage at the junction of OF and NOF section.
					19. Due to standing water in stilling basin it could not be inspected. Also leakage through guide wall observed.(A 14) 20. Sweating observed on d/s face indicates VPD cleaning is required for monolith displaying sweating. Cracks and vegetation was observed on downstream side of spillway. (A11)	Necessary repair should be carried out	Cleaning of stilling basin is done in june 2018. The repair of the guide wall will be carried out along with the strengthening work after completion of leakage preventing measures. The cleaning of VPD by redrilling is included in IInd RPR of Temghar dam. After getting the approval from government the work will be taken in hand. Vegetation that come to the dam downstream side are cleaned from time to time. Dam safety instruments will be installed after the completion of leakage

					21. Dam safety instrument are not installed on dam site. (B 9)		prevention works. The cost of the dam safety instrument is included in IInd RPR. After the approval of IInd RPR from government, this work will be done.	

(b) Executive Engineer, NeeraDeoghar Project Division, Sangvi(Bhatghar), Tal.- Bhor, Dist. Pune.							
17	Name -**Gunjawani (Gated)** Tal. VelheDist.Pune Year of completion : **2018** Location : Longitude: **73° 37 '00"** Latitude :**18° 18 '00"** Height :**52.825 m** Gross Capacity :**104.69 Mm^3** Spillway capacity: **1924 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1552**	13.05.2020 20.11.2020	Shri.P.S. Kolhe SE PIPC Pune Shri.H.T .DHumal SE PIPC Pune	Outlet Gates Downstream Slope	1. Gates not closed properly. (A20) 2. Minor undulations are observed in the WBM unsealed road section. (B6) 3. The leakage observed through rubber seal. The leakage observed through gates. (B12) 4. Growth of bushes observed on D/S pitching(B13) 5. Crest profile is not at proper elevation.(B1) 6. Bushes & weed growth found at some places.(B2)	Necessary repairs should be carried out Necessary repairs should be carried out out in consultation with Mechanical Organization Necessary repairs should be carried out	Not Received

Superintending Engineer, Sangli Irrigation Circle, Sangli							
(a) Executive Engineer, Sangli Irrigation Division, Sangli							
18	Name : **Morna** **T**al. Shirala Dist.Sangali Year of completion : **1984** Location : Longitude **74^{0}06'30"** Latitude **16^{0}59'20"** Height :**31.20 m** Gross Capacity : 21.18 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1101**	16.07.2020 07.11.2020	Shri H.V.Gunale S.E.SIC Sangali	Outlet	1. Hoist mechanisms is faulty & Emergency gate mechanisms is faulty (B5)	It should be repaired properly in consultation Mechanical organization.	Gate repair and ancillary works are included in the non irrigation procurement list 2021-22 of the mechanical department.
(b) **Executive Engineer ,Takari Pump House Division No.1, Devrashtre**							
19	Name :**Satpewadi barrage** **T**al. Walwa Dist.Sangali Year of completion : 2005 Location : Longitude Latitude Height : 25**.50 m** Gross Capacity : 3.886 **Mm^3** **Proposed for updation in NRLD 2018**	16.07.2020 08.11.2020 21.01.2021	Shri H.V. Gunale S.E.SIC Sangali Shri Y K Bhadane SE DSO Nashik	Abutment Contacts	1. Due to River Flood in Aug.2019 both side slope pitching near abutment Eroded and embankment washed out (B15)	It should be repaired properly	In Progress Not attached .Proposal of Pitching and embankment restoration was sent to District Collector, Sangli for approval but it is not sanctioned yet.Amount Required for this work is about Rs.450 Lacks Completed
					2. Deck slab of slot no. 12 is damaged and some reinforcements are exposed. (B14)	It should be repaired properly	

(3) Superintending Engineer, Kolhapur Irrigation Circle, Kolhapur							
(a) Executive Engineer, Kolhapur Irrigation Division (North), Kolhapur.							
20	Name: **Kadavi** Tal.Shahuwadi Dist. Kolhapur Year of completion : 2000 Location : Longitude 73°52'30" Latitude 17°00'05" Height : 36.05**m** Gross Capacity : 71.34 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1541**	20.05.2020 16.11.2020	Shri M. S. Surve SE, KIC Kolhapur	W.W. Bar	1. Waste wier bar work still not completed by construction wing (B7)	It should be completed.	1)Waste wear bar is 100% completed Chute Portion from Ch.20 to ch.146m Stilling basin from Ch.146 to 162m & End weir from ch.162 to 186m with side linin on both sides of entire portion is proposed on D/S of bar .Out of which only chute portion from ch.20to 122m is executed. Remaining part of Chute portion from Ch.122 to 12 m& End wear from ch.162 to 166m with side lining on both sides of entire portion is not executed. 2)Good quality hard rock is available at down stream of ww bar Waste wear is functioning since year 2004 inspite of this exposed rock in non executed par of chute portion stilling basin & end wear is not disintegrated. Hence necessary to construct remaining work of stilling basin & end weir.
21.	Name- Radhanagari (Gated) Tal.Radhanagari Dist- Kolhapur Year of completion : 1954 Location : Longitude 73°57'40" Latitude 16°020'20"	08.05.2020 16.11.2020	Shri M. S. Surve SE, KIC Kolhapur	D/S Face EDA	1. Concrete/masonry deterioration (spalling, leaching, disintegration**(A10)** 2. Significant leakage at Ch420to480m&Ch640to715m on downstream face .(A10)	It should be repaired properly Proper remedial measures shall be taken to reduce leakage.	Necessary repair work of grouting will be done after proper consultation of DRIP Phase-II Necessary repair work of grouting will be done after proper consultation of DRIP

	Height : 42.83**m** Gross Capacity : 936.56**Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH0067**			Spillway	3. Scouring at all the gates obstruction of penstock in sluice of 5**(A14)**	After rechecking of deficiency by competent field authority, Necessary repairs should be carried out in consultation with CDO Nashik.	Phase-II Necessary repair work will be carried out after proper consultation of CDO.
					4. Condition of energy dissipation arrangement is not satisfactory(A14)	It should be repaired properly	Necessary repair work will be carried out after proper consultation of CDO.
					5. Chains/ wire ropes Required to replace heavy rusted channels rusted need to repairs**(A18)**	It should be repaired properly consultation Mechanical organization	Necessary repair work will be carried out in 2022-23 It should be repaired properly by Mechanical organization in 2022-23
				Hoists	6. There is the mechanical or structural components and fastners or seals subjected to excessive wear (A20)	It should be repaired properly consultation Mechanical organization	
				Outlet			It should be repaired properly by Mechanical organization in 2022-23
		20.01.2021	Test Inspected by Shri Y K Bhadane SE DSO Nashik		7. There is problems with the rollers (A20) 8. Seal angle is damaged (A20) 9. Fulrum pin & lock plate nuts rusted required to replace(A20) 10. Gantry (Gliate with trusses to be repaied or replaced (A20)	It should be repaired properly consultation Mechanical organization	Work Completed Out of 3 service gate 1 gate (Gate no.3) repaired properly by Mechanical org.in.2021-22
					11. Due to wire rope		Necessary repairs work

					hoist service gate cannot be loaded @ FSL (A20)	It should be repaired properly consultation Mechanical organization	will be carried out in 2022-23
					12 The rubber seals required to be replaced (B12)		Leakage has been measured by V Notch and maintained the record.
					13 Leakage and leaching was observed on downstream side of dam near power outlet @ Ch 701.4m. Heavy leakage was observed through joint of buttress and dam masonry at Ch 450m. Leakage should be measured daily and kept under observation. Record of the leakage should be maintained. (A11)	Leakage should be measured daily and kept under observation. Record of the leakage should be maintained.	Necessary repair work will be carried out in 2022-23
					14 Leakage through spillway masonry was observed. Pointing of spillway masonry was damaged.. (B7)	Pointing should be repaired. Necessary remedial measures should be done to stop the leakage	New Concrete Divide wal constructed in20210-21 Work Compleed
					15 Divide wall masonry was heavily damaged. Stones of masonry were collapsed.(A16)	The divide wall masonry should be repaired	Work Completed in 2020-21
					16 Left side guide wall was broken.(A16)	It should be restored.	

22	Name :**Warana** (Gated) Tal. Shirala Dist. Sangli Year of completion :**1989** Location : Longitude **73^{0}05'50** Latitude**17^{0}08'10"** Height :**77.00 m** Gross Capacity **974.18 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1542**	05.06.2020 03.12.2020	Shri M. S. Surve SE, KIC Kolhapur	D/S Face Gallery	1. Seepage at lower level at RD 230 to 330m **(A11)** 2. Problems accessing or inspecting gallery/shaft (obstruction)due to Leakage **(A8)**	Proper remedial measures shall be taken to reduce leakage Necessary work shall be carried out for easily accessible gallery. Proper lighting arrangement should be provided.	To reduce seepage Grouting work is Proposed under special repairs. AA Is sanctioned by govt. Vide GR.dt.27.01.2022 estimate and D.T.P. Work is in Progress Lighting arrangement done in year 2020-21
					3. Lighting arrangement (water proof) is required for safety issues **(A8)**	It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority.	To reduce seepage Grouting work is Proposed under special repairs. AA Is sanctioned by govt. Vide GR.dt.27.01.2022 estimate and D.T.P. Work is in Progress
					4. There is excessive seepage/sweating along gallery/shaft **(A9)**	It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority.	
					5. There is significant or excessive leakage at along gallery/shaft / porous drain **(A10)**		Cleaning drain Holes will be proposed after Grouting work
				Body Wall	6. There is substantial progressive reduction in the seepage through the foundations. Due to choking of the drain holes. **(A9)**	Foundation drain holes should be cleaned for effective drainage	Leaching work completed. Material will be sent for further investigation.
				Spillway	7. There is leachate deposition at RHS of inspection Gallery **(A12)**	It should be kept under observation &leaching material should be sent to MERI/ Lab for testing.	Work Completed in 2020-21 Grouting work is Proposed

				River Outlet Instrumentation	8. There is considerable leaching from the seepage water **(A12)** 9. There is excessive seepage, sweating at any locations on the downstream Face of the dam RD160 to 230 LHS**(A11)** 10. The embedded parts of spillway gates, emergency gates and stop-logs in is not sound condition and free from corrosion**(A20)** 11. The overall condition of river outlet works/river sluices satisfactory **(A20)** 12. Majority of instruments are in dead condition. Need new installation**(B9)**	It should be kept under observation & leaching material should be sent to MERI/ Lab for testing. Proper remedial measures shall be taken to reduce leakage Proper remedial measures to be taken in consultation with Mechanical Organization Proper remedial measures to be taken in consultation with Mechanical Organization Proper remedial measures to be taken in consultation with IRD, Nashik	Work will be done by Mechanical Department in 2022-23 Work is in Process by Mechanical Department Proposal is sent to MERI Nasik
23	Name: **Dudhaganga** (Gated) Tal. Radhanagari Dist. Kolhapur Year of completion :**1989** Location : Longitude **74^0 1'** Latitude **16^{0}21'** Height :**85.30 m** Gross Capacity :**719.12 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1226**	08.05.2020 18.11.2020	Shri M. S. Surve SE, KIC Kolhapur	Relief Well Gallery	1. Relief wells are not functioning, chocked & needs cleaning**(A5)** 2. Foundation gallery is flooded and hence not easily accessible **(A10)** 3. For safety issues Lighting arrangement is deteriorate **(A8)**	They should be cleaned and made functional Necessary work shall be carried out for easily accessible gallery. Proper lighting arrangement should be provided	Rectified in March 2021 work completed Necessary repair work of grouting will done after proper construction of drip PHASE II Work will done in year 2022-23 Necessary repair work

				Body Wall	4. There is excessive seepage/sweating along gallery/shaft **(A9)**	It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority.	of grouting will done after proper construction of drip PHASE II
					5. There is significant or excessive leakage at along gallery/shaft / porous drain **(A10)**	It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority.	
				Spillway	6. The total seepage 53.90.lps into gallery @ R.L.630.45m. **(A11)**		Work Completed
				River Sluice	7. There is considerable leaching from the seepage water **(A12)**	It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority.	
				Instrumentation	8. There excessive seepage, sweating on the downstream face of the dam **(A11)**	It should be kept under observation & leaching material should be sent to MERI/ Lab for testing.	Necessary repair work of grouting will done after proper construction of drip PHASE II Work is in Progress
					9. The embedded parts of spillway gates, emergency gates and stop-logs in Is not sound condition and free from corrosion**(A20)**	Proper remedial measures shall be taken to reduce leakage	
		20.01.2021	Test Inspected by Shri Y K Bhadane SE DSO Nashik		10. The overall condition of river outlet works/river sluices satisfactory **(A20)**	Proper remedial measures to be taken in consultation with Mechanical Organization	Necessary repair work of grouting will done after proper construction of drip PHASE II Work is in Progress
					11. Majority of instruments are in under repair. **(B9)**	The Under repair instrument will be repaired with MERI Nasik consultation	

							Mapping register is maintained
					12. Sweating was observed on downstream side of non overflow section. (A11) 13. Heavy leakage through non overflow section was observed on almost entire length. Leaching was also observed on downstream side of overflow section.(A11) 14. Leakage and sweating were observed on downstream side on spillway.(B7) 15. Heavy seepage and leaching was observed in gallery.. (A10) (A12) 16. Gallery was flooded and inaccessible for most of the portion. Lighting arrangement is not provided in gallery(A8)	Mapping of sweating with respect to reservoir water level should be done. It should be kept under observation with respect to reservoir water level. Leaching material should be sent to MERI for testing	Necessary repair work of Grouting will done after proper consultation of DRIP Phase –II .Leaching material is sent to MERI Nasik.
24	Name: **Kumbhi** (Gated) Tal. Gaganbavda Dist. Kolhapur Year of completion : 2007 Location : Longitude73°51'49" Latitude 16°31'29" Height : 42.58 m Gross Capacity : 76.88 Mm3 Sr.No.In Large Dam Register 2009: MH09HH1671	12.05.2020 16.11.2020	Shri M. S. Surve SE, KIC Kolhapur	Conduit	1. The conduit structurally sound but minor leakages are observed in conduit (A4)	After necessary investigation, repairs should be carried out to stop the leakage.	Work Completed in year 2021-22

25	Name: **Tulshi** Tal. Radhanagari Dist. Kolhapur Year of completion :**1978** Location : Longitude 74°01'00" Latitude 16°31'15" Height : 48**.6 m** Gross Capacity :**96.28 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH0726**	08.05.2020 18.11.2020 19.01.2021	Shri M. S. Surve SE, KIC Kolhapur Test Inspeced by Shri Y K Bhadane SE DSO Nashik	Downstream of Dam	1. There is signs of water logging, slushy conditions or growth of aquatic weeds on the downstream of the dam (A2) 2. Standing pool of water was observed on downstream side. Its location could not be ascertained as chainages were not marked on dam.. (A2) 3. Sweating and Leakage was observed on downstream of Non overflow section.. (A11) 4. Spillway gates were rusted on upstream face. (B11)	Necessary remedial measures Should be carried out weeds on the . Source of the seepage should be identified and necessary arrangement should be done to stop the seepage Leakage should be measured daily with respect to reservoir water level. Records of leakage should be maintained Vegetation on NOF section Should be cleaned They should be painted with anticorrosive paint. All structural components of spillway gates should be well lubricated. Mock drills of spillway gates should be taken when water level goes down. Record of the mock drills should be maintained	Growth of aquatic weeds on the downstream of the dam is observed This is regular maintenance work& this work is done yearly the leakage should be maintained. Vegetation on NOF section should be cleaned Work Completed in year 2020-21 Work Completed in year 2020-21

b)Executive Engineer , Medium Project Division No2, Kolhapur							
26	Name:**Ghatprabha** (Phatakwadi) Tal. Chandgad Dist. Kolhapur Year of completion : 2009 Location : Longitude 74°04’20” Latitude 15°56’45” Height : 48**.30 m** Gross Capacity : 43**.75 Mm**^{3} Sr.No.In Large Dam Register 2009: **MH09HH1900**	08.05.2020 04.12.2020 21.01.2021	Shri M. S. Surve SE, KIC Kolhapur Test Inspected by Shri Y K Bhadane SE DSO Nashik	General Embankment W.W.Bar Outlet	1. There is major alterations or changes to the dam since the last inspection Right side guide wall is Collapsed due to heay rainfall and land slide some Pitching under side of well bridge is disturbed (40sq.m) (A16) 2. Some Pitching under side of well bridge is disturbed (40sq.m) (B15)	Guide wall shall be get repaired as suggested by Design Dn.(MD2)CDO To avoid land slide obtain the opinion from Sr. Geologist, Geology Dn CDO Nashik and do the needful. Necessary repairs should be carried out.	The estimate for permanent remedial measures for right side new guide wall of stilling basin, balanced EDA structure augmentation of NOF wall remaining works of dam including permanent measures to the downstream sliding portion of Saddle dam is prepared under Extension & Improvement /Special Repairs. 2) Before sending proposal for Administrative Approval to GoM it is mandatory to take decision in the Governing Council of MKVDC for taking up this work on priority. The said Extension & Improvement /Special Repairs work is included in Priority list of 107th meeting of Govrning Council of MKVDC Pune dated 12/11/2021 3) After Getting AA from GoM to said estimate, the work will

							be taken in hand after completing necessary tender procedure After executing said work, observed deficiencies at sr.No.1 to 5 and 7 to 10 will get cleared. 4)Mechanical organization is instructed to repair service gate on priority basis. This work is included in Proforma Schedule of 2021-22 of mechanical organization. After repair work is done observed deficiency No.6 will get cleared.
					3. Small amount of leakages was observed through waste weir(B7)	Guide wall shall be get repaired as suggested by Design Dn.(MD2)CDO To avoid land slide obtain the opinion from Sr.Geologist, Geology Dn CDO Nashik and do the needful.	
					4. There is damages or undermining to guide walls (A16)	Guide wall shall be get repaired as suggested by Design Dn.(MD2)CDO To avoid land slide obtain the opinion from Sr. Geologist, Geology Dn CDO Nashik and do the needful. It should be repaired properly consultation Mechanical organization	Work is in Progress Work is in Progress
					5. There is obstructions due to excessive rainfall with land slide, large size boulders with soil & guide wall is collapsed in the	Guide wall shall be get repaired as suggested by Design Dn.(MD2)CDO To avoid land slide obtain the opinion from Sr. Geologist, Geology Dn CDO Nashik and do the needful.	Work is in Progress Work is in Progress

					stilling basin (A14)		
					6. The service gate vibrates more while operating service gate needs repair. There is no supply of electricity on dam site Generator is necessary (A20)	It should be repaired properly consultation Mechanical organization	Work is in Progress
					7. Standing water on was observed on downstream side of earthen embankment..(A2)	The source of water should be identified and it should be kept under observation	Work is in Progress
					8. Seepage was observed on downstream side of saddle dam. (A1)	Vegetation on the embankment should be cleared to find the source of seepage. Seepage should be measured and its record should be maintained with respect to reservoir water level.	
					9. Scouring was observed on downstream side of saddle dam. (A7)	Geology experts should be consulted in this matter	
					10. Left side concrete guide wall is collapsed.. (A16)	It should be repaired	

27	Name: **Jambre** Tal.Chandgad Dist. Kolhapur Year of completion : 2013 Location : Longitude 74°06'40" Latitude 15°52'47" Height :**58 m** Gross Capacity : 23**.23 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1925**	08.05.2020 04.12.2020	Shri M. S. Surve SE, KIC Kolhapur		1. Rubber seals slot are on opposite(wrong) side needs Repairing .Emergency gate is not in plumb line need maintaince **(B5)**	It should be repaired properly consultation Mechanical organization	Necessary repair work will be carried out by Mechanical Organization in year 2022-23
28	Name: **Jangamhatti** Tal.Chandgad Dist. Kolhapur Year of completion : 2005 Location : Longitude 74°17'00" Latitude 15°51'30" Height : 31.40**m** Gross Capacity : 34**.21 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1365**	26.05.2020 27.11.2020	Shri M. S. Surve SE, KIC Kolhapur	W.. W. Bar	1. Excess amount of leakages was observed through waste weir B7)	Necessary remedial measures should be carried out.	Repair work will be carried out in year 2022-23

(b) Executive Engineer, Kolhapur Irrigation Division (South) Kolhapur							
29	Name: Phaye Tal.Bhudargad Dist. Kolhapur Year of completion : 2005 Location : Longitude 74°04'15" Latitude 16°07'04" Height : 34.12**m** Gross Capacity : 3.932 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1629**	19.05.2020	Shri M. S. Surve SE, KIC Kolhapur	Outlet	1. There is structural damages to the intake well 6 holes are found at various level**(A4)** 2. There is leakage observed through the well proper and the conduit **(A4)** 3. There is damage noticed to the conduit concrete, breast wall and gate slots **(A4)**	It should be repaired properly. It should be repaired properly to reduce leakages. It should be repaired properly.	Necessary repair work will being carried out and all deficiencies will be rectified till June 2022
30	Name: **Ambewadi** Tal.Chargadist Dist. Kolhapur Year of completion : 2011 Location : Longitude 74°15'26" Latitude 15°52'49" Height : 33.05**m** Gross Capacity : 7.00 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1889**	21.1.2021	Test Inspected by Shri Y K Bhadane	Rock Toe	1. Standing pool of water and slushy condition was observed near rock toe. (A2)	It should be kept under observation with respect to reservoir water level	Leakage is Kept under observation and necessary data is being maintained at field level.
(4) Superintending Engineer, Satara Irrigation Circle, Satara							
(a) Executive Engineer, Satara Irrigation Division, Satara							
31	Name :**Dhom** (Gated) Tal. Wai Dist. Satara Year of completion :**1976** Location : Longitude **73^0 40'** Latitude **$17^0$58'** Height :**50.00 m** Gross Capacity :**332.00 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH0655**	15.05.2020 18.12.2020	Mr.Doiphode S. L. SE, S.I.C., Satara	Dam Body Downstream Face Guide walls General Outlet Gates Access Road	1. Some sweating observed at D/S face at the portion of redundant well. (A11) 2. Guide wall of canal HR structure damaged and collapsed. (A16) 3. Piezometers: Out of 13 Casagrande piezometers 10 piezometers are not in working condition. (B9)	After rechecking of deficiency by competent field authority, Necessary repairs should be carried out in consultation with CDO Nashik. Proper remedial measures shall be taken. Proper remedial measures	In Administration process (Design Estimate/Tender) In Administration process (Design Estimate/Tender) In Administration process (Design Estimate/Tender)

		14.09.2020	Test Inspected by Mr. Y K Bhadane SE DSO Nashk	Downstream Slope	4. The surface of gates and the paint deteriorated.. (B11)	shall be taken.	To be done by Mechanical wing.
					5. Asphalt Road needs asphalting. (B6)	Necessary repair should be carried out in consultation with IRD, Nashik	In Administration Process (Design/ Estimate /Tender)
					6. Growth of bushes and trees on the d/s slope - RD 0 to 2478..& RL 725.00 to 751.30m. (B13)	Proper remedial measures shall be taken.	Bushes and Trees on D/S of dam removed in2019-20
					7. Piezometer- Out of 7 piezometers installed at ch 1760, not a single piezometer is in working condition. Out of 6 piezometers installed at ch 1940, only three piezometers are in working condition.(B9)	Proper remedial measures shall be taken.	In Administration Process (Design/ Estimate /Tender)
					8. Minor leakage through damaged rubber seal of radial gates was observed..Also the pointing to the ogee spillway required, the cracks on d/s face of spillway observed. There is no provision for stop log gate and emergency gate. Leakages through service gate observed.(B12)	Proper remedial measures shall be taken. Proper remedial measures shall be taken.	In Administration Process with Mechanical Division
					9. Standing water observed in stilling basin.(A14)		In Administration Process
					10. The Automatic Water		RTDS Functioning Properly

					Stage Recorder was not in working condition (B9) 11. Pointing is required to end weir wall.(A17) 12. Sweating, cracks and vegetation was observed on downstream side of spillway. It should be monitored.(A11)		In Administration Process Vegetation Removed
32	Name :**DhomBalkavadi** (Gated) Tal. Wai Dist. Satara Year of completion :**2006** Location : Longitude **73^0 42' 30"** Latitude **17^{0}51'00"** Height :**65.10 m** Gross Capacity :**115.53 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1655**	15.05.2020 18.12.2020	Mr.Doiphode S. L. SE, S.I.C., Satara	Masonry Dam General Gallery Water Conveyance Structure Hoists, Cranes Downstream Slope	1. Due to muddy and slushy condition gallery is not accessible, so could not inspected.. (A8) 2. The instruments are installed in the body of dam but are not yet connected properly to pressure gauges. So they are not in working condition and needs to rectify. (B9) 3. The foundation and porous holes not cleaned periodically. (A9) 4. Leakage through longitudinal duct of ICPO. (A10) 5. Hoist of EG of power house outlet is not working. (A18)	Necessary work shall be carried out for easily accessible gallery. Necessary repair should be carried out in consultation with IRD, Nashik. Necessary work shall be carried out Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out.	Action not initiated yet Epoxy treatment is to be done at upstream side of spillway to prevent leakage & avoid water logging in the inspection . Action not initiated yet Action not initiated yet Action not initiated yet In administration process (Design/ Estimate /Tender) In administration process (Design/ Estimate /Tender) Estimate is Prepared

					6. On the downstream pitching large amount of bushes have grown. (B13) 7. Slushy condition or water logging immediately d/s of dam observed.(A2) 8. Stagnant water observed in stilling basin.(A14) 9. All the open drain holes are not clear and not functioning well.(A14)		and Submitted to division office and further process is in progress Action not initiated yet. Report to Project division vide sub division office Marathi Letter No.dbisbd 1/pb/347 dt.-03/12/2021 In administration process (Design/ Estimate /Tender) Estimate is Prepared and Submitted to division office and further process is in progress Action not initiated yet.

(b) Executive Engineer, Krishna Irrigation Division, Satara							
33	Name **Kanher** (Gated) Tal. Satara Dist. Satara Year of completion :**1986** Location : Longitude **$73^0 55'$** Latitude **$17^0 45'$** Height :**50.34 m** Gross Capacity **: 286.00 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1141**	12.05.2020 15.12.2020	Mr.Doiphode S. L. SE, S.I.C., Satara	Relief Well Gallery Body Wall Outlet Guide walls/Divide walls End Weir Access Road Seepage Measurement	1. The relief wells (4 nos.) are not in good working condition and functioning well. (A5) 2. Problems of inadequate drainage observed, dewatering pumping station is not fully operational. (A8) 3. The foundation and porous holes not cleaned periodically. (A9) 4. 55 porous pipes are not in function, needs to be cleaned.(A9) 5. There has been considerable leaching from the seepage water and deposition of lime near the seepage exit spots. (A12) 6. Damage noticed to the conduit concrete-secondary concrete damaged.(A4) The seepage noticed around the conduit. 7. The energy dissipation arrangement is not working satisfactorily-all concrete washed out, lining damaged for irrigation outlet. (A14) 8. The foundation erosion or scour noticed in d/s side of guide wall of waste weir.(A16) 9. The scour noticed on	Necessary repairs be carried out Necessary repairs should be carried out Quantum of seepage should be monitored monolith wise. Necessary repairs should be carried out Leaching material should be tested and remedial measures should be carried out as per CWPRS, Pune Necessary repairs should be carried out Proper remedial measures shall be taken to reduce leakage. Necessary repairs should be carried out	Relief wall Cleaned Proper Pumping Machinery sets are established Proposed in drip –II Proposed in drip –II Proposed in drip –II Not Received Not Received Proposed in drip –II Proposed in drip –II

				Instrumentation General	the immediate downstream - on right side of end weir some scour & retrogression is observed. Some pitting of surface observed. (A17) 10. Asphalt Road needs asphalting. The fencing & gates damaged. (B6) 11. Hoist of EG of power house outlet is not working.(A18) 12. Alternate power system of gate operation needs replacement.(A19) 13. All piezometers are not working. (B9) 14. The portion of upstream and downstream of dam is not easily accessible due to growth of bushes grass and trees. (B13)	Necessary work shall be carried out Necessary repair should be carried out in consultation with IRD, Nashik. Necessary work shall be carried out	Proposed in drip –II Not Received Not Received Not Received Proposed in drip –II
34	Name **Urmodi** (Gated) Tal. Satara Dist. Satara Year of completion :**2012** Location : Longitude $73^0$54'40" Latitude $17^0$40' 00" Height : 51.10 m Gross Capacity : 282.14 Mm^3 SpillwayCapacity :3840 Cumecs Sr.No.In Large Dam Register 2009: MH09HH1594	19.05.2019 14.12.2020	Mr.Doiphode S. L. SE, S.I.C., Satara	Gallery/Shaft and Drainage (Concrete/ Masonry) Access Road Instrumentation	1. The foundation and porous holes are not periodically cleaned with reaming tool and air water jetting. (A9) 2. Access Road to gallery, instrumentation room needs to construct. (B6) 3. Instruments need to repair. (B9)	Necessary repair should be carried out Necessary repairs should be carried out Necessary repair should be carried out in consultation with IRD, Nashik	Not Received Planned Planned

(c) Executive Engineer, Koyana Irrigation Division, Koyananagar							
35	Name: **Kolkewadi**(Gated) Tal. Chiplun Dist. Ratnagiri Year of completion :**1975** Location : Longitude **73^{0}38' 50''** Latitude **17^0 25'** Height :**66.00 m** Gross Capacity :**36.22 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH0527**	18.05.2020 22.11.2020	Mr.Doiphode S. L. SE, S.I.C., Satara	Gallery/Shaft Condition Gallery Spillway and Energy Dissipation Structure	1. Total no. of foundation holes are 119, 109 are in chocked condition. (A9) 2. Total seepage is 336.23lpm,total seepage during first filling in may 1975 was 43.00lpm 3. Leachate deposition observed.- all over gallery portion. Excessive seepage and leaching observed through the body of the dam and the foundation. (A12) 4. Abrasion of the glacious concrete at few locations (especially near upper tangent point of the ogee) is observed. (B8)	It should be repaired by suitable remedial measures in consultation with Mechanical organization and CDO,Nashik Leaching material should be tested and remedial measures should be carried out as per CWPRS,Pune Necessary repairs should be carried out	Not Received Not Received Not Received
36	Name: **Koyana** (Gated) Tal. Patan Dist. Satara Year of completion :**1967** Location : Longitude **73^{0}44' 26''** Latitude **17^0 23'00"** Height :**103.02m** Gross Capacity :**2980.68 Mm^3** Spillway Capacity : 5742.25cumecs Sr.No.In Large Dam Register 2009:**MH09UH0100**	18.05.2020 21.11.2020	Mr.Doiphode S. L. SE, S.I.C., Satara	Gallery Dam and Dam Block EDA Outlet	1. Major number of drain holes choked. (number of holes not mentioned) (A9) 2. Evidence of damage to joints and/or water stops observed - sharing of few water stops on upstream face of monolith joints, resulting in increase of leakage through joints. (A10) 3. Evidence of abrasion, cavitations or scour on dissipation structure observed - Surface of	Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out	Repair Work of Stilling Basin is Proposed Under DRIP-II Repair Work of Stilling Basin is Proposed Under DRIP-II Repair Work of Stilling Basin is Proposed Under DRIP-II

					stilling basin apron 3 cm to 13cm eroded. (A14)		Field Officers are not observed or Recorded such Observation,
				General Condition	4. The energy dissipation arrangement is not working satisfactorily for the all discharges. (A14)	Necessary repairs should be carried out	However we will keep observation and investigate & Communicate it with due Course time.
			Test Inspected by Mr.Y.K.Bhadne. SE, DSO., Nashik	River Sluice	5. There are vibrations and noise noticed in operation of outlet gates. (B5)	Necessary repairs should be carried out	Repair Work of Stilling Basin is Proposed Under DRIP-II
				Stilling Basin	6. There is a evidence of degradation to condition of instrument (rusting, vandalism) - details not given. (B9)	Necessary repairs should be carried out	Already C.D.work is present to access road and the necessary cleaning work will be done.
				Spillway	7. Appropriate cross drainage work need to be provided to access road.(3.6)		Field Officers are not observed or Recorded such Observation, However we will keep observation and investigate & Communicate it with due Course time.
					8. River Sluice Valve is not in working condition.(B5)		Stilling Basin is inspected on 22/01/2020
					9. Stilling Basin observed flooded. Due to standing water instilling basin it could not be inspected.(A14)		Necessary repair to be done by Mechanical wing.
					10. Minor leakage observed on nappe of spillway gate no.6 (B7)		

[B] Chief Engineer (S.P.),Water Resources Department, Pune							
(1) Superintending Engineer, Kukadi Irrigation Circle, Pune							
(a) Executive Engineer, Kukadi Irrigation Dn No. 1, Narayangaon, Dist.Pune							
37	Name: **Manikdoh** (Gated) Tal. Junnar Dist. Pune Year of completion : **1984** Location : Longitude :**73^{0}49'** Latitude :**19^0 14'** Height :**57.80 m** Gross Capacity :**308.06 Mm^3** Spillway apacity:**143m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH1060**	18.05.2020 26.11.2020	Shri H.T. Dhumal SE KIC, Pune	Gallery Body Wall Downstream Face Energy Dissipation Structure	1. Safety issues like inadequate handrails, lighting or ventilation, etc observed. Problem to inspect the pump observed. The deterioration of pump and associated equipment observed. (A8) 2. The foundation and porous holes not cleaned periodically, with reaming tool and air water jetting. (A9) 3. Excessive seepage/sweating along gallery/shaft observed (location - ch. 435 to 600) (A10) 4. Significant or excessive leakage along gallery/shaft / porous drain observed. (A10) 5. Excessive seepage and leaching through the body of the dam and the foundation.- Leaching observed at left guide wall. (A12) 6. It is observed that there is excessive seepage, sweating on the downstream face of the dam (Location not mentioned) (A11) 7. The pointing on upstream face of the dam is not in good condition. (B8) 8. Excessive seepage/sweating on monolith 11 to 14 on downstream face. (A11) 9. Obstructions observed in or immediately downstream of dissipation structure -needs nalla regradation. (A14) 10. The full length of wire rope of the hoist is not in serviceable	Providing proper draining arrangement seepage in the gallery. Leakages to be minimized by suitable treatment on upstream surface. The foundation and porous holes shall be cleaned periodically. Necessary repairs should be carried out Necessary remedial measures should be carried out. Leached material to be collected and weighed & record of quantity and weight to be maintained. Leaching material should be tested from Lab. The repairs should	Not Received

		16.9.2020	Test Inspected by Shri Y K Bhadane SE DSO Nashik	Outlet Gates Crest of Dam Upstream Face	condition. (A18) 11. The operation of outlet gates is not smooth. (B5) 12. All the lifting beams are not in proper working order and in leveled condition. (B5) 13. The connecting bolts of rubber seals are not properly tightened or damaged. (B12) 14. Degradation to access road observed. Bituminous road needs repairs. (B6) 15. Spalling of concrete observed at some places. (Location not mentioned) (B8) 16. The approximate quantity of leakage through the gates.(B10) 17. Leakages observed at the junction of flank OF and NOF section (A15) 18. Stilling Basin observed flooded.(A14) 19. Plumb bob is not is working condition.(B9)	be carried out through mechanical organization. It should be kept under observation and necessary repairs should be carried out. Quantum of seepage should be monitored monolith wise. Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out	

38	Name: **Wadaj** (Gated) Tal. Junnar Dist. Pune Year of completion : **1982** Location : Longitude :**73^{0}52'30"** Latitude :**19^0 09'00"** Height :**28.00 m** Gross Capacity :**36 Mm^3** Spillway apacity:**1426m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH1006**	18.05.2020 3.12.2020	Shri H.T. Dhumal SE KIC, Pune	Water Conveyance Structure Crest of Dam Spillway Gates Outlet Gates	1. There is an evidence of seepage or leakage from water conveyance structure at ch. 435m. (A11) 2. Cracks observed on dam top between ch.0/840 to ch.1/010. (A13) 3. Cracks observed on dam top between ch.0/840 to ch.1/010. Depth of cracks has been observed by taking open trenches. It is found that bottom of cracks extends below possible open trench depth. (B4) 4. Gate 1 & 3 is not working smoothly. (A20) 5. The condition of the steel surface and the surface paint deteriorated - gate 3 & 5 is leakage through bottom rubber seal. (B11) 6. The operation of outlet gates is not smooth - Gate no 1 & 3 is suddenly dropped appro.2 to 3 cm while gate closing. (B5) 7. The degradation of slope protection (rip-rap)observed. Pitching disturbed.	Necessary repairs should be carried out Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out Necessary repairs should be carried out in consultation with Mechanical Organization.	Not Received
39	Name :**Dimbhe** (Gated) Tal. Junnar Dist. Pune Year of completion :**2002** Location : Longitude **74^{0}44'30"** Latitude **19^{0}5'45"** Height **: 72.10 m** Gross Capacity :**328.22 Mm^3** Spillway capacity: **2870 m^3/**	18.05.2020	Shri H.T. Dhumal SE KIC, Pune	Gallery	1. Problems of inadequate drainage (slippery stairs, water logging of gallery, clogged porous or foundation drains, etc) observed. (A8) 2. The foundation and porous holes not cleaned periodically, with reaming tool and air water jetting. (A9)	Seepage in the gallery to be minimised by suitable treatment to upstream portion	Not Received

	sec Sr.No.In Large Dam Register 2009: **MH09HH1558**	3.12.2020 16.9.2020	Test Inspected by Shri. Y K Bhadane SE DSO Nashik	Downstream Face Body wall Energy Dissipation Structure Crest of dam D/s face Outlet Gates	3. Excessive seepage/sweating along gallery/shaft observed (location not mentioned) (A10) 4. Significant or excessive leakage along gallery/shaft / porous drain observed (location not mentioned) (A10) 5. Leachate deposition observed. (A12) 6. Excessive seepage/sweating throughout on downstream face. Significant leakage on downstream face observed (location not mentioned) Seepage water springs observed in the downstream area (A11) 7. Slushy condition or water logging observed immediately d/s of dam.(A2) 8. There has been considerable leaching observed from the seepage water and deposition of lime near the seepage exit spots. (A12) 9. Obstructions observed in or immediately downstream of dissipation structure(near bridge over river) (A14) 10. Degradation to access road observed (unsealed) (B6) 11. Concrete/masonry deterioration observed (B8) 12. The surface of gates and the paint deteriorated. (B11) 13. Wetness/Sweating observed on almost 70% portion of d/s slope of dam(A11) 14. Heavy Leakages observed near Inspection Gallery & Monolith no. 4A, 4B, 7A as well.(A10) 15. The inspection Gallery couldn't be inspected beyond Ch. 129m due to heavy	Porous pipes & drain holes should be cleaned for proper functioning. Quantum of seepage should be monitored monolith wise. Leached material to be collected and weighed & record should be maintained. Leaching material to be tested from lab. Necessary repairs should be carried out Necessary repairs should be carried out in consultation with Mechanical Organization	

					leakages.(A8)(A10) 16. Stilling Basin observed flooded.(A14) 17. Leaching from gallery at some chainage is observed(A12)	Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out	
40	Name:**Pimpalgaonjoge** Gated Tal. Junnar Dist. Pune Year of completion :**2000** Location : Longitude :**75^{0}52'30"** Latitude :**19^{0}18'45"** Height :**34.204 m** Gross Capacity :**235.28 Mm^3** Spillway capacity:**1167.3 cu sec** Sr.No.In Large Dam Register 2009:**MH09MH1520**	18.05.2020 26.11.2020	Shri H.T. Dhumal SE KIC, Pune	Crest of Dam Instrumentation River Sluice Spillway Gates	1. The bituminous road needs repairs. The degradation observed to road surface - pot holes observed (B6) 2. The pan evaporimeter not in working order. (B9) 3. The overall condition of river outlet works/river sluices is not satisfactory. Heavy leakages observed in river sluices.(quantity of leakage is not mentioned) (B10) 4. Some leakage observed in river outlet works/river sluice. (B10) 5. The approximate quantity of the leakage through the gates is 60 to 70 cusecs. (B12) 6. The condition of the steel surface and the surface paint deteriorated. (B11) 7. Leakages observed through radial gates.(B12) 8. The leakage is observed through the well and the conduit concrete.(Quantity of	Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs shall be done in consultation with IRD, Nashik. Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out	Not Received

					leakage not mentioned.)(A4)	Necessary repairs should be carried out	
(b)Executive Engineer ,Dimbhe Dam Division, Manchar, Dist. Pune							
41	Name :**Chilewad**i (Gated) Tal. Junnar Dist. Pune Year of completion :**2000**Location : Longitude **73^{0}50'00"** Latitude **19^{0}21'00"** Height :**62.56 m** Gross Capacity :**27.17 Mm^3** Spillway capacity: **1686 m^3/sec** Sr.No.In Large Dam Register 2009:**MH09HH1553**	18.05.2020 3.12.2020	Shri H.T. Dhumal SE KIC, Pune	Downstream Drainage Spillway Energy Dissipation Structure Waste Weir Bar and Tail Channel Hoists, Cranes and Operating Mechanisms	1. There are signs of water logging, slushy conditions or growth of aquatic weeds on the downstream of the dam. (A2) 2. Excessive seepage/sweating observed on spillway glacis (A11) 3. The under drainage of the stilling basin (or bucket) is not functioning satisfactorily. All the open drain holes are not clear and functioning well. (A14) 4. One Side of West Weir coping eroded (Approx size - 19 X 5 m) (A14) 5. The scouring observed on downstream side of the bar and/or EDA. End weir apron erode on right side, hole is observed on end weir wall. (A17) 6. Erosion on surface at d/s side of weir observed. The concrete eroded size	Necessary repairs should be carried out in consultation with Mechanical Organization Scouring should be observed and necessary repaires shall be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out	Not Received

				EG General Condition Instrumentation Spillway Gates	- 19x5m. (A17) 7. The coping over the spillway bar in good condition or not…? (not clearly mentioned) (B7) 8. Emergency gates are not in working condition, they are in hanging position at top level. Guide tees are bent, guide tee is absolutely disturbed, and corroded and not functioning. (B5) 9. The considerable noise noticed in operation of outlet gate. (B5) 10. The access road of WBM needs repair. The obstructions along or at entrance to access road observed, river bridge is needed. (B6) 11. Out of 8 only 2 piezometers are in working condition. (B9) 12. The general condition of rubber seals- Gate No.1 Bottom rubber seals damaged. (B12) 13. The rubber seals of Gate no. 1 side and bottom not touching uniformly all along the sealing surface. (B12)	Necessary repairs should be carried out Necessary repairs should be carried consultation with IRD, Nashik. Necessary repairs should be carried out.	
42	Name :**Yedgaon** Tal. Junnar Dist. Pune Year of completion	18.05.2020 26.11.2020	Shri H.T. Dhumal SE KIC, Pune	Dam and Dam Reach (Embankme	1. Hairline cracks at some places on crest of dam. (B4)	Necessary repairs should be carried out.	Not Received

	:**1977**Location : Longitude **74^{0}01'30"** Latitude **19^{0}10'30"** Height :**24.60 m** Gross Capacity :**93.43 Mm^3** Spillway capacity: **3844 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09MH0658**			nt)			
(c)Executive Engineer ,Kukadi Irrigation Division No. 2, Shrigonda, Dist. Ahmednagar							
43	Name :**Ghod**(Gated) Tal. Shirur Dist. Pune Year of completion :**1965** Location : Longitude **74^{0}51'50** Latitude **17^0 8'10"** Height :**34.75 m** Gross Capacity :**216.30 Mm^3** Spillway capacity:**7465 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09MH0117**	19.05.2020 21.11.2020	Shri H.T. Dhumal SE KIC, Pune	Structural performance Earthen Dam Spillway Outlet gate End Weir Downstream Face Outlet W.W.& T.C	1. Excessive seepage observed through the body of the dam and the foundation. (A10) 2. Sweating was observed d/s of spillway gate (A11) 3. The minor leakage/sweating observed at few gate spillway portion. (A11) 4. Seepage noticed in conduit.(A4) 5. The erosion and damages observed in r/s portion of check wall. (A16) 6. The scour noticed on the immediate downstream of check wall. (A16) 7. The Presence of small cracking (structural, thermal, along joints) observed on the few portion.. (B4) 8. GLBC gate properly operating but stem rod is bent, seal brass cap	Quantum of seepage should be monitored monolithwise. Necessary repairs should be carried out. Necessary repairs be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out consultation with CDO Nashik. Scouring should be kept under observation. Necessary repairs should be carried out in consultation with Mechanical Organization.	Not Received

					not fixing. (ii) GRBC. The lifting beams are not in proper working order and not in levelled condition. (B5)	Necessary repairs should be carried out	
					9. Standing pool of water in the downstream of dam in river portion. (A2)	Necessary repairs should be carried out in consultation with Mechanical Organization.	
				End Weir	10. Three Service gates of LBC are not working properly. Steam rods of gate are bent and need to be replaced with alignment. Leaf and brass plates of all gates to be replaced.		
				Outlet Gates	Guide brackets are broken and need to be replaced with alignment. Leakages are observed.(B5)	Necessary repaires shall be carried out.	
					11. EDS undewr drainage block due to deposition of debris material in EDA.(A14)	Asphalt road shall be get repaired.	
					12. Erosion and damage is observed at R/S portion of check wall. (A16)	Necessary repairs should be carried consultation with IRD, Nashik.	
					13. Few portion of asphalt road observed the potholes. (B6)		
					14. U/S portion of spillway structure needs concreting. (B8)		
					15. Piezometers: Stand pipe - 10 nos. - not in		

					working condition. (B9)		
44	Name **:Sina** (Gated) Tal. Karjat, Dist.A'Nagar Year of completion :**1985** Location : Longitude **74°57'00"** Latitude **18°49'00"** Height :**28.5 m** Gross Capacity **: 67.95 Mm^3** Sr.No.In Large Dam Register 2009:**MH09MH1142**	27.05.2020 10.12.2020	Shri H.T. Dhumal SE KIC, Pune	D/s Drainage Concrete dam sections End Weir Outlet Outlet Gates Instruments Stilling Basin Access Road.	1. Local ponds at 50m from the toe drain at ch 1500m. (A2) 2. Some minor leakages at spillway of dam are observed. (A 15) 3. Erosion and damages observed in right side portion of check wall.(A16) 4. Scour noticed immediate downstream of check wall.(A16) 5. SRBC service gate no. 1 is not properly working. SLBC service gate & emergency gate both are not working properly. EG is rusted and guide channel is damaged. (B5) 6. SLBC & SRBC stem rods bend. (B5) 7. The operation of outlet gates is not smooth. (B5) 8. Pan Evaporimeter - 1 Nos.- Not in working condition (B9) 9. Wind Direction Recorder - 1 no.Not in working condition (B9) 10. Water accumulated in stilling basin could not be drain out in proper manner.Under drainage of stilling	Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out	Not Received

					basin is unsatisfactory.(A14) 11. There is no properly constructed and well maintained access road.(B6)		
(2) Superintending Engineer , Satara Irrigation Project Circle, Satara							
(a) Executive Engineer , Minor Irrigation Division, Satara							
45	Name **:Nagewadi** (Gated) Tal. Wai Dist. Satara Year of completion :**1999** Location : Longitude **$73^0$51'45"** Latitude **$17^0$55'17"** Height :**40.02 m** Gross Capacity **: 6.47 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1518**	20.03.2020 26.11.2020	Shri. B. R. Pawar, SE, SIPC, Satara	Earth dam	1. There is a leakage from the junction of conduit with surrounding earth work. The leakage is @ 1.235 lps in the form of clear water. (A1) 2. The slushy patch at ch 855 to 870 near rock toe on d/s of the dam observed.(A2) 3. The hoist mechanism is not available at site.(A18) 4. Emergency gate – Chain pulley arrangement not available at site to take trail of emergency gate.(B5) 5. The surface of gates and paints are deteriorated.(B11)	It should be kept under observation and Necessary repairs should be carried out by permission of competent field authority. Necessary repaires shall be carried out. Necessary repaires shall be carried out.	Not Received
46	Name **:Morna (Gureghar)** Tal. Patan Dist. Satara Year of completion :**2000** Location : Longitude **$73^0$50'00"** Latitude **$17^0$17'30"** Height :**47.02 m** Gross Capacity **: 39.55 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1664**	24.11.2020	Shri. B. R. Pawar, SE, SIPC, Satara	Gate Access road	1. The alternate hand operating system of hoist is not working.(A18) 2. The indications of major active or inactive landslide observed on d/s of the dam near access road to the	Necessary repairs should be carried out Necessary repairs should be carried out in consultation with IRD Nashik	

				Instrumentation	dam.(B6) 3. 14 nos foundation type Piezometers and 36 nos embankment type piezometers and uplift pressure cell ,6 nos are not in working condition.(B9) 4. The condition of steel surface and surface paint deteriorated.(B11)		
47	Name **:Pangare** Tal. Satara Dist. Satara Year of completion :**2000** Location : Longitude **73^{0}52'30"** Latitude **37^{0}09'01"** Height :**32.10 m** Gross Capacity **: 2.72Mcum** Sr.No.In Large Dam Register 2009:**NA**	19.5.2020 19.1.2021	Shri.S.L. Doiphode, SE SIPC Satara Shri P.B.Misal, SE SIPC Satara	Tail Channel Well	1. Landslide in tail channel @ch 120m from waste weir has been observed.(A7) 2. Evidence of structural distress on d/s of HR well,18m long portion of RCC conduit has sunk ny 0.45 m approx. and leakge through conduit observed.(A6)	Necessary repairs should be carried out Necessary repairs should be carried out	Not Received
48	Name **:Kalgaon** Tal. Patan Dist. Satara Year of completion :**Work in progress** Location : Longitude **73^{0}53'00"** Latitude **17^{0}19'03"** Height :**32.26 m** Gross Capacity **: 2.692Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH2416**	12.3.2020 21.11.2020	Shri. S.J.Hirey ,EE MID Satara	WW bar Access road	3. Leakage through middle portion of spillway is observed.(A15) 4. There is not properly constructed and well maintained access road.(B6)	Necessary repairs should be carried out Necessary repairs should be carried out	Not Received
49	Name **:Kusawade** Tal. Satara Dist. Satara Year of completion :**2010** Location :	16.3.2020 26.11.2020	Shri. S.J.Hirey ,EE MID Satara		1. The alternate hand operation syatem of hoist mechanism not	Necessary repairs should be carried out	Not Received

	Longitude **73^{0}57'00"** Latitude **17^{0}34'46"** Height :**30.90 m** Gross Capacity **: 3.495 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH2411**		Shri. Y.K. Bhadane , SE DSO, Nashik		working .(A18) 2. Srevice gate and emergency gate needs periodical maintainance.(B5) 3. The WBM road is in poor condition.(B6) 4. Minor leakage from left side of ww bar at foundation level.(B7) 5. No instruments installed at dam site.(B9) 6. The dam section should be restored as per design(B3) 7. Dam safety instrument are not installed on dam site.(B9)	Necessary repairs should be carried out Necessary repairs should be carried out	
(b) Executive Engineer, Kanher Canals Division No.2, Karwadi, Karad							
50	Name :**Tarali**(Gated) Tal. Patan Dist. Satara Year of completion :**2007** Location : Longitude **73^{0}54'15"** Latitude **17^{0}32'00"** Height :**73.41 m** Gross Capacity **165.70 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1666**	12.04.2020	Shri.B. R. Pawar, SE, S.I.P.C., Satara	Body Wall OF & NOF Section Outlet / ICPU	1. Electrification work in gallery is in progress. (A8) 2. The u/s face of dam is in good condition. But damages at some spots.(B8) 3. Appearance of sweating on the downstream face of dam is observed at monolith no.3, 4, 4A, 15 & 16. (A11) 4. Considerable leaching observed on D/S face of dam (NOF) section.(A12) 5. While operating D/S service gate, some noise is observed as the capacity of hoisting arrangement is less than required, Enhancing of hoist capacity is in progress.(B5)	Necessary repairs should be carried out. Leached material to be collected & recorded of quantity & wait to be maintained. Leaching material should be tested from MERI Nashik.	Not Received

			Test Inspected by Shri. Y.K. Bhadane , SE DSO, Nashik	Stop Gate	6. Trash rack: Operating mechanism is not in position. (B5) 7. Stop log gates/EG/SG: Operating mechanism in not in position. Not working satisfactorily. (B5) 8. Pressure gauges for 5 pressure cells in inspection gallery are fixed which are choked up.Rain gauge at dam site not in working condition.(B9) 9. Sweating and leakages observed on d/s face of dam at Monolith no.3, 4, 4A, 15 and 16 (A11) 10. Considerable leaching from seepage water observed at some spots on NOF section of dam (A12) 11. Electrification in the gallery was not satisfactory (A8) 12. Leaching/Sweating is observed at some locations in inspection gallery (A12) 13.	Necessary repairs be carried out in consultation with Mechanical Organization, Nashik. Necessary repairs should be carried out in consultation with Mechanical Organization, Nashik. Necessary repairs should be carried consultation with IRD, Nashik. Necessary repairs should be carried out	
51	Name :Uttarmand Tal. Patan Dist. Satara Year of completion :**2001** Location : Longitude **74^{0}28'00"** Latitude **17^{0}24'24"** Height :**44.45 m** Gross Capacity **24.925 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1591**	12.04.2020 2.12.2020	Shri.B. R. Pawar, SE, S.I.P.C., Satara	Instrumentation Gate	1) Foundation Piezometers - 24 Nos. ii) Embankment Piezometers - 11 Nos. iii) Plastic Cap Piezometers - 70 Nos. (2) Earth Pressure Cells - 4 Nos. These instruments are not in working condition.(B9) The surface of gates and paints are deteriorated.(B11)	Necessary repairs should be carried out in consultation with IRD, Nashik.	Not Received

(3)Superintending Engineer & Administrator, C.A.D.A. Solapur							
(a)Executive Engineer, Ujjani Dam Maintenance Division, Bhimanagar							
52	Name **:Ujjani** (Gated) Tal. MadhaDist Solapur Year of completion : **1980** Location : Longitude **$73^0$7'18''** Latitude **$14^0$08'00'** Height :**56.40 m** Gross Capacity :**332.00 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH0843**	11.05.2020	Shri. D.B. Sale SE & Adm. CADA, Solapur.	EarthDam Masonry dam Outlet gate Spillway Gallery Body wall Spillway River outlet Instrumentation.	1. Concavity seen on U/S between Ch.2015 to 2040 m. is since last 15 years. However there is no increase in its concavity thereafter. (B1) 2. Ogee crest shows undulations, deterioration at many places.(B7) 3. In gallery safety issues arrangement (inadequate handrails, nosing to steps is necessary.) (A8) 4. Porous pipes need cleaning (A9) 5. There is considerable leaching at some places, particularly NOF and O.F. joints (A12 6. There is retrospective erosion on d/s of tail pond weir on d/s of EDA. It needs attention (A17) 7. River sluice conduits need attention. (B10)	Dam section should be restored to design section. The current section should be superimposed on design section to find out degree of settlement so that proper remedial measure is suggested. gallery should be cleaned and proper safety rrabgements should be made. Porous pipes need should be cleaned. It should be kept under observation & leaching material should be sent to MERI/ Lab for testing. Proper remedial measure be taken and scouring be monitored &prevented further scouring. It should be repaired properly in consultation with mechanical organization		
		22.01.2021	Test Inspected by Shri Y K Bhadane SE DSO Nashik	EE Overflow Section	8. some Instruments are not installed& Some not working as per Annexure-I (B9) 9. Longitudinal crack was observed on earthen embankment at Ch	It should be repaired properly in consultation with IRD, Nashik. Settlement of dam top should be verified by superimposing current cross section and longitudinal section on the	

				Spillway	2575 m. (B4) 10. Leakage was observed on the junction of overflow section and non overflow section. The leakage should be kept under observation with respect to reservoir water level.(A3) 11. Leakage from sides of spillway gates was observed at some places. (B12) 12. Sweating was observed on some piers of overflow section. (A11) 13. Leaching was observed in gallery. (A12) 14. Many relief holes are chocked due to leaching. Many vertical porous drains are chocked with construction material. Field officers reported that it is since construction. Chocked porous pipes should be drilled and made functional.(A10) 15. Lighting arrangement is not provided in gallery. (A8)	original design cross section and longitudinal section It should be kept under observation. It should be kept under observation It should be kept under observation with respect to reservoir water level. Leaching material should be sent to MERI for testing. They should be cleaned periodically It should be provided	

(b)Executive Engineer, Solapur Irrigation Division, Solapur							
53	Name **:Ekruk** (Un Gated) Tal. Dist Solapur Year of completion :1871 Location : Longitude **75^{0}54'30"** Latitude **17^{0}43'30"** Height : 21**.45 m** Gross Capacity : 61.160 **Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH0007**	12.05.2020	Shri. D.B. Sale SE & Adm. CADA, Solapur.	Earth Dam	1. Longitudinal deep cracks observed on u/s crest of dam at ch.0/528 to ch.0/650 similarly deep cracks on dam topch.0/600toch.0/650, ch.0680 to ch.0/700,ch.1/020 to ch.1/050 . (B4)	Dam section should be restored to design section.	Not Received
(3)Superintending Engineer Osmanabad Irrigation Circle, Osmanabad							
(a)Executive Engineer, SinaKolegaonProject Division, Paranda Dist. Osmanabad							
54	Name **:**SinaKolegaon Tal.ParandaDist Osmanabad Year of completion : **2007** Location : Longitude **75^{0}24'00'** Latitude **17^{0}18'00'** Height : 36.6**0 m** Gross Capacity : 19**.19 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1673**	16.05.2020 09.12.2020	Shri. **S.S.Pagar&. R.Shingade**SE OIC Osmanabad	Gallery EDA NOF General D/S Drainage	1. Drainage Gallery is not accessible , In gallery safety issues arrangement not provided (inadequate handrails, lighting or ventilation) (A8) 2. There is Significant or excessive leakage at along gallery/shaft / porous (A10) 3. The under drainage of the stilling basin (or bucket) not satisfactory The open drain holes are not clear and functioning well **(A14)** 4. Small seepage found through the body of the dam **(B8)**	Redrilling the hole is being carried ut by mechanical organization.. It should be kept under observation and Necessary repairs should be carried out by permission of competent field authority. It should be repaired properly It should be kept under observation	The work is proposed in the program DRIP II &III estimate for the work is prepared and work will be carried out aftr sanction Not Received The work is proposed in program DRIP II estimate for the work is prepared and work will carried out after sanction The work is proposed in program DRIP II estimate for the work is prepared and work will carried out after sanction There is 12m difference in River bed level and lower bucket level for re-gradation purpose, it is necessary to

				Junction Crest Instrumentation	5. There is slushy condition or water logging immediately downstream of dam (**A2)**	It should be kept under observation and its source should be identified.	excavate in river bed at least 60Kk.m. length in which foundation of many K.T. Weirs & bridges will be distributed Hence it is not possible to re-grade the river bed. The work is proposed in program DRIP II estimate for the work is prepared and work will carried out after sanction
					6. There is the portions of longitudinal toe drain and exposed cross drains beyond the downstream toe of the dam is not in regular section and freely draining (B2)	Drains should be cleaned. Drain section should be restored as per design.	The work is proposed in program DRIP II estimate for the work is prepared and work will carried out after sanction
					7. Earthen portion near masonry dam have been settled to tune of 90 Cm. in depth for 55 Mtr in length (B3)	Dam section should be restored to design section.	The work is proposed in program DRIP II estimate for the work is prepared and work will carried out after sanction
					8. The surface is degraded and reinforcement is open **(B8)**	Necessary repairs should be done	
					9. Instruments are not installed in dam (B9)	Instruments should be installed in dam	

Table 2.6

ATR on Category-1 Deficiency in Class-II Dams

Sr. No.	Dam Features	Date Of Inspection	Main Component Of Dam	Observation / Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7
---------- NIL ----------						

Table 2.7

ATR on Category-2 Deficiency in Class-II Dams

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
[A]Chief Engineer (W.R.) Water Resources Department, Pune							
(1)Superintending Engineer Pune Irrigation Circle, Pune							
(a)Executive Engineer, Pune Irrigation Division, Pune							
1	Name :**Shetphal** Tal. Indapuri Dist. Pune Date of completion:-**1901** Location : Longitude - **75°00'30"** Latitude- **18°01'00"** Height :-**20.11 m.** Gross capacity :- **17.36 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0021**	16.4.2020 Not Received	Shri. Rajendra Dhodapkar E.E PID. Pune	W.W	1. Wet Patches on d/s are observed.	Necessary repairs to be carried out.	Work for minimize wet spots treatment in the dam body will be included in annual maintenance and repair programmed .After approval from competent authority repair work will be carried out.
2	Name :**Marnewadi** Tal. Mulashi Dist. Pune Date of completion:-**1998** Location : Longitude - **73°40'00"** Latitude- **18°30'00"** Height :-**18.35 m.** Gross capacity :- **0.87 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1453**	24.4.2020 Not Received 15.09.2020	Shri. Rajendra Dhodapkar E.E PID. Pune Shri. Y. K. Bhadane SE DSO Nashik	Outlet EE WW bar	1. Strengthening work is essential for outlet well.(A6) 2.Earthen section seems to be under section in certain portion.	Necessary repairs to be carried out Superimpose Existing Cross Section and L section on Design Cross Section and L Section at every 30 m C/C to ascertain whether earthen embankment is under section or not. Communicate facts to DSO, Nashik It should be brought to	Estimates under special repairs work will be prepared and submitted to Govt fro approval . Remedial work will be carried out after getting approval from government. Existing Cross Section and L section on Design Cross Section and L Section at every 30 m C/C to ascertained soon and will be communicated to DSO,Nashik The work planned to be taken under regular M&R

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
				Outet Well	WW Bar is in damaged condition Stem rod is bent	original design section. Necessary repairs should be carried out. Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	during 2021-22. Work is completed by Mechanical wing.
3	Name :**Mahakoshi** Tal.Mulashi Dist. Pune Date of completion:-**1998** Location: Longitude :-**73°50'00"** Latitude : -**18°05'00"** Height :-**24.00 m.** Gross capacity :- **2.28 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1474**	24.4.2020 Not Received	Shri. Rajendra Dhodapkar E.E PID. Pune	W.W.Bar	1. Spillway central portion 38.00mtr washed out. (B7)	Necessary repairs should be carried out.	Work is carried out.
(b)Executive Engineer Khadakwasala Irrigation Division, Pune11							
4	Name :**Bhugaon** Tal. Mulashi Dist. Pune Date of completion:-**1983** Longitude: -**73° 45'00"** Latitude:-**18°30'00"** Height :-**21.19** Gross capacity :-**1.90 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0963**	14.05.2020 8.12.2020	Shri. V.P.Patil E.E KID. Pune	Earthen Embankment	1. Sectioning of embankment is necessary(B1)	Necessary repairs should be carried out.	Not Received
5	Name :**Matoba** Tal. Daund Dist. Pune Date of completion:-**1978** Longitude: -**74° 34'00"**	15.05.2020 5.12.2020	Shri. V.P.Patil E.E KID. Pune	E. E. WW Bar	1. Standing pool of water observed on RHS of embankment at	This area should be well drained so as to avoid any stagnant pools of water.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
	Latitude:-**18°00'23"** Height :-**17.50** Gross capacity :-**45.2 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0721**				some places. (A2) 2. Stone of masonry spillway and supporting soil is washed out due to heavy rain. Foundation of spillway is now visible. Masonry spillway bar need strengthening urgently.(B7) 3. Huge scouring is observed on D/S of bar.(A7)	Necessary repairs should be carried out Necessary repairs should be carried out	
6	Name :**Malad** Tal. Daund Dist. Pune Date of completion:-**1979** Longitude: -**74° 34'00"** Latitude:-**18°23'00"** Height :-**15.63** Gross capacity :-**1.74 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0796**	15.05.2020 5.12.2020	Shri. V.P.Patil E.E KID. Pune	Outlet WW Bar Tail Channel	1.Leakages through outlet well observed.(A6) 2. Outlet gate not in operation since 10 years. (B5) 3. Some portion of masonry bar is in broken condition. (B7) 4 .Due to heavy rainfall on 15.10.2020 scouring noticed in tail channel approx. 100m UCR wall and embankment washed out. (A7)	Necessary repairs should be carried out. It should be repaired, and brought to original Design. It should be repaired. Necessary repairs should be carried out	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
7	Name :**Palasdeo** Tal. Indapur Dist. Pune Date of completion:-**1953** Longitude: -**74° 34'00"** Latitude:-**18°23'00"** Height :-**18.23** Gross capacity :-**1.09 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0063**	15.05.2020 5.12.2020	Shri. V.P.Patil E.E KID. Pune	W.W.Bar	1. W. W. Bar is damaged due to heavy rainfall@ 14.10 2020 (B7)	Necessary repairs should be carried out.	Not Received
8	Name :**Shirsuphal** Tal. Baramati Dist. Pune Date of completion:-**1879** Location: Longitude: -**74° 35'20"** Latitude:-**18°21'00"** Height :-**20.11** Gross capacity :-**10.1 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0011**	15.05.2020 5.12.2020	Shri. V.P.Patil E.E KID. Pune	Earthen Embankment	1. Crest profile is below by 1.15 m. than design crest and section is disturbed. (B1)	Necessary repairs are to be carried out to proper section after confirmation by competent field authority.	Not Received
(d) Executive Engineer, Nira Right Bank Canal Division, Phaltan							
9	Name : **Naigaon** Tal.Khandala Dist. Satara Date of completion: **1983** Location: Longitude**: 73° 58' 5"** Latitude: **18° 06' 10"** Height :**18.0 m.** Gross capacity :**1.34 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0986**	22.05.2019 17.10.2020	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	W.W. Bar and tail channel Outlet	1. Waste weir bar is damaged condition. Heavy Leakage is observed through Waste weir bar. (B7) 2. Maintenance of outlet gate is required. (A6)	Necessary repairs are to be carried out. Leakage record needs to verify before repair. Necessary repairs are to be carried out in consultation with mechanical organization.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
10	Name : **Mhasavad** Tal.Man Dist. Satara Date of completion: **1876** Location: Longitude**: 74° 53' 00"** Latitude: **17° 35' 00"** Height :**24.00m.** Gross capacity :**46.13Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0017**	25.02.2021	Test Inspected by Shri.N.S Dusane EE Dam Safety Div.No.1 Nashik	EE	1. Profuse growth of Trees, vegetation and bushes is observed on the u/s side slopes of embankment. Pitching on U/S side could not be inspected due to heavy vegetation. Vegetation is so thick that unable to see reservoir from dam top	Trees, vegetation and bushes must be uprooted before they will grow into trees endangering earthen embankment.	Not Received
11	Name : **Banganga** Tal.Phaltan Dist. Satara Date of completion: **1975** Location: Longitude**: 74° 25' 5"** Latitude: **17° 40' 00"** Height :**16.76m.** Gross capacity :**6.50 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0071**	23.05.2019 17.10.2020	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	Downstream E E	1. Wet patches are seen at downstream portion between LBC and RBC (A2) 2. Edges of crest are cut up resulting reduction in width of dam top(B1)	Necessary repairs are to be carried out to proper section after confirmation by competent field authority. Necessary repairs should be carried out	Not Received
(e) **Executive Engineer, Lift Irrigation Management Division , Pune**							
12	Name : **Pilanwadi** Tal.Purander Dist. Pune Date of completion: **1978** Location: Longitude**: 73° 52' 00"** Latitude: **18° 36' 00"** Height :**22.77 m.** Gross capacity :**1.94 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0729**	6.5.2020 N.A.	Shri. M. B. Kanitkar, EE, L.I.M.D, Pune	Outlet	1. Stem Rod of outlet gate is not in operation ,need to be changed.(B5) 2. Sluice outlet gate is not opening smoothly.(B5)	Necessary repairs to be carried out in consultation with mechanical organization.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
14	Name : **Garade** Tal.Purander Dist. Pune Date of completion: **1979** Location: Longitude**: 73° 55' 30"** Latitude: **18° 15' 00"** Height :**18.82 m.** Gross capacity :**1.869 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0794**	6.5.2020 4.12.2020	Shri.M.B. Kanitkar EE LIMD,Pune	Outlet WW Bar	1. Operation of outlet gate is not smooth.Minor leakage through gate is observed (B5) 2. Leakage from WW bar.(Quantity of leakage is not given) (B7)	Necessary repairs to be carried out in consultation with mechanical organization. Necessary repairs to be carried out	Not Received
(f)Executive Engineer, Chaskaman Irrigation Division, Pune							
15	Name : **Nimgaon Mhalungi** Tal.Shirur Dist. Pune Date of completion: **1971** Location: Longitude**: 74° 12' 30"** Latitude: **18° 43' 30"** Height :**17.30 m.** Gross capacity :**3.37 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0993**	21.05.2020 22.11.2020	Shri. B. K. Shete, E E CID, Pune	Earthen Embankment	1. Embankment is not as per design section .(B1)	Necessary repairs should be carried out.	Not Received
16	Name : **Dahiwadi** Tal.Shirur Dist. Pune Date of completion: **1971** Location: Longitude**: 74° 12' 30"** Latitude: **18° 43' 30"** Height :**17.30 m.** Gross capacity :**3.37 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.1623**	21.05.2020 22.11.2020	Shri. B. K. Shete, E E CID, Pune	WW Bar	1 .Leakage seen from foundation WW bar. (B7)	Necessary repairs should be carried out.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
17	Name :**Kadus** Tal.Khed Dist. Pune Date of completion: **1986** Location: Longitude**: 73° 55' 00"** Latitude: **18° 56 00"** Height :**16.65 m.** Gross capacity :**2.63Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.1126**	20.05.2020 26.11.2020	Shri. B. K. Shete, E E CID, Pune	Outlet	1. Stem rod for lifting the gate is slightly bent in top portion.(B5)	Necessary repairs should be carried out in consultation with mechanical organization.	Not Received
(2)SuperintendingEngineer,Sangli Irrigation Circle Sangli							
Executive Engineer,Sangli irrigation Division, Sangli							
18	Name :**Antri** Tal. Shirala Dist. Sangli Date of completion:-**1991** Location : Longitude -74°05′00 Latitude -17°02′00 Height :-**22.79 m.** Gross capacity - **2.82Mcum** Sr.No.In Large Dam Register **MH09MH1215**	02.05.2020 11.09.2020	Smt. J.A.Deokar EE,SIDSangali	Embankment Outlet	1. Leakage or oozing is noticed on d/s side (A1) 2. H.R well is collapsed (A6)	Leakage data should be mainted and reason for leakage should be investigated & treated properly. It should be kept under observation strictly. It should be repaired properly.	According to procurement list 2020-21 work is in progress and the work is in the final stage.
19	Name : **Soradi** Tal. Jath Dist. Sangli Date of completion:-1983 Location : Longitude -75°22′30" Latitude -17°03′05" Height :-18.08 m. Gross capacity - 4.40 Mcum Sr.No.In Large Dam Register MH09MH. 1002	08.05.2020 04.11.2020	Smt. J.A.Deokar EE,SIDSangali	Outlet	1. Stem rod is not straight (B5)	Necessary remedial measures should be done in consultation with mechanical organization.	Stem rod repair and ancillary works are included in the non irrigation procurement list 2021-22 of the mechanical department

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
(a) Executive Engineer,Tembhu Lift Irrigation Project Management Division, Ogalewadi							
21	Name :**Atpadi** Tal. Atpadi Dist. Sangli Date of completion:-**1972** Location : Longitude -74°55′00” Latitude -17°24′00” Height :-**16.50 m.** Gross capacity - **8.67Mcum** Sr.No.In Large Dam Register **MH09MH0314**	26.05.2020 16.10.2020	Shri. L.B.Kengar SDO,TLIM Dn. Ogalewadi	Outlet	1. Stem rod is bent	Necessary remedial measures should be done in consultation with mechanical organization.	Not Received
22	Name :**Buddhihal** Tal. Mangalwedha Dist. Solapur Date of completion:-**1966** Location : Longitude -**74°59’54’’** Latitude -**17°18’30’’** Height :-**18.52 m.** Gross capacity - **19.03Mcum** Sr.No.In Large Dam Register **MH09MH0134**	14.04.2020 21.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Embankment	1. Raincuts are developed on embankment. Crest profile is not at proper elevation. Undulations and local depression are observed. (B4)	Original dam section should be restored.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
23	Name :**Dighanchi** Tal. Atpadi Dist. Sangli Date of completion:-**1976** Location : Longitude -**74°55'30''** Latitude -**17°24'30''** Height :-**15.80 m.** Gross capacity - **4.0Mcum** Sr.No.In Large Dam Register **MH09MH0591**	26.05.2020 16.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Outlet	1. Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received
24	Name :**Ghanand** Tal. Atpadi Dist. Sangli Date of completion:-**1986** Location : Longitude -**74°44'00''** Latitude -**17°44'30''** Height :-**15.46 m.** Gross capacity - 1.44**Mcum** Sr.No.In Large Dam Register **MH09MH1120**	20.05.2020 06.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Outlet	1. Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received
25	Name :Kadegaon Tal. Kadegaon Dist. Sangli Date of completion:-**1975** Location : Longitude -74°16′00" Latitude -17°16′00" Height :-**17.54 m.** Gross capacity - 2.36**Mcum** Sr.No.In Large Dam Register **MH09MH0510**	21.03.2020 10.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Embankment Outlet	1. There is standing pool on d/s side at 400m. chainage (A2) 2.Leakage or oozing through dam slope is observed**(**A1) **3.** Stem rod is slightly bent.(B5) **4.**Masonry of outlet well is disturbed at top coping (A6)	It should be kept under observation and its source should be identified Leakage data should be mainted and reason for leakage should be investigated & treated properly. It should be kept under observation strictly. Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization..	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
						It should be repaired properly	
26	Name :**Karandewadi** Tal Kadegaon Dist. Sangli Date of completion:-**1995** Location : Longitude -**74°17'12''** Latitude -**17°22'00''** Height :-**18.45 m.** Gross capacity - 1.36**Mcum** Sr.No.In Large Dam Register **MH09MH1348**	21.03.2020 NA	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Embankment Outlet	1. Settlement is gorge is observed, top width is reduced than design. (B1) 2. Stem rods are not straight.(B5)	Original dam section should be restored. Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received
27	Name : **Morale** Tal Tasgaon Dist. Sangli Date of completion:-**1974** Location : Longitude -**74°42'09''** Latitude -**17°11'43''** Height :-**16.10 m.** Gross capacity - 0.65**Mcum** Sr.No.In Large Dam Register **MH09MH023**	14.03.2020 24.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	General	1. Approach road is not provided. (B6)	Road should be constructed	Not Received
28	Name :**Nimbhavade** Tal Atadi Dist. Sangli Date of completion:-**1986** Location : Longitude -**74°52'30''** Latitude -**17°28'00''** Height :-**16.13 m.** Gross capacity - 6.68**Mcum** Sr.No.In Large Dam Register **MH09MH1187**	26.05.2020 16.10.2020	Shri. L.B.Kengar SDO,TLIM Dn. Ogalewadi	Embankment Outlet	1. Heavy longitudinal cracks and also deep upto 1.00 to 2.00m. Upper embankment of dam is not showing properties of casing should be removed and embankment to be done (**B4**) 2. Heavy settlement of bankwork in	Original dam section should be restored. Original dam section should be restored. It should be repaired properly Depending on severity	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
					gorge portion upto 1.20m to 0.5@ end (**B4**) 3. Outlet well is not in good condition. Concrete on top of well is disturbed (A6) 4. Stem rod is bent (B5)	of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	
29	Name : **Pare** Tal Khanapur Dist. Sangli Date of completion:-**1973** Location : Longitude -**74°35'00''** Latitude -**17°12'00''** Height :-**18.73 m.** Gross capacity - 34.6**Mcum** Sr.No.In Large Dam Register **MH09MH0296**	13.03.2020 24.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Outlet	1. Upper slab, masonry portion of 1.5 m height completely damaged. (A6)	It should be repaired properly	Not Received
30	Name :**Vejegaon** Tal Khanapur Dist. Sangli Date of completion:-**1979** Location : Longitude -**74°36'00''** Latitude -**17°23'00''** Height :-**16.77 m.** Gross capacity - 2.21**Mcum** Sr.No.In Large Dam Register **MH09MH0296**	13.03.2020 23.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Embankment	1. Boils and wet patches are observed on downstream side (A1)	Necessary repairs should be carried out properly.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
31	Name :**Walunj** Tal Lath Dist. Sangli Date of completion:-**1984** Location : Longitude -74°00′37” Latitude -17°00′19” Height :-**17.81 m.** Gross capacity - 1.69**Mcum** Sr.No.In Large Dam Register **MH09MH0635**	13.03.2020 23.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Outlet	**1.**Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received
32	Name :**Mahadikwadi** Tal Atpadi Dist. Sangli Date of completion:-**2003** Longitude -**74°40’00’’** Latitude -**17°11’00’’** Height :-**16.02 m.** Gross capacity - 2.10**Mcum** Sr.No.In Large Dam Register **MH09MH1547**	20.03.2020 06.10.2020	Shri.R.Y.Reddiyar EE,TLIPD Ogalewadi	Outlet	1. Leakage through outlet gate is observed (A4)	Necessary remedial measures should be done in consultation with mechanical organization.	Not Received
33	Name :**Jambhulani** Tal Atpadi Dist. Sangli Date of completion:- 1975 Longitude -74°60′00” Latitude -17°34′00” Height :-**15.87 m.** Gross capacity - 2.85**Mcum** Sr.No.In Large Dam Register **MH09MH0517**	20.05.2020 06.10.2020	**Shri. L.B.Kengar SDO,TLIM Dn. Ogalewadi**	Embankment Outlet	1. Heavy raincut is observed on d/s (B4) 2. Stem rod is not straight (B5)	Original dam section should be restored Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
(3)Superintending Engineer, Kolhapur Irrigation Circle, Kolhapur							
(a) Executive Engineer. Kolhapur Irrigation Division, (North) Kolhapur							
34	Name :**DaryachiVadgaon** Tal. Chandgad Dist. Kolhapur Date of completion:-**1993** Location: Longitude:-**74°00'** Latitude: -**16°36'** Height -:**23.65 m.** Gross capacity-**0.8473 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1302**	02.05.2020 13.11.2020	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Embankment	1. Leakage through dam body is observed when water level at R.L. 88.00 to 92.70 m. from ch.135 to 195 m, but water is clear.(A1)	Leakage data should be mainted and reason for leakage should be investigated & treated properly. It should be kept under observation strictly.	Not Received
35	Name :**Kasarde** Tal. Shahuwadi Dist. Kolhapur Date of completion:-**2009** Location: Longitude -74°51′00" Latitude -16°55′30" Height -:**29.85 m.** Gross capacity-**4.416 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1908**	22.05.2020 03.12.2020	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Embankment	1. There are some boils / wet patches on downstream of dam within 200m. (A1)	Necessary repairs should be carried out properly	Not Received
36	Name :**Kumbhavade** Tal. Shahuwadi Dist. Kolhapur Date of completion:-**1999** Location: Longitude -**73°46'00''** Latitude -16**°47'00''**Height -:**25.16 m.** Gross capacity-**5.615 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1499**	15.05.2020 16.11.2020	Shri.R.B.Bandiwadekar EE. KID (North) Kolhapur	W.W. Bar	2. There are heavy leakages through weir bar. (Quantity of leakage is not given.) (**B7)**	Necessary repairs should be done to stop the leakage	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
37	Name :**Padsali** Tal. gandhinglaj Dist. Kolhapur Date of completion:-**1997** Longitude -**74°50'50''** Latitude -16**°48'00''** Height -:**29.15 m.** Gross capacity-**6.90 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1427**	18.05.2020 16.11.2020	Shri.R.B.Bandiwadekar EE. KID (North) Kolhapur	W.W. Bar	1. There are heavy leakages through weir bar. (Quantity of leakage is not given.) (**B7)**	Necessary repairs should be done to stop the leakage	Not Received
38	Name :**Pombre** Tal. Panhala Dist. Kolhapur Date of completion:-**1985** Longitude -73°50′15" Latitude -18°42′35" Height -:**24.11 m.** Gross capacity-**6.50 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1078**	18.05.2020 16.11.2020	Shri.R.B.Bandiwadekar EE. KID (North) Kolhapur	Embankment	1.There are some boils/wet patches/seepage/sluushy/boggy ground on downstream side within 200m. (A1)	Necessary repairs should be carried out properly	Not Received
(b) Executive Engineer,Kolhapur Irrigation Circle (South), Kolhapur							
39	Name :**Dindalkop** Tal. gadhinglaj, Dist. Kolhapur Date of completion:-**2014** Location: Longitude- 74°25′30" Latitude: -15°45′45" Height :-**27.61 m.** Gross capacity **2.625 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1925**	26.05.2020 25.11.2020	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. Stem rods for lifting gate are not straight (B5)	Necessary remedial measures should be done in consultation with mechanical organization.	Not Received
40	Name :**Kitwad - 1** Tal. chandgad, Dist. Kolhapur Date of completion:-**2000** Location: Longitude- 75°25′00" Latitude: -15°58′00" Height :-**29.59 m.** Gross capacity **5.53 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1543**	26.05.2020 27.11.2020	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. Stem rods for lifting gate are not straight (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
41	Name :**Kumari** Tal. Gadhinglaj, Dist. Kolhapur Date of completion:-**1998** Location: Longitude- 74°18′00” Latitude: -15°30′00” Height :-**23.64 m.** Gross capacity **2.59 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1457**	26.05.2020 17.11.2020	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. Stem rods for lifting gate are not straight (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received
42	Name :**Shendri** Tal. Gadhinglaj, Dist. Kolhapur Date of completion:-**1981** Location: Longitude- 74°21′00” Latitude: -16°16′00” Height :-**21.14 m.** Gross capacity **1.81 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0853**	07.04.2020 27.11.2020	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. H.R. well is damaged (A6)	It should be repaired properly.	Not Received
43	Name :**Sundi** Tal. Chandgad, Dist. Kolhapur Date of completion:-**2009** Location: Longitude- 74°22′00” Latitude: -15°16′00” Height :-**27.00 m.** Gross capacity **2.594 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1910**	12.05.2020 25.11.2020		Shrimati S.C. Mane E.E. KID (S) Kolhapur	1. Stem rod for lifting gate is not straight (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
44	Name :**Yenechavandi** Tal. Gadhinglaj, Dist. Kolhapur Date of completion:-**1996** Location: Longitude- **74°20'** Latitude: -**16° 11'** Height :-**21.65 m.** Gross capacity **1.545 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH139**	12.05.2020 21.10.2020	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Earth Dam	1. D/S leakages at Ch 100 & 240m is observed. (A1)	It should be kept under observation. Leakage data should be mainted and reason for leakage should be in investigated & treated properly. Necessary repairs be carried out to damage portion.	Not Received
(4)Superintending Engineer, Satara Irrigation Circle, Satara							
(a) Executive Engineer, Krishna Irrigation Division, Satara							
45	Name : **Kankatrewadi** Tal. Phaltan Dist. Satara Date of completion: **1978** Location: Longitude: **74°35′00"** Latitude:**17°29′00"** Height :**19.51 m.** Gross capacity :**1.24 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0736**	17.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	Earthen Embankment W.W.Bar	1. Leakage through masonry and foundation was observed.. (A3) 2. There is leakgage between joint of guide wall and earthen embankment.(A4) 3. Boil, wet patches ,water seepage ,slushy ground on the d/s of dam within 200mtr from the toe drain are observed.(A1) 4. Retrogression and scouring observed in tail channel.(A7) 5. Operation of outlet gate is not smooth. (B5) 6. There is	This should be kept under observation. Leakage should be measured, monitored and necessary repair to be carried out if necessary. Necessary repairs should be carried out. Necessary repairs should be carried out	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
					settlement and displacement of stones in rock toe are observed.(B3)		
46	Name :**Thoseghar** Tal. Satara Dist. Satara Date of completion:-**1989** Location : Longitude- **73°52′00"** Latitude -**17°36′00"** Height :-**18.05 m.** Gross capacity :**1.91 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH1208**	10.5.2020 27.11.2020	Shri. A.S.Pawar E.E., KID, Satara	Earthen Dam Outlet W.W.Bar Tail Chanel	1. Relief wells are not functioning. (A5) 2. Some leakage is observed through w.w. bar. (B7) 3. Gate is not working smoothly,unusual noise during operation.(B5) 4. EDA is heavily damaged. (A14) 5. Guide wall,divide wall and guide bund damaged.(A16)	Necessary repairs should be carried out. Causes of exact leakages should be investigated & treated accordingly. Necessary repairs should be carried out.	Not Received
47	Name :**Ner** Tal. Khatav Dist. Satara Date of completion:-**1981** Location : Longitude- **74°18′00"** Latitude -**17°44′00"** Height :-**22.50 m.** Gross capacity :**9.12 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0018**	17.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	Earthen Embankment Tail Channel	1. Longitudinal cracks are observed on dam top during summer period. (B4) 2. There is weak construction joint observed 3ft below ww bar and	There should be close vigil on the behavior of cracks. Depthwise extend of crack shall be find out and proposed remedial action with necessary drawings shall be communicated to DSO, Nashik.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
		25.02.2021	Test Inspected by Shri. N.S.Duane EE Dam Safety Div No.1 Nashik	EE	heavy leakage through these jonts.(B7) 3. Relief well are not functioning properly.(A5) 4. Scouring on d/s side of bar is noticed.(A17) 5. Retrogession and scouring noticed in tail channel.(A7) 6. Longitudinal Cracks are noticed on dam top	Necessary remedial actions should be taken. There should be close vigil on the behavior of cracks. Depthwise extend of crack shall be find out and proposed remedial action with necessary drawings shall be communicated to DSO, Nashik.	
48	Name :**Pingali** Tal.Man Dist. Satara Date of completion:-**1878** Location : Longitude- **74°33′00"** Latitude -**17°41′00"** Height :-**16.00 m.** Gross capacity :**2.38 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00731**	7.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	Earthen Embankment Outlet	1. Standing pool of water is observed on D/S side of earthen dam.(A2) 2. Outlet well not in good condition.(A6) 3. Relief well not functioning properly.(A5) 4. Operation of outlet gate is not smooth/not functioning properly.(B5) 5. There is settlement and	Necessary repairs shall be carried out. Necessary repairs should be carried out in consultation with mechanical organization.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
					displacement of stones in rock toe are observed.(B3)		
49	Name :**Yeralwadi** Tal.Khatav Dist. Satara Date of completion:-**1973** Location : Longitude- **74°29′35"** Latitude -**17°31′24"** Height :-**19.50 m.** Gross capacity :**32.80 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00386**	17.5.2020 5.11.2020	Shri. A.S.Pawar E.E., KID, Satara	Outlet EE	1. Stem rod of both gates are bent.(B5) 2. At vertical slope side displacement is seen.(B3)	Necessary repairs shall be carried out through mechanical organization. Necessary repairs should be carried out	Not Received
50	Name :**Jambhulani** Tal.Man Dist. Satara Date of completion:-**1981** Location : Longitude- **74°60′00"** Latitude -**17°34′00"** Height :-**15.21 m.** Gross capacity :**2.41 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0516**	7.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	Outlet well Outlet gate	1. Stem rod for lifting the gate is not straight.(B5) 2. Relief wells are not functioning properly.(A5) 3. There is settlement and displacement of stones in rock toe.(B3) 4. Operation of outlet gate is not smooth,unus	Necessary repairs shall be carried out through mechanical organization. Necessary repairs should be carried out	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
					ual noise during operation.(B5) 5. Outlet well not in good condition.(A6)		
51	Name :**Mayani** Tal.Khatav Dist. Satara Date of completion:-**1872** Location : Longitude- **74°34′00”** Latitude -**17°26′00”** Height :-**18.00m.** Gross capacity :**1.46 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0008**	17.5.2020 19.12.2020 25.02.2021	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara Test Inspected by Shri. N.S. Dusane EE DSD -1 Nashik	EE Drains Outlet well Outlet gate Tail channel WW Bar	1. There is settlement and displacement of stones in rock toe.(B3) 2. Drains are not free from vegetation and bushes etc.(B2) 3. Outlet well not in good condition.(A6) 4. Operation of outlet gate is not smooth.(B5) 5. Retrogession and scpuring noticed in tail channel.(A7) 6. Leakages and sweating from WW bar is observed	Necessary repairs shall be carried out Vegetation should be removed from the drains for free flow. Necessary repairs should be carried out Necessary repairs should be carried out Timely repairs of localized deteriorated pointing is must to avoid further exposure of masonry joints.Also, repointing of UCR masonry shall be done following due procedure as raking etc complete.	Not Received
52	Name :**Ranand** Tal.Man Dist. Satara Date of completion:-**1956**	7.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID,	Tail Channel	1. Standing pool of water on d/s of dam is	Necessary repairs shall be carried out.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
	Location : Longitude- **74°40′00"** Latitude -**17°43′00"** Height :-**19.32 m.** Gross capacity :**7.12 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0078**		Satara Shrimati S.S.Magdum E.E., KID, Satara	Outlet gate	observed.(A2) 2. Retrogessiop n/scouring noticed in tail channel.(A7) 3. There is settlement and displacement of stones in rock toe.(B3) 4. Operation of outlet gate is not smooth.(B5) 5. Some leakage through the gate frame is observed.(B12)	Necessary repairs should be carried out	
53	Name :**Andhali** Tal.Man Dist. Satara Date of completion:-**1997** Location : Longitude- **74°30′00"** Latitude -**17°45′07"** Height :-**18.60 m.** Gross capacity :**9.273 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH01443**	7.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	Outlet well EE	1. Repairing of outlet well is required.(A6) 2. Emergency gate/Stop log gate not in working condition.(B5) 3. Longitudinal cracks are observed.(B4) 4. Relief well is not functioning properly.(A5)	Necessary repairs shall be carried out. Necessary repairs should be carried out	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
54	Name :**Arabwadi** Tal.Koregaon Dist. Satara Date of completion:-**1977** Location : Longitude- **74°04′00"** Latitude -**17°50′07"** Height :-**17.35 m.** Gross capacity :**1.89 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00621**	7.6.2020 7.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	Outlet Gate EE	1.Stem rod for lifting the gate is not straight.(B5) 2.Top width of tha dam is reduced.(B1)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization. Original dam section should be restored	Not Received
55	Name :**Daruj** Tal.Khatav Dist. Satara Date of completion:-**1956** Location : Longitude- **74°25′00"** Latitude -**17°40′00"** Height :-**16.46 m.** Gross capacity :**2.88 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00074**	17.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	EE Tail Channel Outlet well	1. There is settlement and displacement of stones in rock toe.(B3) 2.Relief well is not functioning properly.(A5) 3.Retrogession observed in tail channel.(A7) 4.Outlet well not in good condition.(A6)	Necessary repairs shall be carried out. Necessary repairs should be carried out	Not Received
56	Name :**Masalwadi** Tal.Man Dist. Satara Date of completion:-**1975** Location : Longitude- **74°50′00"** Latitude -**17°40′00"** Height :-**14.30 m.** Gross capacity :**2.41 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00377**	7.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	EE Tail Channel	1.Growth of vegetation is observed in pitched portion (B13) 2.There is settlement and displacement of stones in rock toe.(B3) 3.Drains are silted and growth of vegetation is observed.(B2) 4.Retrogession /scouring noticed	Necessary repairs shall be carried out. Necessary repairs shall be carried out.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
					in tail channel.(A7)		
57	Name :**Dhakani** Tal.Man Dist. Satara Date of completion:-**1994** Location : Longitude- **74°41′00"** Latitude -**17°35′00"** Height :-**18.50 m.** Gross capacity :**3.05 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH01335**	7.5.2020 19.12.2020	Shri. A.S.Pawar E.E., KID, Satara Shrimati S.S.Magdum E.E., KID, Satara	EE Outlet Gate	1. Relief wells are not functioning properly.(A5) 2. There is settlement and displacement of stones in rock toe.(B3) 3. The leakage through the gate is observed.(B5)	Necessary repairs shall be carried out. Necessary repairs shall be carried out.	Not Received
(b) Executive Engineer, Koyna Irrigation Division, Koynanagar							
58	Name :**Chaphal** Tal. Satara Dist. Satara Date of completion:-**1983** Location : Longitude- **74°00′28"** Latitude -**17°24′24"** Height :-**18.05 m.** Gross capacity :**1.91 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0966**	6.5.2020 2.12.2020 13.01.2021	Shri. K.H. Patil E.E., Koyna Irrigation Division, Koynanagar Shri. V. H. Phalke E.E., KoynaIrrigation Division, Koynanagar Test Inspected by Shri.N.S. Dusane E.E., Dam	WW Bar WW bar	1. There is damages below the protection wall (@base of the wall of UCR masonry,) (B7)	Damaged portion of UCR masonry due to dislodging of stones shall be repaired. Also, repointing of UCR masonry shall be done following due procedure as raking etc complete.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
			Safety Div. No.1, Nashik		2. UCR masonry of Waste Weir bar of about 17.00 m length is damaged.(B7)	Damaged portion of UCR masonry due to dislodging of stones shall be repaired.Also,repointing of UCR masonry shall be done following due procedure as raking etc complete.	
[B] Chief Engineer (S.P) Water Resources Department, Pune							
(1) Superintending Engineer Kukadi Irrigation Circle Pune							
(a) Executive Engineer ,Kukadi Irrigation Division No. 1 Narayangaon							
59	Name : **Ramjewadi** Tal. Junnar Dist. Pune Date of completion:1983 Location: Longitude -**73°41'00''** Latitude - **19°13'00''** Height :- **21.48m.** Gross capacity 1.72 **Mcum** Sr.No.In Large Dam Register 2012:**MH09MH 0965**	5.6.2020 8.11.2020	Shri.P.P. Kaduskar EE KID, Narayngaon	WW Bar	1. The UCR masonry well is collapsed and it is very serious, needs urgent repairs. 2. The repaire of WW bar is incomplete (B7)	Necessary repairs should be carried out. Necessary repairs should be carried out.	Not Received
60	Name : **Otur Waghdara** Tal. Junnar Dist. Pune Date of completion:1992 Location: Longitude -**74°02'00''** Latitude - **19°05'00''** Height :- **20.16m.** Gross capacity 0.953 **Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1262**	12.5.2020 25.11.2020	Shri.P.P. Kaduskar EE KID, Narayngaon	E E Outlet	1. Leakage in Dam Rough body (A1) 2. Outlet gate not in working condition.(B5) 3. Lifting beam not in proper order and sound condition.(B5)	Necessary repairs should be carried out. It should be lubricated periodically. At least, it should be properly lubricated after monsoon season.	Not Received
61	Name : **Ghangaldara** Tal. Junnar Dist. Pune	5.6.2020 8.11.2020	Shri.P.P. Kaduskar	E. Gate	1. Emergency gate is	Necessary repairs should be carried out.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
	Date of completion:2009 Location: Longitude -**74°00'00''** Latitude - **18°20'00''** Height :- **26.34m.** Gross capacity 2.34 **Mm3** Sr.No.In Large Dam Register 2012:**MH09MH1906**		EE KID, Narayngaon		supplied but not installed. (B5)		
62	Name : **Ucchil** Tal. Junnar Dist. Pune Date of completion:2001 Location: Longitude -**73°41'00''** Latitude - **19°13'00''** Height :- **13.01m.** Gross capacity 3.12 **Mm3** Sr.No.In Large Dam Register 2012:**MH09MH1572**	5.6.2020 8.11.2020	Shri.P.P. Kaduskar EE KID, Narayngaon	WW bar	1. UCR Masonry of spillway bar is totally damaged and leakage through masonry is seen.(B7)	Necessary repairs should be carried out.	Not Received
63	Name : **Anepemdara** Tal. Junnar Dist. Pune Date of completion:1998 Location: Longitude -**73°14'00''** Latitude - **19°11'00''** Height :- **14.37m.** Gross capacity 2.09 **Mcum** Sr.No.In Large Dam Register 2012:**MH09LH 1473**	13.5.2020 24.11.2020	Shri.P.P. Kaduskar EE KID, Narayngaon	Outlet WW Bar	1. Operation of outlet gate is not smooth (B5) 2. Stem rod damaged (B5) 3. Heavy leakage between joint of earthwork and flank wall, heavy leakage through WW bar. (B7)	Necessary repairs should be carried out. Necessary repairs should be carried out.	Not Received
(2) Superintending Engineer & Admn. C.A.D.A. Solapur							
(a) Executive Engineer,Solapur Irrigation Division, Solapur							
64	Name : **Hingani (K)** Tal. Karmala Dist. Solapur Date of completion:1974 Location: Longitude -75°24'30" Latitude - 18°16'00" Height :- **16.15 m.**	19.11.2020	Shri. M.T.Jadhvar EE,SID, Solapur	Outlet	1. One stem rod is bend (B5)	Necessary remedial measures should be done in consultation with mechanical organization.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
	Gross capacity 2.22 **Mcum** Sr.No.In Large Dam Register 2012:**MH09MH 0441**						
65	Name : **Kazikunbus** Tal. Akkalkot Dist. Solapur Date of completion:1992 Location: Longitude -**76°10'00''** Latitude - **17°43'00''** Height :- **20.00m.** Gross capacity 4.031**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH 1224**	22.05.2020 20.11.2020	Shri.R.K Jagtap & Shri. M.T.Jadhvar EE,SID, Solapur	Outlet	1. Stem rod is kniped by farmers hence gate is not in operation. (B5) 2. In head regulator stem rod is broken, repairing necessary (B5)	Necessary repairs be carried out in consultation with Mechanical orgasition.	Not Received
66	Name :**Mangi** Tal. Karmala Dist. Solapur Date of completion:**1966** Location: Longitude -75°17'00" Latitude -17°17'00" Height :-**22.95 m.** Gross capacity :**3.09 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0131**	29.05.2020 19.11.2020	Shri. M.T.Jadhvar & Shri. D.J. Kondekar EE,SID,Solapur	Embankment	1. Longitudinal cracks developed in embankment Ch 1621-1645m. variable depth approx. 1.2m (B4) 2. Relief wells are not in working condition (A5)	Original dam section should be restored They should be cleaned and made functional.	Not Received
67	Name :**Rajuri** Tal. Karmala Dist. Solapur Date of completion:**1981** Location: Longitude -**74°58'** Latitude -**18°22'** Height :-**19.29 m.** Gross capacity :**2.520 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0894**	29.05.2020 19.11.2020	Shri. M.T.Jadhvar & Shri. D.J. Kondekar EE,SID, Solapur	Tail Channel	1. Heavy retrogression is noticed on downstream of bar near divide wall. (A7)	Protective measures, as per necessity shall be undertaken to prevent progressive damage.	Not Received
(b)Executive Engineer Bhima Developement Division No.2, Solapur							

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
68	Name :**Ashti** Tal. Mohol Dist. Solapur Date of completion:-1883 Location : Longitude - **75°-26' 00''** Latitude - **17°47'30''** Height :-**17.60 m.** Gross capacity :23.01**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0014**	05.05.2020	Shri. R. N. kshirsagar EE BDD no.2 Solapur	Earthen Embankment	1. Cracks are observed at top of embankment in between ch. 2/240 to 2/385 m (B4) 2. Top of embankment not as per design section of dam. Ch 2340 m. to 2360 m (B1)	Necessary repairs should be carried out and dam section should be restored.	Not Received
Superintending Engineer, Bhima Canal Circle Solapur							
(c)Executive Engineer Minor Irrigaton Division No.1, Solapur							
69	Name :**Babhulgaon** Tal. Mohol Dist. Solapur Date of completion:-1993 Location : Longitude - **75°-46' 55''** Latitude - **18°19'23''** Height :-**16.93 m.** Gross capacity :6.40**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1620**	20.03.2020 20.11.2020	Shri. R.P.More EE,MID No.1 Solapur	Earthen Embankment Outlet	1. Boils, wet patches or water seepage slushiness is seen on d/s slope (**A1**) 2. Outlet well not in good condition &Silted fully. (A6)	Necessary repairs should be done to stop the leakage Well should be desilted	Not Received
70	Name :**PimpalgaonDhale** Tal. Barshi Dist. Solapur Date of completion:-2008 Location : Longitude - 75°47'40" Latitude - 18°10'10'' Height :-**18.70 m.** Gross capacity :12.66**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1840**	20.03.2020 20.11.2020	Shri. R.P.More EE,MID No.1 Solapur	Outlet	1. Stem rod for lifting gate is not straight (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.	Not Received
(2) Superintending Engineer, SataraProject Irrigation Circle, Satara							
(a) Executive Engineer, Minor Irrigation Division Satara							
71	**Mahind** Tal- Patan Dist- Satara	N.A N.A.	Shri.S.J. Hiray	W.W.Bar and Tail Channel	1. Retaining wall of right side of tail	Necessary repairs should be carried out.	Not Received

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
	Date of completion: **2000** Location: Longitude **73°54'13"** Latitude **17°22'05"** Height :**21.32 m.** Gross capacity- 2.404**Mcum** Sr.No.In Large Dam Register 2012: **MH09MH1838**		EE MID Satara	E.E.	channel is collapsed for length of 19m (A7) 2. Top width of dam as per design is 3.00m.Due to movement of live stock it is eroded and now top width remains 2.50m on average throughout the length of dam.(B1) 3. The portion of the longitudinal toe drain and exposed cross drains beyond the d/s toe of the dam are not in regular section and not freely draining.(B2) 4. Depression in embankment near head regulator is observed.A pit of size 3X3 m is formed. Also a pit is formed in u/s embankment at ch 155 to 165.	Original dam section should be restored Necessary repairs should be carried out.	

Table 2.8

ATR on Category-1 Deficiency in Class-I Dams (Private Owned)

SR.NO.	NAME OF DAM	DATE OF INSPECTION	MAIN COMPONENT OF DAM	SIGNIFICANT DEFICIENCIES NOTICED	REMEDIAL MEASURES SUGGESTED	IMPLEMENTATION STATUS
1	2	3	4	5	6	7
---------- NIL----------						

Table 2.9

ATR on Category-2 Deficiency in Class-I Dams (Private Owned)

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
	(1) Sahara India (AmbeyValley)Limited Pune						
1	**Name :Ambavane**(Gated) Tal. Mulashi Dist. Pune Year of completion : 2000 Location : Longitude 73°25'00" Latitude 18°40'00" Height : 38.76 m Gross Capacity : 8.575 Mcum Spillway capacity: 738 m³/sec Sr.No. in Large Dam Register MH09MH1898	07.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Main dam Body	1.Heavy leakages were observed on downstream side of NOF section at many places major water jets were also observed on NOF section near right side guide wall (A11)	It was also suggested to treat upstream side by adopting suitable remedial measures such as raking out joints and filling the voids by using suitable concrete or cement grouting or epoxy grouting etc	Not Received
2	**Name :Kolawali** (Ungated) Tal. Mulashi Dist. Pune Year of completion : 2000 Location : Longitude 73°25'00" Latitude 18°40'00" Height : 43.50 m Gross Capacity : 2.17 Mcum Spillway capacity: 90 m³/sec Sr. No. in Large Dam Registe :**MH09MH1903**	07.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Earth Dam section	1. Approach road up to the dam top and steps on downstream slope have not been provided (B6) 2. Heavy vegetation observed on the top of dam (B13)	Approach road should be provided. It should be cleaned periodically.	Not Received
3	**Name :Visakhar** (Ungated) Tal. Mulashi Dist. Pune Year of completion : 2006 Location : Longitude 73°25'00" Latitude 18°40'00"	07.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Earth Dam section	1.Stagnant water was observed on the downstream side on left side of spillway. (A2)	Source of the water should be verified	Not Received

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
	Height : 38 m Gross Capacity : 4.72 Mcum Spillway capacity: 245 m³/sec Sr. No. in Large Dam Registe :**MH09MH1904**						
(2) The Tata Power Co. Ltd. Lonavala							
4	**Name :Thokarwadi** (gated) Tal. Maval Dist. Pune Year of completion : 2006 Location : Longitude 73°30'34" Latitude 18°54'00'' Height : 59.44 m Gross Capacity : 363..70 Mcum Spillway capacity: 546 m³/sec Sr. No. in Large Dam Registe :**MH09MH0043**	08.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Dam body	1. The sign of leakages and sweating were observed with vegetation on downstream surface of NOF section (A15)	The records of leakages with respect to reservoir level needs to be prepared.	Not Received

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7	
5	**Name :Walwhan** (gated) Tal. Maval Dist. Pune Year of completion : 1916 Location : Longitude 73°25'25" Latitude 18°45'51" Height : 26.37 m Gross Capacity : 72.50 Mcum Spillway capacity: 546 m³/sec Sr. No. in Large Dam Registe :**MH09MH0036**	08.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Dam body	1.The sign of leakages and sweating were observed with vegetation on downstream surface o NOF section (A15)	The records of leakages with respect to reservoir leve needs to be prepared.	Not Received
6	**Name :Shirwata** (gated) Tal. Maval Dist. Pune Year of completion : 1920 Location : Longitude 73°28'41" Latitude 18°47'59" Height : 38.70 m Gross Capacity : 186.84 Mcum Spillway capacity: 593m³/sec Sr. No. in Large Dam Registe :**MH09MH0041**	08.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Dam body	1.There was leakage observed through the junction of overflow and non overflowsection.(A15) 2.Leakages/Sweating observed on d/s from ch 100m to 1970m.(A11)	The records of leakages with respect to reservoir leve needs to be prepared. Necessary remedial measures should be done	Not Received

Table 2.10

ATR on Category-1 Deficiency in Class-II Dams (Private Owned)

Sr.No.	Name of Dam	Date of Inspection	Main component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation Status
1	2	3	4	5	6	7
---------- NIL----------						

Table 2.11

ATR on Category-2 Deficiency in Class-II Dams (Private Owned

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation status
1	2	3	4	5	6	7	
(1) Commissioner,Municipal Corporation Kolhapur							
1.	Name :**Kalamba** Tal. Karveer Dist.Kolhapur Date of completion:**1983** Location: Longitude **74°21'27**″ Latitude **16°55'41**″ Height :**16.26**. **m.** Gross capacity **2.75 Mcum** Sr.No.In Large Dam Registe 2012:**MH09MH1015**	23.02.2021	Shri N. S. Dusane, EE, DSD1, Nashik	Earth Dam	1. Earthen section seems to be undersection in certain portion .(B1) 2. Dam top seems to be undulating .(B1)	Superimpose existing cross section and L section on design cross and L section at every 30 m. C/C to ascertain whether earthen embankment is undersection or not. Communicate facts to DSO, Nashik	Not Received
2.	Name :**Rankala** Tal. Karveer Dist.Kolhapur Date of completion:**1883** Location: Longitude **73°40'00**″ Latitude **16°43'00**″ Height :**15.00**. **m.** Gross capacity **4.30 Mcum** Sr.No.In Large Dam Registe 2012:**MH09MH0010**	23.02.2021	Shri N. S. Dusane, EE, DSD1, Nashik		1. Waterway is blocked due to pipes, stones and ongoing concreting in tail channel.	Sufficient waterway is must to pass safely overflow discharge. Hence clear the obstacles and encroachments in tail channel.	Not Received
(2)	**INS Shivaji ,Indian Navy , Lonavala.**						
3.	Name : **New Shivsagar** Tal. **Mawal** Dist. **Pune** Date of completion:**1989** Location: Longitude- **73°52'00**″ Latitude **18°45'00** Height :**2570 m** Gross capacity **1.81 Mcum** Sr.No.In Large Dam Registe **MH09MH1230**	7.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Body of dam Overflow Section	1. Leakages was observed through dam masonry at ch 420-435m and 470m. (A11) 2. Spots of leaching and leakage was observed through overflow section. (A15) 3. Heavy leakage was observed through	Necessary actions should be taken Necessary actions should be taken	Not Received

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested	Implementation status
1	2	3	4	5	6	7	
					junction of overflow section and non overflowsection.(A3)		
4	Name : **New Shivsagar** Tal. **Mawal** Dist. **Pune** Proposed for updation in NRLD 2018	7.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik	Masonry Section WW Bar	1.Water jets and leakages was observed through masonry section.(A11) 2. Leakage was observed through junction of earther embankment and WW bar.(A3) 3. The expansion joint of WW bar was seen opened. Heavy leakage was seen through it.(B7)	Necessary actions should be taken Necessary actions should be taken Necessary actions should be taken	Not Received
(2)Tata Power Company Ltd Lonawala,Dist Pune							
5	Name : **Lonavala** Tal. **Mawal** Dist. **Pune** Date of completion:**1916** Location: Longitude- **73°24'07"** Latitude **18°44'00** Height :**15.35 m** Gross capacity **11.50 Mcum** Sr.No.In Large Dam Registe **MH09MH0035**	8.10.2020	Shri.Y. K. Bhadane, S.E. D.S.O, Nashik		1. Sweating on d/s side of dam was observed. Leakage through dam masonry was observed at some places.(A15)	Necessary remedial measures should be carried out.	Not Received

Part-3

Dam Health Status Report of Pre & Post Monsoon 2021

Part-3: Dam Health Status Report of Pre & Post Monsoon 2021

3.1 General:

Dam Safety Division No. 1 under Dam Safety Organization, Nashik excersies compilation of Annual Pre & Post Inspection Reports of Dams submitted by Field Offices as well as Test Inspection Reports of Selected Dams carried out by Dam Safety Organization, Nashik in the form of Annual Dam Health Status Report (ADHSR).

3.2 Inspection Reports submitted by Field Offices:

In all there are 262 Government owned Dams & 17 Private owned Dams are monitored by Dam Safety Organization, Nashik from safety point of view.

262 Government owned Dams constitute 69 Class-I & 193 Class-II Dams. 17 Private owned Dams constitute 7 Class-I & 10 Class-II Dams.

Government owned Dams: Out of 262 Dams, Pre Monsoon Reports were received from 259 Dams. However, out of 262 Dams, Post Monsoon Reports were received from 229 Dams. 36 Dams Reports were not received in DSO. [Ref. Table 3.1 & 3.2]

3.3 Test Dam Inspection by Dam Safety Organisation:

Test Inspection Programme for Test Inspection of selected Dams is approved by Director General, DTHRS, MERI, Nashik.

As per approved Annual Test Dam Inspection Programme, Class-I Dams are inspected by SE, DSO along with EE, DSD-1& Class-II Dams are inspected by EE, DSD-1, Nashik.

On similar lines in case of Private owned Dams, full fledged inspection of Class-I Dam is carried out by SE, DSO along with EE,DSD-1& Class-II Dam is carried out by EE, DSD-1, Nashik.

Government owned Dams : Despite of Covid-19 pandemic (6 out of 8 Class-I, 19 out of 19 Class-II & 1 century old Class-III (Bhadalwadi) as proposed for test inspection were inspected by team of Dam Safety Organization, Nashik. [Ref. Table 3.5]

Private owned Dams : Post Monsoon Inspections for 14 Dams were carried out by DSO. [Ref. Table 3.3 & 3.4]

Following team of officers have inspected targeted Dams in Pune Region

1) Shri M.S.Amale,Superintending Engineer, Dam Safety Organization, Nashik

2) Shri U.T.Murkute, Executive Engineer, Dam Safety Division No.1, Nashik

3) Shri V.Z.Nemade, Sub Divisional Officer, Dam Safety Division No.1, Nashik

4) Shri. H.P.Deokate, Junior Engineer, Dam Safety Division No.1,Nashik

5) Shri. R.R.Salunkhe, Assistant Engineer-II, Dam Safety Division No.1, Nashik

And Following team of officers have taken efforts to prepare this report.

1) Shri M.S.Amale,SuperintendingEngineer Dam Safety Organization, Nashik

2) Shri U.T.Murkute, Executive Engineer, Dam Safety Division No.1, Nashik

3) Shri R.A.Pawar, Sub Divisional Officer, Dam Safety Division No.1, Nashik

4) Shri M.R.Rasal, Sub Divisional Officer, Dam Safety Division No.1, Nashik

5) Shri P.N.Pawar, Sub Divisional Officer, Dam Safety Division No.1, Nashik

6) Shri V.Z.Nemade, Sub Divisional Officer, Dam Safety Division No.1, Nashik

7) Shri. H.P.Deokate, Junior Engineer, Dam Safety Division No.1, Nashik

8) Shri. R.R.Salunkhe, Assistant Engineer-II, Dam Safety Division No.1, Nashik

3.4 Health Status of Class-I & Class-II Dams (Government & Private Owned)

This report excerpts details of Deficiencies received from Pre & Post Monsoon Inspections Reports based on detailed inspections carried out by concerned field Superintending Engineer for Class-I Dams & Executive Engineer for Class-II Dams.

And it also covers Test Inspection carried out by team of officers from Dam Safety Organization, Nashik.

Sr. No.	Category	Total Dams		Reports received in DSO				Cat 1				Cat 2				Cat 3			
	Class	I	II	I		II		I		II		I		II		I		II	
	No. of			Pre	post	Pre	post	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency	Dam	Deficiency
1	WRD	69	193	69	65	190	164	0	0	0	0	65	469	111	187	69	996	191	1645
2	Private	7	10	0	4	4	5	0	0	0	0	4	5	7	17	4	18	10	62
	Total	76	293	69	69	194	169	0	0	0	0	69	474	118	204	73	1014	201	1707

3.5 A Graphical Representation of Deficiencies attended, Submission of Pre/Post Monsoon Reports, Category wise Deficiencies, Class wise of Deficiencies is appended in Annexure I.

3.6 Selected Snapshots of DSO Test Inspection Test Inspections are compiled in Annexure II.

3.7 Conclusions :

3.7.1 Frequent Deficiencies Class-I Dams

a) **B9:** Instruments not in working condition. (48 Dams)
b) **B 5:** Outlet gates not functioning properly. Stem rod is bent (Service gate / Emergency gate/Stop log gate/sluice gate) (20 Dams)
c) **A 14:** EDA / Stilling basin damaged/Hydraulic performance not good.(18 Dams)
d) **A 11:** Sweating / seepages through D/S of masonry dam Leakage /Seepage through dam body. (22 Dams)
e) **A 10 :** Heavy leakages through porous pipes/ through dam body in gallery or monolith joints (16)

3.7.2 Frequent Deficiencies Class-II Dams

a) **B 5:** Outlet gates not functioning properly. Stem rod is bent(Service gate/Emergency gate/Stop log gate/sluice gate). (55 Dams)
b) **B7:**Waste weir/waste weir bar not in good condition/coping damaged/leakage through waste weir.W.W. Bar is damaged / Coping of w.w. Bar damaged. (20 dams)
c) **A6:** Outlet well is damaged/not in good condition /cracks observed/jets of water in well. (18 dams)
d) **A 2**: Standing pool / Ponding / Water Logging / Slushy condition on D/S of Dam (17 Dams)
e) **B 1** Dam section is not as per design.(19 Dams)

3.8 Points of Attention :

1) This overview provides condensed summary of deficiencies noticed in the Pre & Post Monsoon Inspection Reports Received in DSO & also during test inspection conducted by DSO Officials. Field Officers / Owners of the Dams are required to pay attention to Deficiencies pointed out in ADHSR to maintain Dams in Safe condition.

2) The Chief Engineers are requested to flag this issue and compel all Superintending Engineer & Executive Engineer of concerned Dams to carry out periodic inspections and submit report to D.S.O. in time.

Table 3.1

Status of Receipt of Pre & Post Monsoon Inspection Reports 2021

Sr. No.	Name of Office	Expected Inspection Report in DSO			Pre Monsoon Inspection Report Received in time (By 30th June)			Pre Monsoon Inspection Report Not Received in time (By 30th June)			Pre Monsoon Inspection Report Not Received			Post Monsoon Inspection Report Received in time (By 31st Dec)			Post Monsoon Inspection Report Not Receivedin time (By 31st Dec)			Post Monsoon Inspection Report Not Received		
		Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	A) Chief Engineer, Water Resources Department (WR), Pune																					
1	SE, PIC, Pune	15	47	62	0	04	04	15	42	57	0	2	2	00	00	00	15	20	35	0	27	27
2	SE, PIPC, Pune	02	01	03	02	0	02	00	00	00	0	1	1	00	0	00	02	01	03	0	0	0
3	SE SIC Sangli	03	53	56	03	0	03	00	53	53	0	0	0	0	0	0	03	53	56	0	0	0
4	SE KIC Kolhapur	22	39	61	0	0	0	22	39	61	0	0	0	0	0	0	21	39	60	1	0	1
5	SE SIC Satara	06	20	26	06	00	06	0	20	20	0	0	0	0	1	1	06	18	24	0	1	1
	B) Chief Engineer, Water Resources Department (SP), Pune																					
6	SE Kukadi IC Pune	08	12	20	0	0	0	08	12	20	0	0	0	0	12	12	08	0	08	0	0	0
7	S.E.SIPC. Satara	09	02	11	03	2	5	06	00	06	0	0	0	0	02	02	09	00	09	0	0	0
8	SE &Adm, CADA, Solapur	03	16	19	0	5	5	03	11	14	0	0	0	0	01	01	0	15	15	3	0	3
9	SE,BCC, Solapur	0	03	03	0	3	3	00	00	00	0	0	0	0	02	02	0	00	00	0	1	1
10	SE, OIC Osmanabad	01	0	01	1	0	1	0	0	0	0	0	0	0	0	0	01	0	01	0	0	0
	Total	**69**	**193**	**262**	**15**	**14**	**29**	**54**	**177**	**231**	**0**	**3**	**3**	**00**	**18**	**18**	**63**	**146**	**211**	**4**	**29**	**33**

Table 3.2

Dams for which Inspection Reports of 2021 is Not Received in DSO, Nashik

Sr. No.	Pre & Post Monsoon Report Not Received (Both)		Either Pre or Post Monsoon Inspection Report Not Received			
			Pre Monsoon		Post Monsoon	
	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II
1	3	3	4	5	6	7
	A) Chief Engineer, Water Resources Department (WR), Pune					
	I) Superintending Engineer,Pune Irrigation Circle, Pune					
	1) Executive Engineer, Pune Irrigation Division, Pune					
1		Adale				
2						Chinchwad
3						Divale
4						Gadadawane
5						Hadashi-1
6						Hadashi-2
7						Khamboli
8						Mahakoshi
9						Marnewadi
10						NaigaonDevgaon
11						Pimpali
12						Rihe
13						Shere
14						Shetphal

Sr. No.	Pre & Post Monsoon Report Not Received (Both)		Either Pre or Post Monsoon Inspection Report Not Received			
			Pre Monsoon		Post Monsoon	
	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II
1	3	3	4	5	6	7
15						Urawade
16						Walen
17						Wagajwadi
18						Bhongawali
	2) Executive Engineer, Lift Irrigation Management Division, Pune					
19		Malwandi				
	3)Executive Engineer, Nira Right Bank Canal Division, Phaltan					
20						Girzani
21						Mhasavad
22						Naigaon
23						Nimgaon
24						Phondshiras
25						Sangavi Shirval
26						Tisangi
27						Vadgaon
	II) Superintending Engineer,Pune Irrigation Project Circle, Pune					
	1) Executive Engineer, Bhama Askhed Dam Division, Pune.					
28				Palsunde		
	III) Superintending Engineer,Kolhapur Irrigation Circle, Kolhapur					
	1) Executive Engineer, Kolhapur Irrigation Division (S), Kolhapur.					
29					Megholi	

Sr. No.	Pre & Post Monsoon Report Not Received (Both)		Either Pre or Post Monsoon Inspection Report Not Received			
			Pre Monsoon		Post Monsoon	
	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II
1	3	3	4	5	6	7
	IV) Superintending Engineer,Satar irrigation Circle, Satara					
	1) Executive Engineer, Koyna Irrigation Division, Koyananagar.					
30						Chaphal
	A)Chief Engineer, Water Resources Department (SP), Pune					
	I) Superintending Engineer,Satara Irrigation Project Circle, Satara					
	1) Executive Engineer, Minor irrigation Division,Solapur					
31						Gholasgaon
	II) Superintending Engineer,Bhima Canal Circle, Solapur					
	1) Executive Engineer, Solapur Irrigation Division, Solapur					
32					Ekrukh	
33					Bori	
	2) Executive Engineer, Ujjani Dam Management Division, Bhimanagar					
34					Ujjani	
	00	**02**	**00**	**01**	**04**	**29**

Table 3.3

Status of Pre & Post Monsoon Inspection 2021 by DSO, Nashik (Private Owned)

Sr. No.	Name of Office	To be Inspected by DSO			Pre Monsoon Inspection in time (By 30th June)			Pre Monsoon Inspection Not in time (By 30th June)			Pre Monsoon Not Inspected by DSO			Post Monsoon Inspection in time (By 31st Dec)			Post Monsoon Inspection Not in time (By 31st Dec)			Post Monsoon Not Inspected by DSO		
		Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	**TATA Power Company Ltd**	4	2	**6**	0	0	**0**	0	0	**0**	4	2	**6**	4	2	**6**	0	0	**0**	0	0	**0**
2	**SAHARA Pune**	3	0	**3**	0	0	**0**	0	0	**0**	3	0	**3**	0	0	**0**	0	0	**0**	3	0	**3**
3	**INS Shivaji**	0	2	**2**	0	0	**0**	0	2	**2**	0	0	**0**	0	2	**2**	0	0	**0**	0	2	**2**
4	**KMC Kolhapur**	0	2	**2**	0	0	**0**	0	0	**0**	0	2	**2**	0	2	**2**	0	2	**2**	0	0	**0**
5	**KagalNagarparishad,Kagal**	0	1	**1**	0	0	**0**	0	0	**0**	0	1	**1**	0	1	**1**	0	1	**1**	0	0	**0**
6	**VikramsinghGhatge**	0	1	**1**	0	0	**0**	0	0	**0**	0	1	**1**	0	1	**1**	0	1	**1**	0	0	**0**
7	**Symbiosis, Lavale, Pune**	0	2	**2**	0	0	**0**	0	2	**2**	0	0	**0**	0	2	**2**	0	2	**2**	0	0	**0**

Table 3.4

Dams for which Inspection Not carried out by DSO, Nashik (Private Owned)

Sr. No.	Pre & Post Monsoon Report Not Received (Both)		Either Pre or Post Inspection Not Received			
			Pre Monsoon		Post Monsoon	
	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II
1	3	3	4	5	6	7
			A) TATA Power Company Ltd			
1			Thokarwadi			
2			Walvhan			
3			Shirwata			
4			Mulashi			
5				Lonavala		
6				Kundali		
	B) SAHARA Pune					
7	Ambavane					
8	Visakhar					
9	Kolawali					
						C) INS Shivaji
10						New Shivsagar
11						Old Shivsagar
			D) KMC Kolhapur			
12				Rankala		
13				Kalamba		
			E)KagalNagarparishad,Kagal			
14				JaysingraoTalao		
			F)VikramsinghGhatge			
15				Sir PirajiraoTalao		
						G)Symbiosis, Lavale, Pune
16						Upper Tank
17						Lower Tank

Table 3.5

Dams Inspected by Dam Safety Organization, Nashik (2021-22)

Sr. No	Name of Dam	Date of Inspection	Sr. No	Name of Dam	Date of Inspection
1	2	3	4	5	6
Class - I Dams			**Class - II Dams**		
[A]Chief Engineer(W.R.)Water Resources Department Pune					
(1)Superintending Engineer, Pune Irrigation Circle, Pune					
(a)Executive Engineer , Pune Irrigation Division, Pune					
1	Nira Deoghar	17.3.2022	1	Rihe	27.8.2021
			2	Shetphal	30.1.2022
(b)**Executive Engineer,Khadakwasla Irrigation Division, Pune**					
2.	Khadakwasla	18.3.2022	3	Palasdeo	31.1.2022
			4	Shirsuphal	31.1.2022
			5	Bhadalwadi	31.1.2022
(c)**Executive Engineer,Chaskman Irrigation Division, Pune**					
3.	Bhamaaskhed	18.3.2022	6	Kadus	22.10.2021
(d)**Executive Engineer,Lift Irrigation Mangaement Division, Pune**					
			7	Virnalla	30.3.2022
(e)Executive Engineer, Nira Right Bank Canal Division, Phaltan ,Dist. Satara					
			8	Phondshiras	30.1.2022

Sr. No	Name of Dam	Date of Inspection	Sr. No	Name of Dam	Date of Inspection
1	2	3	4	5	6
(2)Superintending Engineer, Sangli Irrigation Circle, Sangli					
(a) Executive Engineer, Sangli Irrigation Division,Sangli					
NIL			9	Birnal	28.1.2022
			10	Daribadchi	29.1.2022
			11	Dodanalla	29.1.2022
			12	Dudhebhavi	28.1.2022
			13	Pratappur	28.1.2022
			14	Shegaon	29.1.2022
(b)Executive Engineer, Tembhu Lift Irrigation Management Division Oglewadi, Karad					
NIL			15	Buddhihal	29.1.2022
(5)Superintending Engineer Satara Irrigation Circle, Satara					
a)Executive Engineer, Krishna Irrigation Division Satara					
	Kanher	17.3.2022	16	Ranand	30.1.2022
(b)Executive Engineer, Satara Irrigation Division Satara					
	Dhom Balakwadi	17.3.2022			
[B]Chief Engineer(S.P.) Water Resources Department Pune					
(1)Superintending Engineer Kukadi Irrigation Circle Pune					
(a) Executive Engineer, Kukadi Irrigation Div. 1 Narayangaon					

Sr. No	Name of Dam	Date of Inspection	Sr. No	Name of Dam	Date of Inspection
1	2	3	4	5	6
	Vadaj	18.3.2022	17	Ballalwadi	22.10.2021
			18	Otur Waghdara	22.10.2021
(3)Superintending Engineer & Administrator, C.A.D.A. Solapur					
(a) Executive Engineer, Bhima Irrigation Division, Pandharpur					
			19	Chincholi	29.1.2022
(4) Superintending Engineer, Bhima Canal circle,Solapur					
(a) Executive Engineer, Minor Irrigation Division No.1, Solapur					
NIL			20	Pimpalgaon Dhale	31.1.2022
Private Dam					
A**) TATA Power Company Ltd**					
1	Thokarwadi	9.12.2021			
2	Walvhan	21.12.2021			
3	Shirwata	21.12.2021			
4	Mulashi	9.12.2021			
			1	Kundali	21.12.2021
			2	Lonavala	8.12.2021
B) INS Shivaji					
			3	New Shivsagar	26.8.2021
			4	Old Shivsagar	26.8.2021

Sr. No	Name of Dam	Date of Inspection	Sr. No	Name of Dam	Date of Inspection
1	2	3	4	5	6
C) KMC Kolhapur					
			5	Rankala	28.1.2022
			6	Kalamba	28.1.2022
D) VikramsinghGhatge					
			7	Sir Pirajirao	28.1.2022
E)Kagal Nagar Parishad, Kagal					
			8	JaisingraoTalao	28.1.2022
F) Symbiosis, Lavale,Pune					
			9	Lower Tank	27.8.2021
			10	Upper Tank	27.8.2021

Table 3.6

Deficiency Classification (No.of Dam wise)

Sr. No	Authority	Total Number of Dams			Number of Dams (Class-I)			Number of Dams (Class-II)		
		Class-I	Class-II	Total	Def. Cat-1	Def.Cat-2	Def. Cat-3	Cat-1	Cat-2	Cat-3
	Water Resources Department Dams									
[A]	**CE, WRD, Pune**	**48**	**160**	**208**	0	**47**	**48**	0	**91**	**158**
(I)	SE, PIC, Pune	15	47	62	0	15	15	0	35	45
1	EE, PID, Pune	6	18	24	0	6	6	0	16	17
2	EE, LIMD,Pune	1	8	9	0	1	1	0	3	7
3	EE, KID, Pune	4	6	10	0	4	4	0	5	6
4	EE, NRBC, Phaltan	1	11	12	0	1	1	0	7	11
5	EE,CID, Pune	3	4	7	0	3	3	0	4	4
(II)	SE,PIPC, Pune	2	1	3	0	2	2	0	0	1
1	EE, BADD, Pune	1	1	2	0	1	1	0	0	1
2	EE, NiraDeoghar, Sangvi	1	0	1	0	1	1	0	0	0
(III)	SE, SIC, Sangli	3	53	56	0	3	3	0	24	53
1	EE, SID, Sangli	1	25	26	0	1	1	0	9	25
2	EE, TLIMD, Karad	1	27	28	0	1	1	0	15	27
3	EE, TPD, Devrashtre	1	1	2	0	1	1	0	0	1

Sr. No	Authority	Total Number of Dams			Number of Dams (Class-I)			Number of Dams (Class-II)		
		Class-I	Class-II	Total	Def. Cat-1	Def.Cat-2	Def. Cat-3	Cat-1	Cat-2	Cat-3
(IV)	SE, KIC, Kolhapur	22	39	61	0	21	22	**0**	16	39
1	EE, KID (N), Kolhapur	9	16	25	0	9	10	0	7	16
2	EE, KID (S), Kolhapur	8	23	31	0	7	7	0	9	23
3	EE, MPD-2, Kolhapur	5	0	5	0	5	5	0	0	0
(V)	SE, SIC, Satara	6	20	26	0	6	6	0	16	20
1	EE, KID, Satara	2	18	20	0	2	2	0	14	18
2	EE, Koyna ID, Koynanagar	2	2	4	0	2	2	0	2	2
3	EE, SID, Satara	2	0	2	0	2	2	0	0	0
[B]	CE, SP, Pune	21	33	54	0	18	20	0	20	33
(I)	SE,KukadiIC,Pune	8	12	20	0	8	8	0	7	12
1	EE, KID-1, Narayangaon	5	12	17	0	4	4	0	7	12
2	EE, KID-2,Shrigonda	2	0	2	0	2	2	0	0	0
3	EE, Dimbhe DD, Manchar	1	0	1	0	2	2	0	0	0
(II)	SE, CADA, Solapur	3	16	19	0	1	2	0	9	16
1	EE, SID, Solapur	2	11	13	0	0	1	0	6	11
2	EE, BID, Pandharpur	0	4	4	0	0	0	0	2	4
3	EE, BDD-2, Solapur	0	1	1	0	0	0	0	1	1
4	EE, UDD, Bhimanagar	1	0	1	0	1	1	0	0	0

Sr. No	Authority	Total Number of Dams			Number of Dams (Class-I)			Number of Dams (Class-II)		
		Class-I	Class-II	Total	Def. Cat-1	Def.Cat-2	Def. Cat-3	Cat-1	Cat-2	Cat-3
(III)	SE, BCC, Solapur	0	3	3	0	0	0	0	3	3
1	EE, MID-1, Solapur	0	3	3	0	0	0	0	3	3
(IV)	SE, SIPC,Satara	9	2	11	0	8	9	0	1	2
1	EE, MID, Satara	5	2	7	0	5	5	0	1	2
2	EE, DCD, Satara	2	0	2	0	1	2	0	0	0
3	EE, KCD, Satara	1	0	1	0	1	1	0	0	0
4	EE,UDD,Satara	1	0	1	0	1	1	0	0	0
(V)	SE, OIC, Osamanabad	1	0	1	0	1	1	0	0	0
1	EE, SCD,Paranda	1	0	1	0	1	1	0	0	0
	WRD Total	**69**	**193**	**262**	**0**	**65**	**69**	**0**	**111**	**191**
	Private Dams									
1	TATA Power Company Ltd	4	2	6	0	4	4	0	1	2
2	SAHARA Pune	3	0	3	0	0	0	0	0	0
3	INS Shivaji	0	2	2	0	0	0	0	2	2
4	KMC Kolhapur	0	2	2	0	0	0	0	2	2
5	KagalNagarparishad,Kagal	0	1	1	0	0	0	0	0	1
6	VikramsinghGhatge	0	1	1	0	0	0	0	0	1
7	Symbiosis, Lavale, Pune	0	2	2	0	0	0	0	2	2

Sr. No	Authority	Total Number of Dams			Number of Dams (Class-I)			Number of Dams (Class-II)		
		Class-I	Class-II	Total	Def. Cat-1	Def.Cat-2	Def. Cat-3	Cat-1	Cat-2	Cat-3
	Private Total	**7**	**10**	**17**	**0**	**4**	**4**	**0**	**7**	**10**
	Grand Total	**76**	**203**	**279**	**0**	**69**	72	**0**	**118**	**201**

Note - 1. Out of 193 Govt. owned Class-II Dams, Only 164 Dams Post Monsoon Report were received in DSO and 29 Class-II Dams Post Monsoon Report were not received in DSO.

Table 3.7

Deficiency Classification (No. of Deficiency wise)

Sr. No	Authority	No. of Dams having Deficiencies						Number of Deficiencies								
		Cat-1		Cat-2		Cat-3		Category–1			Category–2			Category–3		
		Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total
	Water Resources Department Dams															
[A]	**CE, WRD, Pune**	**0**	**0**	**47**	**91**	**47**	**158**	**0**	**0**	**0**	**326**	**148**	**464**	**698**	**1362**	**2060**
(I)	SE, PIC, Pune	0	0	15	35	15	45	0	0	0	168	53	221	245	384	629
1	EE, PID, Pune	0	0	6	16	6	17	0	0	0	53	22	75	102	173	275
2	EE, LIMD,Pune	0	0	1	3	1	7	0	0	0	2	4	6	14	55	69
3	EE, KID, Pune	0	0	4	5	4	6	0	0	0	50	11	61	61	46	107
4	EE, NRBC, Phaltan	0	0	1	7	1	11	0	0	0	14	8	22	17	70	87
5	EE,CID, Pune	0	0	3	4	3	4	0	0	0	49	8	57	51	40	91
(II)	SE,PIPC, Pune	0	0	2	0	2	1	0	0	0	28	0	28	19	3	22
1	EE, BADD, Pune	0	0	1	0	1	1	0	0	0	26	0	26	10	3	13
2	EE, NiraDeoghar, Sangvi	0	0	1	0	1	0	0	0	0	2	0	2	9	0	9
(III)	SE, SIC, Sangli	0	0	3	24	3	53	0	0	0	6	39	45	29	491	520

Sr. No	Authority	No. of Dams having Deficiencies						Number of Deficiencies								
		Cat-1		Cat-2		Cat-3		Category–1			Category–2			Category–3		
		Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total
1	EE, SID, Sangli	0	0	1	9	1	25	0	0	0	4	17	21	10	194	204
2	EE, TLIMD, Karad	0	0	1	15	1	27	0	0	0	1	22	23	11	286	297
3	EE, TPD, Devrashtre	0	0	1	0	1	1	0	0	0	1	0	1	8	11	19
(IV)	SE, KIC, Kolhapur	0	0	21	16	22	39	0	0	0	72	20	82	301	298	599
1	EE, KID (N), Kolhapur	0	0	9	7	9	16	0	0	0	48	10	48	142	104	246
2	EE, KID (S), Kolhapur	0	0	7	9	8	23	0	0	0	10	10	20	94	194	288
3	EE, MPD-2, Kolhapur	0	0	5	0	5	0	0	0	0	14	0	14	65	0	65
(V)	SE, SIC, Satara	0	0	6	16	6	20	0	0	0	52	36	88	104	186	290
1	EE, KID, Satara	0	0	2	14	2	18	0	0	0	21	34	55	38	166	204
2	EE, Koyna ID, Koynanagar	0	0	2	2	2	2	0	0	0	13	2	15	25	20	45
3	EE, SID, Satara	0	0	2	0	2	0	0	0	0	18	0	18	41	0	41
[B]	CE, SP, Pune	0	0	18	20	21	33	0	0	0	143	39	182	298	283	581
(I)	SE,KukadiIC,Pune	0	0	8	7	8	12	0	0	0	76	13	89	141	109	250
1	EE, KID-1, Narayangaon	0	0	5	7	5	12	0	0	0	39	13	52	80	109	189

Sr. No	Authority	No. of Dams having Deficiencies						Number of Deficiencies								
		Cat-1		Cat-2		Cat-3		Category–1			Category–2			Category–3		
		Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total
2	EE, KID-2,Shrigonda	0	0	2	0	2	0	0	0	0	25	0	25	42	0	42
3	EE, Dimbhe DD, Manchar	0	0	1	0	1	0	0	0	0	12	0	12	19	0	19
(II)	SE, CADA, Solapur	0	0	1	9	3	16	0	0	0	10	14	24	38	127	165
1	EE, SID, Solapur	0	0	0	6	2	11	0	0	0	0	8	8	24	88	112
2	EE, BID, Pandharpur	0	0	0	2	0	4	0	0	0	0	3	3	0	30	30
3	EE, BDD-2, Solapur	0	0	0	1	0	1	0	0	0	0	3	3	0	9	9
4	EE, UDMD, Bhimanagar	0	0	1	0	1	0	0	0	0	10	0	10	14	0	14
(III)	SE, BCC, Solapur	0	0	0	3	0	3	0	0	0	0	7	7	0	26	26
1	EE, MID-1, Solapur	0	0	0	3	0	3	0	0	0	0	7	7	0	26	26
(IV)	SE, SIPC,Satara	0	0	8	1	9	2	0	0	0	45	5	50	98	21	119
1	EE, MID, Satara	0	0	5	1	5	2	0	0	0	29	5	34	67	21	88
2	EE, DCD, Satara	0	0	1	0	2	0	0	0	0	3	0	5	13	0	13
3	EE, KCD, Satara	0	0	1	0	1	0	0	0	0	11	0	11	13	0	13
4	EE,UDD,Satara	0	0	1	0	1	0	0	0	0	2	0	0	5	0	5

Sr. No	Authority	No. of Dams having Deficiencies						Number of Deficiencies								
		Cat-1		Cat-2		Cat-3		Category–1			Category–2			Category–3		
		Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Class-I	Class-II	Total	Class-I	Class-II	Total	Class-I	Class-II	Total
(V)	SE, OIC, Osamanabad	0	0	1	0	1	0	0	0	0	12	0	12	21	0	21
1	EE, SKD,Paranda	0	0	1	0	1	0	0	0	0	12	0	12	21	0	21
	Govt Total	**0**	**0**	**65**	**111**	**69**	**191**	**0**	**0**	**0**	**469**	**187**	**656**	**996**	**1645**	**2641**
	Private Dam															
1	TATA Power Company Ltd	0	0	4	1	4	2	0	0	0	5	1	6	18	10	28
2	SAHARA Pune	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	INS Shivaji	0	0	0	2	0	2	0	0	0	0	7	7	0	10	10
4	KMC Kolhapur	0	0	0	2	0	2	0	0	0	0	2	2	0	14	14
5	KagalNagarparishad,Kagal	0	0	0	0	0	1	0	0	0	0	0	0	0	8	8
6	VikramsinghGhatge	0	0	0	0	0	1	0	0	0	0	0	0	0	9	9
7	Symbiosis, Lavale, Pune	0	0	0	2	0	2	0	0	0	0	7	7	0	11	11
	Private Total	**0**	**0**	**4**	**7**	**4**	**10**	0	0	0	5	17	22	18	62	80
	Grand Total	0	0	69	118	72	201	0	0	0	474	204	668	1014	1707	2721

Note-1. No. of Deficiencies are from 262 Pre Monsoon Reports (Class-I /69 + Class-II /191) and 229 Post Monsoon Reports (Class-I /65 + Class-II /164) received in DSO.

Table 3.8

Category-1 Deficiency Classification (Dam wise)

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
Class - I Dams			Class - II Dams		
---------- NIL ----------					

Table 3.9

Category-2 Deficiency Classification (Dam wise)

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
Class - I Dams			**Class - II Dams**		
[A]Chief Engineer(W.R.)Water Resources Department Pune					
(1)Superintending Engineer, Pune Irrigation Circle, Pune					
(a)Executive Engineer , Pune Irrigation Division, Pune					
1	Jadhavwadi	9	1	Mahakoshi	2
2.	Nira devghar	8	2	Maranewadi	2
3.	Bhatghar	12	3	Urawade	1
4.	Vadivale	10	4	Rihe	4
5.	Andravalley	9	5	Hadashi	1
6.	Kasarsai	5	6	Divale	1
			7	Naigaon	1
			8	Wagajwadi	1
			9	Bhongavali	1

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
			10	Gadavane	2
			11	Hadashi	1
			12	Khamboli	1
			13	Pimpoli	1
			14	shere	1
			15	walen	1
			16	Chinchwad	1
(b)Executive Engineer ,Chaskaman Irrigation division, Pune					
7.	Aralakalmodi	14	17	Nimgaon Mhalungi	1
8.	BhamaAskhed	8	18	Dahiwadi	2
9.	Chaskaman	27	19	Kadus	4
			20	Alegaon Pagaa	1
c)Executive Engineer , Lift Irrigation Management Division, Pune					
10.	Nazare	2	21	Garade	1
			22	Pilanwadi	1

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
			23	Thitewadi	2
d) Executive Engineer ,Khadakwasala Irrigation Division, Pune					
11.	Panshet	5	24	Matoba	3
12.	Khadakvasla	13	25	Shirsuphal	2
13.	Warasgaon	15	26	Bhugaon	1
14.	Pawana	17	27	Malad	2
			28	Palasdev	3
(e)Executive Engineer, Nira Right Bank Canal Division, Phaltan ,Dist. Satara					
15.	Veer	14	29	Naigaon	1
			30	Banganga	2
			31	Mhasavad	1
			32	Girzani	1
			33	hingangaon	1
			34	Tambave	1
			35	Phondshiras	1
(2)Superintending Engineer, Pune Irrigation Project Circle, Pune					
(a) Executive Engineer, Bhama Askhed dam division, Pune					
16.	Temghar	26			

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
(b)Executive Engineer, Niradevghar Project Division, Sangavi(Bhatghar),Tal.Bhor,Dist.Pune					
17.	Gunjavani	2			
(3)Superintending Engineer Sangli Irrigation circle, Sangli					
(a)Executive Engineer ,Sangli Irrigation Division, Sangli					
18.	Morna (Shirala)	4	36	Antri	1
			37	Soradi	1
			38	Tippehalli	1
			39	Bhiwargi	2
			40	Daribadchi	2
			41	Dodanalla	4
			42	Shegaon	2
			43	Pratappur	1
			44	Birnal	3
(b)Executive Engineer ,Tembhu Lift Irrigation Project Management Division, Ogalewadi					
19.	Yevati masoli	1	45	Chinchani	1
			46	Atpadi	1
			47	Buddhihal	3

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
			48	Dighanchi	1
			49	Ghanand	1
			50	Hingangaon	1
			51	Kadegaon	4
			52	Karandewadi	2
			53	Morale	1
			54	Nimbhavade	2
			55	Pare	1
			56	Ped	1
			57	vejegaon	1
			58	Walunj	1
			59	Mahadikwadi	1
(c)Executive Engineer ,Takari Pump House Division No.1, Devrashtre					
20.	Satpewadi barrage	1			

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
(4)Superintending Engineer Kolhapur Irrigation Circle,Kolhapur					
(a)Executive Engineer , Medium Project Division No2, Kolhapur					
21.	Ghatprabha(Phatakwadi	6			
22.	Chikotra	2			
23.	Jangamhatti	2			
24.	Keloshi Bk.	1			
25.	Jambre	3			
(b)Executive Engineer, Kolhapur Irrigation Dn.(North) Kolhapur					
26.	Kadavi	3	60	Drayachi vadgaon	1
27.	Kasari	1	61	Kasarde	2
28.	Kumbhi	2	62	Andur	1
29.	Paleshwar	2	63	Kode	1
30.	Tulashi	5	64	Manoli	1
31.	Upwade	1	65	Olwan	2
32.	Radhanagari	12	66	Vesraf	2
33.	Warana	14			
34.	Dudhaganga	8			

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
(c)Executive Engineer, Kolhapur Irrigation Dn.(South) Kolhapur					
35.	Patgaon	1	67	Dindlkop	1
			68	Erandol	1
36.	Chitri	2	69	Kalasgade	1
37.	Kitwad-2	1	70	Karanjivane	2
38.	Kondoshi	1	71	Kitwad	1
39.	Lakikatti	2	72	Kiumari	1
40.	Megholi	1	73	Shendri	1
41.	Phaye	3	74	Sundi	1
			75	Yenechavandi	1
(5)Superintending Engineer Satara Irrigation Circle, Satara					
a)Executive Engineer, Koyna Irrigation Division Koynanagar					
42.	Koyna	7	76	Chaphal	2
43.	Kolkewadi	6	77	Chalakewadi	1
(b)Executive Engineer, Satara Irrigation Division Satara					
44.	Dhom	9			

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
45.	Dhombalkawadi	9			
(c) Executive Engineer, Krishna Irrigation Division, Satara					
46.	Urmodi	2	78	Kankatreawadi	4
47.	Kanher	19	79	Thoseghar	8
			80	Ner	3
			81	Pingali	2
			8/2	Yeralwadi	1
			83	Jambhulani	2
			84	Hiware	1
			85	Ranand	5
			86	Andhali	1
			87	Arabwadi	2
			88	Daruj	1
			89	Nandwal	1
			90	Dhakani	1
			91	Kumathe	2

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
[B]Chief Engineer(S.P.) Water Resources Department Pune					
(1)Superintending Engineer Kukadi Irrigation Circle Pune					
(a) Executive Engineer, Kukadi Irrigation Div. 1 Narayangaon					
48.	Wadaj	6	92	OturWaghdara	4
49.	Yedgaon	1	93	Ramjiwadi	1
50.	Manikdoh	14	94	Gangaldara	1
51.	Pimpalgaonjoge	5	95	Ucchil	1
52.	Dimbhe	14	96	Anepemdara	3
			97	Gohe	2
			98	Ballalwadi	1
(b) Executive Engineer, Kukadi Irrigation Div.2 Shrigonda					
53.	Ghod	12			
c) Executive Engineer ,Kukadi Irrigation Division No. 2, Shrigonda					
54.	Sina	13			
(d) Executive Engineer, Dimbhe Dam Div. Manchar					
55.	Chilewadi	11			

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
(2)Superintending Engineer Satara Irrigation Project Circle, Satara					
(a)Executive Engineer , Minor Irrigation Division, Satara					
56.	Uttarmand	4	99	Mahind	4
57.	Morna(Gureghar)	7			
58.	Nagewadi	6			
59.	Kalgaon	8			
60.	Kusawade	4			
61.	Hatgeghar	1			
(b)Executive Engineer ,Kanher Canal Division No.2, Karwadi,Karad.					
62.	Tarali	11			
(c)Executive Engineer, Dhom Canal Division No.2,Satara					
63.	Pangare	5			
(3)Superintending Engineer & Administrator, C.A.D.A. Solapur					
(a) Executive Engineer, Solapur Irrigation Division Solapur					
			100	Hingani (K)	1
			101	Mangi	2

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
			102	Kazikanbus	2
			103	Rajuri	1
			104	Chare	1
			105	Kari	1
(b) Executive Engineer, BhimaIrrigation Division, Pandharpur					
			106	Talsangi	1
			107	Chincholi	2
(b)Executive Engineer, Ujjani Dam Management Division Bhimanagar Dist. Solapur			**(b)Executive Engineer, Bhima Developement Division No.2, Solapur.**		
64.	Ujjani	10	108	Ashti	2
(4)Superintending Engineer Osmanabad Irrigation Circle Osmanabad			**4)Superintending Engineer, Bhima Canal Circle Solapur**		
(a)Executive Engineer, SinakolegaonProjectDivisionParandaDist.Osmanabad			**(a)Executive Engineer, Minor Irrigaton Division No.1, Solapur**		
65.	Sinakolegaon	12	109	Babhulgaon	2
			110	PimalgaonDhale	3
			111	Gholasgaon	2

Sr. No	Name of Dam	No. of deficiencies noticed	Sr. No	Name of Dam	No. of deficiencies noticed
1	2	3	4	5	6
Private Dam					
A) TATA Power Company Ltd					
1	Thokarwadi	1	1	Lonavala	1
2	Walvhan	1			
3	Shirwata	2			
4	Mulashi	1			
B) INS Shivaji					
			2	New Shivsagar	4
			3	Old Shivsagar	3
C) KMC Kolhapur					
			4	Rankala	1
			5	Kalamba	1
			DSymbiosis Pune		
			6	Upper Tank	3
			7	Lower Tank	4

Table 3.10

Class-I Dams with Category-1 Deficiency

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Observation / Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
---------- No Such Dams under this category is reported ----------						

Table 3.11

Class-I Dams with Category-2 Deficiency

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
[A]Chief Engineer (W.R.), Water Resources Department, Pune						
(1) Superintending Engineer, Pune Irrigation Circle, Pune						
(a) Executive Engineer, Pune Irrigation Division, Pune 1						
1	Name :**Bhatghar** (Gated) Tal. BhorDist.Pune Year of completion :**1926** Location : Longitude **73^{0}52'** Latitude **18^{0}11'** Height :**57.62 m** Gross Capacity : 672.**65 Mm^3** Spillway capacity:**1600 m³/sec** Sr.No.In Large Dam Register 2009: **MH09HH**0048	30.04.2021 24.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Gallery Body Wall Seepage Measurement Gallery EDA	1. There is no proper ventilation & lighting & handrails arrangement.(A8) 2. Problems of inadequate drainage-Clogged porous pipes.. (A8) 3. The total seepage into gallery from the porous pipes in the dam at lake full condition - 8.50 LPS @ FRL (A10) 4. Maximum since last June12/09/2021 8.50 LPS 623.28(A11) 5. There been considerable leaching observed from the seepage water and deposition of line near the seepage exit spots. (A12) 6. Due to erosion in central spillway stilling basin, pond cannot be drained automatically below the adjacent nala bed level.(A14)	Repairs should be carried out. Proper arrangement should be made for the measurement of seepage into gallery. Repairs should be carried out in consultation with Mechanical Organization. Necessary repairs shall be carried out. It should be kept under observation & leaching material should be sent to MERI, Nashik Lab for testing. Necessary repairs shall be carried out. Necessary remedial measures should be carried out.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Outlet	7. The energy dissipation arrangement working satisfactorily - Bed concrete is disturbed. .(A14)	
				Spillway	8. Guide wall beyond check weir and check weir is also damaged. (A16)	Necessary remedial measures should be carried out.
					9. The check wall / end weir is damaged & erosion is observed at D/S of End weir. (A17)	Necessary repair should be done. Necessary remedial measures should be carried out.
					10. The obstructions in upstream or downstream of water conveyance structure - Silt deposition. (B8)	Necessary remedial measures should be carried out.
				Crest of Dam End Weir	11. Pointing on Crest should be done with epoxy material. (B8)	Necessary remedial measures should be carried out.
				Instrmentation	12.Uplift pressure cell & Water stage recorder are not working (B9)	Necessary remedial measures should be carried out.
				Spillway Gates	13.There are automatic gates. Gates are in good condition, but nut bolts of guide frame are not in good condition & need to be replaced.(B12)	

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
2	Name :**Vadivale**(Gated) Tal. MavalDist.Pune Year of completion :**1999** Location : Longitude **73^{0}31'16"** Latitude **18^{0}49'20"** Height :**29.00 m** Gross Capacity: **40.87. Mm^3** Spillway capacity: **746.82m³/sec** Sr.No.In Large Dam Register 2009: **MH09MH1517**	05.05.2021 30.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Face Upstream Face Waste Weir Bar and Tail Channel Spillway	1. Mild seepage on D/S face of masonry. (A11) 2. Significant leakage at Overflow Section & non-over flow section junction on downstream face. (A15) 3. Deterioration of concrete in ogee portion. (B8) 4. Honeycombing to RBC outlet gate, overflow section & Pier concrete above crest RL. (B8) 5. The surface of ogee is not smooth & it is not in profile. Big cavities, pot holes are observed on ogee surface. Heavy leakage through body of spillway is observed. Through junction of each spillway construction joint.Big cavities are observed and needs rectifications. (A15) 6.Concrete at crest level of spillway is damaged and needs rectifications. (B7) 7.Shotcreting & Concrete	Necessary remedial measures should be carried out. Location & quantum of leakage should be investigate causes of leakage should be ascertained & proper remedial measures to prevent leakages should be carried out. Necessary remedial measures should be carried out Necessary remedial measures should be carried out Leakages should be attended in time by providing suitable remedial measures after ascertaining the exact cause of leakage. Necessary remedial measures should be carried out Necessary remedial measures should be carried out

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					jacketing is proposed as per methodology suggested by CWPRS(B7)	
					8. Concrete / masonry deterioration observed. (B7)	Necessary remedial measures should be carried out
					9. Significant leakage on spillway glacis observed. . (B7	Necessary remedial measures should be carried out
				River oulet/ Sluice	10.The heavy leakage observed from wall of intake wells & which is collected in conduit. (B10)	Leakages should be attended in time by providing suitable remedial measures after ascertaining the exact cause of leakage.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
3	Name :**Kasarsai**(Gated) Tal. MulashiDist.Pune Year of completion :**1995** Location :**73^{0}40'00"** Latitude **18^{0}35'30"** Height :**36.0 m** Gross Capacity :**17.38** Mm^3 Spillway capacity : **933.00 m^3 /sec** Sr.No.In Large Dam Register 2009: **MH09MH1373**	05.05.2021 30.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Slope EDA Downstream Face Outlet Gates Downstream Slope Spillways.	1. Wet and slushy patches are observed at ch 300 to 360 m. on downstream slopes when water level is above 626.50m. Boils were observed from ch 300 to 360 at RL 626.50 to 626.61 m (A1) 2. Under drainage of stilling basin is not satisfactory. Also all the open drain holes are not clear & functioning well. (A9) 3. Mild seepage observed on d/s face of masonry. (A11) 4. The surface of gates and the paints is deteriorated. (B11) 5. Heavy bushes observed overall length of D/s slope.(B13) 6. Secondary concrete near wall plates of radial gate is damaged.	This deficiency should be kept under observation and after confirmation by competent field authority, if necessary repair should be carried out in consultation with CDO, Nashik. Necessary remedial measures should be carried out. Necessary remedial measures should be carried out. Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary remedial measures should be carried out. Necessary repairs should be carried out in consultation with Mechanical Organization.
4	Name :**Jadhavwadi** (Gated) Tal. MavalDist.Pune Year of completion :**2001** Location :**73^{0}43'00"** Latitude **18^{0}47'00"** Height :**35.52 m** Gross Capacity :**12.03** Mm^3	11.05.2021 07.12.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Drainage. Outlet	1.No relief well is constructed.(A5) 2.Energy dissipation arrangement is not working satisfactorily for all	Necessary remedial measures should be carried out. Necessary remedial measures should be carried out.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Spillway capacity : **664.14.00 m^3 /sec** Sr.No.In Large Dam Register 2009: **MH09HH1587**				discharges.(A14)	
				Spillway	3.The obstructions observed in or immediately downstream of the spillway.(A17)	Necessary repairs should be carried out in consultation with Mechanical Organization.
				Outlet Gates	4.The full length of the wire rope of the hoist is not in serviceable condition.(A18)	Necessary repairs should be carried out in consultation with Mechanical Organization.
					5. The stem rods for lifting the gates are not perfectly straight.(B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
				Upstream Slope	6. Concavity appears from ch.480 m. to 545 m. and between ch.810 m. to 980 m. on U/S slope & pitching settled down. (B3)	Necessary repairs should be carried out.
				Crest of Dam	7. There are signs of excessive and/or uneven settlement between ch. 400 to 700 & Ch. 850 to 990. (B3)	Necessary remedial measures should be carried out.
				W.W.Bar	8. Waste Weir Bar is not in good condition.(A17)	Necessary remedial measures should be carried out
					9.Coping of spillway bar is damaged.(A18)	Necessary remedial measures should be carried out
5	**Name :NiraDevghar (Gated)** Tal. BhorDist.Pune	30.04.2021 24.11.2021	Shri. S. D. Chopade,	Gallery	1. Maximum seepage in the body of dam collected in	Necessary remedial measures should be carried out.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Year of completion :**2007** Location :**73^{0}43'36"** Latitude **18^{0}06'18"** Height :**58.525m** Gross Capacity :**337.39** Mm^3 Spillway capacity :**1852.00 m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH1554**	17.03.2022	S.E., P.I.C., Pune E.E. D.S.Div-1 Nasik	W.W. Bar & Tail channal Insrumentation	gallery is measured - Quantity of seepage water 37.5 LPS@FRL(A11) 2. Leaching @ some extent is noticed. Leaching material was submitted to MERI, Nasik for testing. (A12) 3. The energy dissipation arrangement is not working satisfactorily -Bed concrete is disturbed. (A14) 4. There is scouring in central spillway stilling basin and concrete filling is proposed to prevent further scouring (A16). 5. Bed concrete is disturbed of D/s side of End weir wall and tail channel bed. (A16). 6. Pitting, spalling & wearing of bed concrete surface in large scale & deep. (A14) 7. The problems ensuring correct functioning of instrument- They are not in working conditions(B9) 8. The Plumb bomb, Uplift pressure cell & Piezometer pressure cells are not working.(B9)	Necessary remedial measures should be carried out. Necessary repair should be done. Necessary repair should be done. Necessary remedial measures should be carried out. Necessary remedial measures should be carried out. Necessary repair should be done in consultation with IRD, Nashik.
6	**Name-Andravalley (Ungated)** Tal.MavalDist.Pune Year of completion :**2003** Location :**73^{0}39'00"** Latitude **18^{0}20'00"**	05.05.2021 30.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Gallery	1. Foundation gallery not accessible due to flooding during inspection.(A8) 2. There is a substantial progressive reduction in seepage through the	Necessary remedial measures should be carried out Necessary remedial measures should be carried out

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Height :**34.50m** Gross Capacity :**83.31** Mm^3 Spillway capacity :**3021.00 m^3 /sec** Sr.No.In Large Dam Register 2009: **MH09HH1622**				foundation , due to choking drain holes at ch. 0/070 to 0/270m.(i) Almost all porous pipes in inspection gallery are blocked. .(A9) 3. Almost all porous pipes blocked up to 1 to 3 m from gallery roof. .(A9) 4. (ii) Seepage through porous pipes, foundation drains & monolith joints collected in Gravity chamber @ D/s of EDA measured manually is 1 lit/sec.(A10) 5. Light sweating observed at foundation gallery.(A11) 6. Lake filled at FRL level in August - 2006. Total seepage in gallery was measured and was about 4.25 lit/sees by construction wing.(A15)	Necessary remedial measures should be carried out Necessary remedial measures should be carried out
				Outlet Gates Outlet	7. Wire ropes required to be changed.(A18) 8. The surface of gates and the paints is deteriorated.(B11) 9. 1) Service gate & (2) Emergency gate - Leakages is observed through rubble seals. It requires to be changed. Electric wiring and electric motor requires to be repaired.(B5)	Necessary remedial measures should be carried out in consultation with mechanical organization. Necessary remedial measures should be carried out in consultation with mechanical organization.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(b) Executive Engineer ,Khadakwasala Irrigation Division, Pune 11						
7	Name :**Panshet**(Gated) Tal. VelheDist.Pune Year of completion :**1972** Location : Longitude **73^{0}37'** Latitude **18^{0}22'** 5Height :**63.56 m** Gross Capacity :**303 Mm^3** Spillway capacity :**1162.0 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH0310**	04.05.2021 23.11.2021	Shri.S.D. Chopade, S.E., P.I.C., Pune	Gallery	1. There is leakage observed through the well proper and the conduit concrete or masonry - details not given.(A4)	Necessary repairs should be carried out.
					2. The seepage flow is measured as on a) Date - 23.11.2021Rate of seepage flow (lpm) - 101.00 LPS @ Reservoir Level - 635.99 m;(A11)	Necessary repairs should be carried out.
					3. There has been considerable leaching from the seepage water and deposition of lime near the seepage exit spots. (A12)	It should be kept under observation & leaching material should be sent to MERI/ Lab for testing.
				Instrument	4. Piezometers and water stage recorder are out of order.(B9)	Necessary repair should be done in consultation with IRD, Nashik.
				Spillway Gates	5. The damage or wear caused to the seal plates observed.(B12)	Necessary repairs should be carried out in consultation with Mechanical Organization.
8	Name:**Khadakvasala**(Gated) Tal. Haveli Dist.Pune Year of completion :**1879** Location : Longitude **73^{0}45'** Latitude **18^{0}25'** Height :**32.92 m** Gross Capacity :**86 Mm^3**	04.05.2021 23.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Drainage.	1. Standing pool observed on D/S of Dam at Ch 1/066 to 1/095 m. (A2).	Suitable drainage arrangement should be done to drain out the water.
				Abutment Contacts	2. The presence of leaks, springs or wet spots observed in vicinity of abutment. (A3).	Seepage & sweating be monitored and necessary remedial measures be taken .

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Spillway capacity :**2755 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH0013**			Junction of Earth work with Masonry	3. The seepage is observed from outlet provided at ch. 0/035 to 0/040m and 0/060 to 0/150m (quantity of seepage not given)(A11)	It should be kept under observation and verification of competant authority remedial measures should be taken if necessary.
				EDA	4. Some friction blocks are damaged.(A14)	It should be repaired properly.
					5. The concrete surface of the stilling basin and apron (or bucket) is not in good condition. (A14)	It should be repaired properly.
					6. The scouring observed on downstream side of the bar and/or EDA.(A17)	Proper remedial measure should be taken and scouring should be monitored & prevent the further scouring.
				End Weir	7. The erosion and damages observed on the concrete or masonry surface. .(A17)	
					8. The scour noticed on the immediate downstream. .(A17)	Necessary repairs should be carried out.
				Outlet	9. The damage noticed to the conduit concrete, breast wall and gate slots.(B5)	Necessary repairs should be carried out.
				Outlet Gates	10. The stem rod for lifting the gates is not perfectly straight. .(B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
				Waste Weir Bar and Tail Channel	11. The coping over the spillway bar is not in good condition.(B7)	Necessary repairs should be carried out.
				Spillway	12. The spillway ogee surface is damaged. Small pot and erosion on surface and damage at some locations.(B7)	Necessary repairs should be carried out.
				Instruments	13. Only Pan Evaporimeter is in working condition,	Necessary repairs shall be done in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					Piezometer & Water Stage Recorder are out of order.(B9)	
9	Name :**Warasgaon**(Gated) Tal. VelheDist.Pune Year of completion :**1972** Location : Longitude **73^{0}37'** Latitude **18^{0}23'** Height :**63.40 m** Gross Capacity **: 374.00 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH0592**	04.05.2021 23.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Gallery/Shaft Condition Gallery Dam body Downstream Face Body Wall	1. Some drain holes are chocked (number not mentioned) (A9) 2. Foundation holes are not cleaned periodically. (A9) 3. Excessive seepage/sweating at M6, M11, M12, M13 observed along gallery/shaft (A10) 4. Significant or excessive leakage at M6, M11, M12, M13 observed along gallery/shaft / porous drain **.** (A10) 5. Excessive seepage / sweating at downstream face (location not mentioned) (A11) 6. Significant leakage on downstream face at M6, M11, M12, M13 observed. (A11) 7. There is an excessive seepage, sweating at monolith no. 6, 11, 12, 13 on the downstream face of the dam. (A11) 8. (v) The excessive leakage at M6, M11, M12, M13 observed. (A11) 9. There has been a considerable leaching from the seepage water and	Drain holes should be cleaned. Necessary repairs should be carried out. Drain holes should be cleaned. Necessary repairs should be carried out. Seepage & sweating be monitored and necessary remedial measures be taken. Seepage & sweating be monitored and necessary remedial measures be taken. Seepage & sweating be monitored and necessary remedial measures be taken. Seepage & sweating be monitored and necessary remedial measures be taken. Seepage & sweating be monitored and necessary remedial measures be taken. Seepage & sweating be monitored and necessary remedial measures be taken. It should be kept under observation & leaching material should be sent to

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					deposition of lime near the seepage exit spots. (A12)	MERI/ Lab for testing.
					10. The first filling during 1986 wqas up to RL 629m & the leakage was 126 lps. In the year 2017 the max RL of water was 639.50 m & leakage was 262 lps. Total seepage is 210 lps on 28/11/2019. Total seepage on date 23/11/2021 is 210 lps. (A15)	Necessary repairs should be carried out
				Tail Channel &WW Bar	11. The leakages observed through divide wall. (location-foundation gallery's cross drain) (A15)	Necessary repairs should be carried out
					12. The damages to guide walls, divide wall and other appurtenant observed. (A16)	Necessary repairs should be carried out
					13. Erosion of foundation of end weir at stilling basin observed. (A17)	Necessary repairs should be carried out
				Downstream Drainage	14. The portions of longitudinal toe drain and exposed cross drains beyond the downstream toe of the dam is not in regular section and freely draining.(B2)	Necessary repairs should be carried out
				Instrumentation	15. Piezometer, uplift pressure cell, strain gauge & Water Stage Recorder are out of order. .(B9)	Necessary repairs shall be done in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	**2**	**3**	**4**	**5**	**6**	**7**
10	Name :**Pawana** (Gated) Tal. BhorDist.Pune Year of completion : **1972** Location : Longitude **73^{0}40' 30** Latitude **18^{0}21 30'** Height : 42.37 m Gross Capacity : 305 Mm^3 Spillway capacity:1250 m³/sec Sr.No.In Large Dam Register 2009: **MH09HH** 0311	05.05.2021 30.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Slope	1. A small spring observed on right side spray wall & end abutment junction of spillway - above radial gate sill RL.(A3)	Necessary repairs should be carried out.
				Gallery	2. Any safety issues - Repair to electrical light in right side gallery required. (A8)	Necessary repairs should be carried out.
					3. There has not been substantial progressive reduction in the seepage through the foundations. (number of drain holes cleaned not mentioned) (A9)	Necessary repairs should be carried out.
					4. Water jet observed inside on right side drainage gallery from sides and roof. (A10)	Drain holes should be cleaned.
					5. L & R side both galleries leakages(A10)	Drain holes should be cleaned.
					6. The seepage flow as on date of inspection - Dtd-30/11/2021 - 1177 lpm, Reservoir Level - 611.880 m; (ii) Max since last June 2021 - 2647.52 lpm; (iii) Min since last June 2021 - 1198.10 lpm; (A11)	Necessary repairs should be carried out.
				Downstream Face	7. Mild sweating observed on d/s face of masonry (A11)	Necessary repairs should be carried out.
				Dam Body	8. Sweating is seen on D/S surface of masonry so cleaning of porous pipes is necessary (A11)	Necessary repairs should be carried out.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Spillway	9. .Excessive seepage/ sweating on spillway glacis observed - location not given. (A11)	Necessary repairs should be carried out.
				EDA	10. At some places at Stilling Basin wearing of concrete layer observed. (A14)	Proper remedial measure should be taken and scouring shall be monitored & prevented further scouring.
				Dam Body	11. The first filling during 1974 was up to RL 611.0m & the leakage was 3856 lpm. The seepage in both galleries at full condition of dam RL 613.26m was 1362 lpm. The seepage at RL 611.89 m was noticed 1177 lpm. (A15)	Necessary repairs should be carried out.
				End Weir	12. The erosion, pitting or spalling of the concrete or masonry surface observed. - Details not given. (A17)	Necessary repairs should be carried out.
					13. The scouring at D/s side of end weir observed for about 70m portion. (A17)	Necessary repairs should be carried out.
				Hoist Crane	14. The alternative power system for gate operation is not working properly. (A19)	Necessary repairs should be carried out.
				D/S slope	15. Toe drain balance repair work to be done (B2)	Necessary repairs should be carried out.
					16. Toe drain repair work is in progress. (B2)	Necessary repairs should be carried out.
				Instrumentation.	17. Piezometer & Uplift Pressure Cells are yet to be installed.(B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
				Spillway Gates	18. Minor leakage at sill of gate no. 1 & 6,	Proper remedial measures to be taken in consultation with Mechanical

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
						Organization.
(c) Executive Engineer ,Chaskaman Irrigation Division, Pune 11						
11	Name :**Chaskaman(**Gated) Tal. KhedDist.Pune Year of completion :**1999** Location : Longitude **$73^0$47'** Latitude **$18^0$57'** Height :**46.28 m** Gross Capacity :**241.69Mm^3** Spillway capacity **: 2860 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1522**	11.05.2021 07.12.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Downstream Drainage	1. Boils are observed @ RD 800m d/s 180m; Boils are observed @ 860m, d/s 285m in existing well left side. (A1)	Cause of boils may be treated; check the drainage arrangement function of Long, cross, toe drains and then proper remedial measures shall be carried out.
					2. In the d/s of dam @ ch 860m downstream 285m, standing pool of water observed. (existing well) (A1)	The downstream area from toe shall be free from slushy condition by draining water properly.
				Relief Wells	3. The relief wells are not properly surged and cleaned periodically(A5)	Relief wells should be cleaned periodically.
				Gallery/Shaft and Drainage	4. Gallery remains flooded due to heavy leakages through porous pipe. (A8)	Proper drainage arrangement shall be provided to drain out water.
					5. Deterioration of pump and associated equipment observed - it requires replacement. (A8)	Necessary repairs shall be done
					6. Other issues-continuously electricity is not available to the pumps for pumping. (A8)	Alternative arrangement should be made.
					7. Some porous drains and foundation drain holes are not in working condition. (A9)	Foundation holes should be cleaned.
					8. Total 71 drain holes are choked. (A9)	Foundation holes should be cleaned.
				Body Wall (Masonry /Concrete)	9. Significant leakage on downstream face observed on d/s face of masonry. (location not mentioned) (A10)	Necessary repairs shall be done
					10. Lighting arrangement has	Alternative arrangement should be

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					been destroyed and heavy leakages in inspecting gallery. (A10)	made.
				Gallery/Shaft and Drainage	11. Excessive seepage through porous pipe in gallery. (A10)	Proper remedial measures to be taken to reduce leakage & gallery always made available for inspection.
					12. Maximum discharge on2.9.2020when the dam is at maximum - 5688 lpm (A10)	
					13. No separate arrangement made for the measurement of seepage in gallery. (A10)	Proper arrangement should be made.
					14. The seepage flow as on date of inspection - Dtd-07/12/2021 - 5808 lpm, Reservoir Level - 649.530m; (ii) Max since last june 2020 - Date 16/10/2021 - 5808 lpm, Reservoir Level - 649.530m;; (iii) Min since june2020 - 13/06/2021 - 1812 lpm, Reservoir Level - 632.260 m; (A11)	Proper remedial measures to be taken to reduce leakage.
				Downstream Face	15. Excessive seepage / sweating observed on d/s face of masonry.(A11)	Proper remedial measures to be taken to reduce leakage.
				Body Wall	16. Maximum discharge on 04/08/2021 when the dam is at maximum is 5808 lpm. (A11)	Proper remedial measures to be taken to reduce leakage & gallery always made available for inspection
					17. There is no reduction in seepage. (A11)	Proper remedial measures to be taken to reduce leakage.
					18. There is no reduction in seepage through pipes.	Proper remedial measures to be taken to reduce leakage.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					(A11)	
				Gallery/Shaft Condition	19. Leachate deposition is observed around the porous pipe in gallery. (A12)	It should be kept under observation & leaching material should be sent to MERI/ Lab for testing.
					20. 20.There has been considerable leaching from the seepage water and deposition of lime near the seepage exit spots. (A12)	It should be kept under observation & leaching material should be sent to MERI/ Lab for testing.
					21. The samples of the seepage water and reservoir water not being regularly tested for reactive and corrosive properties. (A12)	Leaching material should be sent to MERI/ Lab for testing.
				End Weir	22. There is heavy erosion at the toe of the end wall. (A17)	Proper remedial measures to be taken to reduce leakage.
					23. The alternative power system for gate operation is not working properly. (A19)	Proper arrangement should be made.
				Outlet	24. In the concrete chamber of service gate, there is a leakage through the concrete from u/s side. (B5)	Proper remedial measures to be taken to prevent the leakage.
				Instrumentation	25. Only rain gauge & piezometers provided-which are not in working condition (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
					26. The instrumentare vulnerable to damage or theft i.e.	Necessary repairs shall be done in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					inadequate protection. (B9) 27. All the instruments are not in working order. (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
12	Name :**Aralakalmodi (Un**Gated) Tal. Khed Dist.Pune Year of completion :**2010** Location : Longitude **73^{0}40'30"** Latitude **19^{0}00'00"** Height :**40.61 m** Gross Capacity :**42.87Mm^3** Spillway capacity **: 963.21 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1672**	11.05.2021 07.12.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	Gallery/ pumps Gallery/Shaft Outlet	1. Electrification arrangement has not been provided. (A8) 2. There a problem in inspecting pump - details not given. (A8) 3. There is a obstruction observed to preventing or impairing smooth operation. (A8) 4. Deterioration of pump and associated equipment observed. (A8) 5. There is a problem of inadequate drainage. (A10) 6. Excessive seepage through porous pipe in gallery. (A10) 7. Significant or excessive leakage along gallery/shaft / porous drain observed. - details not given.(A10) 8. Seepage though porous pipes, foundation drains & monolith joints collected in gravity chamber @ d/s of EDA measured. .(A10) 9. There is no reduction of drainage through pipe. .(A10) 10. The energy dissipation arrangement is not working satisfactorily for all the discharges. (A14) 11.Emergency gate is not in operating condition. (B5)	Electrification arrangement shall be provided. Necessary repairs should be carried out Necessary repairs should be carried out. Proper remedial measures to be taken to reduce seepage. Proper remedial measures to be taken to reduce leekage. Necessary repairs should be carried out. Proper remedial measures to be taken to reduce leekage. Proper remedial measures to be taken in consultation with Mechanical Organization

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Spillway Bridge	12.Structural members & joints needs painting. (B11) 13.The surface of steel works & paints is not satisfactory..(B11) 14.The parapet or railing over the bridges are not sound, safe and painted.(B11)	Proper remedial measures to be taken in consultation with Mechanical Organization Proper remedial measures to be taken in consultation with Mechanical Organization
13	Name :**Bhamaaskhed (**Gated) Tal. KhedDist.Pune Year of completion :**2014 (Dam Portion)** Location : Longitude **73^{0}43'00"** Latitude **18^{0}15'00"** Height :**51.125 m** Gross Capacity :**230.473Mm^3** Spillway capacity **: 1736 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1559**	11.05.2021 07.12.2021 18.03.2022	Shri. S. D. Chopade, S.E., P.I.C., Pune E.E. D.S.DIV-1 Nasik	Junction of Earth work Hoists, cranes Outlet D/s Drainage Outlet Outlet Gates	1. The entire length of the conduit is not in perfect order & profile and free from offset, open joint, cracks & leakage.(A4) 2. The alternative power system for gate operation- Standby Genrator is required.(A19) 3. The rollers are not working properly.(A20) 4. Drain at ch.. 500m is not working.(B2) 5. Emergency Gate is not in operation due to concrete failure of side drums, broken rubber seals & Guide T is not in plumb. (B5) 6. The stem rod for lifting the gates is not perfectly straight. (B5) 7. Instruments like piezometers and uplift pressure cells are not in workings condition(B9) 8. Leakages observed through	Necessary repairs should be carried out. Alternative arrangement should be made. Proper remedial measures to be taken in consultation with Mechanical Organization Necessary repairs should be carried out. Proper remedial measures to be taken in consultation with Mechanical Organization Proper remedial measures to be taken in consultation with Mechanical Organization Necessary repairs shall be done in consultation with IRD, Nashik. . Necessary repairs should be carried

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					Service Gates. (Quantity not mentioned). (B12)	out.
(d) Executive Engineer, Nira Right Bank canal Division, Phaltan,Dist. Satara						
14	Name: **Veer** (Gated) Tal.PurandarDist.Pune Year of completion :**1965** Location : Longitude **74^0 5'55** Latitude **18^0 07'05"** Height :**39.11 m** Gross Capacity :**278.49 Mm^3** Spillway capacity **:5154 m^3/ sec** Sr.No.In Large Dam Register 2009:**MH09HH0116**	28.05.2021 24.11.2021	Shri. S. D. Chopade, S.E., P.I.C., Pune	D/s Face	1. Excessive seepage/sweating at any location on downstream face- sweating is observed in NOF portion . (A11)	Necessary repairs should be carried out.
				Body Wall	2. There is excessive seepage, sweating observed on the d/s face of the dam. (Details not given). (A11)	Necessary repairs should be carried out
				Waste Weir Bar	3. Guide wall joints on both flanks are open & strengthening of wall should be Carried out.(A16)	Necessary repairs should be carried out
				Structural performance	4. There is signs of structural distress noticed in the dam spillway of foundatuion. (A16)	Necessary repairs should be carried out
				Spillway & EDA	5. Presence of displaced, offset or open joints-UCR masonry joints on ogee were washed away at some locations specially at gate No.4, 5, 6, & 7(A16)	Necessary repairs should be carried out
					6. The foundation erosion or scour noticed near NRBC @ Ch. 0/45 to Ch. 0/510. (A16)	Necessary repairs should be carried out
				Hoists, cranes	7. The hoists are working satisfactorily - Crane modernization required.(A18)	Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice.
					8. Problems observed while inspecting hoist/ crane/ operating mechanism details not given.(A18)	Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Outlet & Gates	9. The full length of the chains or wire rope of the hoist is not in sound condition and not free from broken strands.(A18)	Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice.
					10. Emergency gate(s). Operation is not smooth. (A20)	Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice.
				Intake/Outlet Structure	11. Operation of outlet gate is not smooth. (A20)	Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice.
					12. Evidence of abrasion, cavitation or scour on intake/outlet structure- Embedded parts of S. G. no. 3, 4, 5, 6 are eroded and concrete around embedment is leached out..(B5)	Necessary repairs should be carried out
				Instrumentation	13. The evidence of degradation to condition of instrument (rusting, vandalism) observed. (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
				Outles	14. Service Gate-Leakage through SG 5, 4, 6 observed after closer. (B12)	Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(e) Lift Irrigation Management Division, Pune						
15	Name: **Nazare**(Gated) Tal.PurandarDist.Pune Year of completion :**1974** Location : Longitude **74^0 12'50"** Latitude **18^0 17'30"** Height :**22.545 m** Gross Capacity :**22.316 Mm^3** Spillway capacity **:2424.71 m^3/ sec** Sr.No.In Large Dam Register 2009:**MH09MH0453**	15.05.2021 05.12.2021	Shri.S. D. Chopade, SE, P.I.C., PUNE	EDA Outlet Gates	1. There is a progressive erosion and retrogression in the tail channel.(A7) 2. The stem rod for lifting the gates is not perfectly straight. (B5)	Necessary repairs should be carried out Necessary repairs should be carried out in consultation with Mechanical Organization or under their advice.
(2)Superintending Engineer, Pune Irrigation Project Circle, Pune						
(a) Executive Engineer, BhamaAskhed Dam Division, pune						
16	Name **Temghar** Tal. MulashiDist.Pune Year of completion : **2000** Location : Longitude: **73^0 32'** Latitude :**18^0 27'** Height :**86.67 m** Gross Capacity :**107.96 Mm^3** Spillway capacity: 626 m^3/ sec Sr.No.In Large Dam Register 2009: **MH09HH1544**	19.11.2021	Shri.P.S. Kolhe SE PIPC Pune	Gallery/Shaft and Drainage	1. Foundation gallery is also not accessible due to accumulation of wet soil & debris from Ch.420 to 705 m (A8). 2. Safety issues - no hand rails, lighting in gallery.Inadequate drainage - slippery stairs(A8) 3. There were heavy leakages during dam full condition which makes the separate measurement of seepage difficult. That's why V-notches & trapezoidal notches are installed @ D/s of dam. (A9) 4. Foundation gallery is not accessible From Ch. 420 m. to 700 m. due to flooded gallery. Drain hole	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee for balance work. Necessary repairs should be carried out Suitable treatment should be carried out as per suggestion of Temghar Expert Committee for balance work Suitable treatment should be carried out as per suggestion of Temghar Expert Committee.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					observations cannot be done. But all leakages in foundation gallery are measured at D/s of monolith no.17 (A9)	
					5. Out of 378 VPDs, only 78 are functioning, remaining 100 are slightly functioning & 200 VPDs are not operational. Cleaning & re drilling of these VPDs is necessary.(A9)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee.
				Drains	6. The pumps are not physically accessible as they are in the foundation gallery. .(A9)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee.
					7. Sump well is choked due to the clogging of cement water in it.(A9)	Necessary repairs should be carried out
				EDA	8. The tail pond cannot be drained easily.(A9)	Necessary repairs should be carried out
					9. All the open drain holes are blocked and hence the tail pond always remains flooded. .(A9)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee.
				Gallery/Shaft and Drainage	10. Inadequate drainage - Due to drain hole water, seepage/ leakages make staircase become slippery.(A10)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee.
					11. Excessive seepage observed in foundation gallery from Ch.420 to700 m (A10)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee
					12. Excessive seepage	

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					observed in gallery, VPD at Ch. 659.50, 668.50, 671.50, 692.50 & 753.00. (A10)	
				Body Wall	13. The total seepage from the porous pipes cannot be measured due to heavy leakage in gallery. The total leakage observed is 175.90 lps. 90% reduced leakage is observed as compared to max leakage observed 2587 lps in 2015-16. (A10)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee
				D/s Face	14. Seepage observed during inspection, leakages observed at RL 705.60 & leakage was 173.20 lps. Total quantity of leakage was 175.90 lps at FRL(A11)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee
					15. Significant leakage at Ch. 517.00 (Qty not given). (A11)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee
				Body Wall	16. Sweating on D/s side were observed when dam was at FRL(A11)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee
					17. When dam water level was at FRL, there was seepages & spray wall sprinkles & sweating on D/s side. (A11)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee
				Inspection Gallery	18. Leaching is observed in gallery, adit (Ch.375 m to 895m). (A12)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee
					19. There is a considerable leaching from the seepage water & deposition of lime near the seepage exit spots.	Suitable treatment should be carried

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Spillway	(A12) 20.There is some leakage from spillway portion.(A15)	out as per suggestion of Temghar Expert Committee
				Guide walls/Divide walls	21. Minor seepage is observed generally at the joints in the spillway. (A15) 22. There is foundation erosion or scour noticed. (A16) 23. Foundation of left side guide wall is scoured. (A16) 24. Severe springs or trickles are observed from the areasadjacent to the spray wall. (A16)	Suitable treatment should be carried out as per suggestion of Temghar Expert Committee Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out
				Upstream Face	25. Deterioration observed on the upstream surface. Carryout the repair work as per instruction of TDEC. (B8)	Necessary repairs should be carried out
				Instruments	26. Instruments are not installed yet. (B9)	Necessary action shall be taken in consultation with IRD, Nashik.
(b) Executive Engineer, NeeraDeoghar Project Division, Sangvi(Bhatghar), Tal.- Bhor, Dist. Pune.						
17	Name -**Gunjawani (Gated)** Tal. VelheDist.Pune Year of completion : **2018** Location : Longitude: **73° 37 '00"** Latitude :**18° 18 '00"** Height :**52.825 m** Gross Capacity :**104.69 Mm^3** Spillway capacity: **1924 m^3/**	18.11.2021	Shri.P.S. Kolhe SE PIPC Pune Shri.H.T .DHumal SE PIPC Pune	Crest of Dam Instruments Spillway Gates	1. Not provided an all-weather road surface. (B6) 2. There is degradation to access road. (B6) 3. Instruments installation work is in progress. (B9) 4. There is leakage through rubber seal adjacent to spillway wall portion &	Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary action shall be taken in consultation with IRD, Nashik. Necessary repairs should be carried out out in consultation with Mechanical Organization

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	sec Sr.No.In Large Dam Register 2009: **MH09HH1552**				irrigation limb vertic0al gate lift gate leakage problem.	
Superintending Engineer, Sangli Irrigation Circle, Sangli						
(a) Executive Engineer, Sangli Irrigation Division, Sangli						
18	Name : **Morna** **T**al. Shirala Dist.Sangali Year of completion : **1984** Location : Longitude **74^{0}06'30"** Latitude **16^{0}59'20"** Height :**38.10 m** Gross Capacity : 21.18 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1101**	25.05.2021 10.12.2021	Shri M.J.Naik. S.E.SIC Sangali	Outlet Hoist	1. There were Leakage through HR Well(A6) 2. Wire Rope of Hoist not in Sound Condition (A18) 3. Obstructing in Preventing or of impairing smooth Operations (A20) 4. Hoist mechanisms is faulty & Emergency gate mechanisms is faulty (B5)	It should be repaired properly in consultation Mechanical organization. Necessary repairs should be carried out out in consultation with Mechanical Organization
19	Name : **Yeoti-Mhasoli** **T**al. Karad Dist.Sangali Year of completion : **1989** Location : Longitude **74^{0}01'00"**(E) Latitude **17^{0}10'00 "(N)** Height :**36.00 m** Gross Capacity : 7.30**Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1101**	27-05-2021 12-10-2021	Shri M.J.Naik. S.E.SIC Sangali	D/s Slope	Vegetation was observed on U/S &D/S Dam slope and Drain (B13)	Necessary repairs should be carried out.
(b) **Executive Engineer ,Takari Pump House Division No.1, Devrashtre**						
20	Name :**Satpewadi barrage** **T**al. Walwa Dist.Sangali Year of completion : 2005 Location : Longitude **74^{0}21'26"**(E) Latitude **17^{0}06'51"(N)**	27.04.2021 12.10.2021	Shri M.J.Naik. S.E.SIC Sangali	Abutment Contacts	1. Due to River Flood in Aug.2019 both side slope pitching near abutment Eroded and embankment washed out (B15)	It should be repaired properly

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Height : 37**.50 m** Gross Capacity : **Mm^3** **Proposed for updation in NRLD 2018**					
(3) Superintending Engineer, Kolhapur Irrigation Circle, Kolhapur						
(a) Executive Engineer, Kolhapur Irrigation Division (North), Kolhapur.						
21	Name: **Kadavi** Tal.Shahuwadi Dist. Kolhapur Year of completion : 2000 Location : Longitude 73°52'30" Latitude 17°00'05" Height : 36.05**m** Gross Capacity : 71.34 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1541**	28.04.202124.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Outlet W.W. Bar Instruments	1. Power Outlet wall on D/s face shoes heavy leakage (A4) 2. Waste wier bar work still not completed by construction wing .U/S & D/S face of Waste weir bar needs pointing. (B7) 3. Majority of instruments are in dead condition. Need new installation. (B9)	Necessary repairs should be carried out out in consultation with Mechanical Organization It should be completed. Necessary repairs should be carried out Necessary repairs shall be done in consultation with IRD, Nashik.
22	Name: **Kasari** Tal.Shahuwadi Dist. Kolhapu Year of completion : 2000 Location : Longitude 73°52'30" Latitude 17°00'05" Height : 36.05**m** Gross Capacity : 71.34 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1541**	28.04.2021 24.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Instruments	4. Instruments not in working condition (B9)	Necessary repairs shall be done in consultation with IRD, Nashik
23	Name : **Radhanagari** (Gated) Tal. Radhanagari Dist. Kolhapur	19.04.2021 09.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Gallery & shaft	1. Problems accessing or inspecting gallery/shaft (obstruction) due to size is 3x4 ft (A8)	

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Year of completion :**1954** Location : Longitude **73^{0}57’40”** Latitude **16^{0}20’20”** Height :**42.83 m** Gross Capacity :**936.56 Mm^{3}** Sr.No.In Large Dam Register 2009: **MH09HH0067**			D/s Face	2. Significant leakage at Ch.420 to 480m & Ch. 640 to715m on downstream face..(A10)	Proper remedial measures shall be taken to reduce leakage.
				EDA	3. Scouring at D/S of the service gates (Sluice gate) (A14) 4. Condition of energy dissipation arrangement is not satisfactory (A14)	After rechecking of deficiency by competent field authority, Necessary repairs should be carried out in consultation with CDO Nashik.
				Spillway /Gates	5. Chains/ wire ropes required to replace heavy rusted channels rusted need to repairs (A18)	It should be repaired properly consultation Mechanical organization
					6. Sluice gates & Automatic gate to be repaired .(A20)	
					7. There is problems with the rollers .(A20)	It should be repaired properly consultation Mechanical organization
					8. Seal angle is damaged.(A20)	
					9. Fulcrum pin & lock plate nuts rusted required to replace (A20)	It should be repaired properly consultation Mechanical organization
					10. Gantry (Goliath with trusses to be repaired or replaced. (A20)	It should be repaired properly consultation Mechanical organization
					11. Gate cannot be closed @ FSL (A20)	It should be repaired properly consultation Mechanical organization
					12. Due to wire rope hoist service gate cannot be lowered @ FSL(A20)	It should be repaired properly consultation Mechanical organization
				Hoists	13. Emergency gate loading operation is difficult & risky @ FSL (A20)	
				Acces Road	14. One bridge across channel on sluice to need to travel	

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					across the banks. (B6) 15. Additional bridge needed to react left entry(B6)	
				Instruments	16. Instruments not installed except one rain gauge at dam site (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
				Gates	17. The rubber seals required to be replaced. (B12)	It should be replaced properly in consultation Mechanical organization
24	Name :**Warana** (Gated) Tal. Shirala Dist. Sangli Year of completion :**1989** Location : Longitude **73^{0}05'50** Latitude**17^{0}08'10"** Height :**77.00 m** Gross Capacity **974.18 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1542**	22.04.2021 02.11.2021	Shri M. S. Surve SE, KIC Kolhapur	D/S Face	1. On the day of present inspection 2.11.2021 rate of seeoage is 777.10 LPS Reservoir level is . 626.50 m. (A1)	Proper remedial measures shall be taken to reduce leakage.
				Gallery	2. There is seepage or leakage through the conduit surface. (A4)	Proper remedial measures shall be taken to reduce leakage
				Relief wells	3. The relief wells needs regular surging (A5)	Necessary work shall be carried out for easily accessible gallery.
				Gallery	4. Problems accessing or inspecting gallery/shaft (obstruction)due to heavy leakage. (A8)	Proper remedial measures shall be taken to reduce leakage.
					5. Any safety issues – Safety doors needs repair (A8)	Proper remedial measures shall be taken to reduce leakage
					6. Dewatering pumping station fully not operational. (A8)	Proper remedial measures shall be taken to reduce leakage
					7. There is problem for inspecting pump due to gallery is flooded. (A8)	Proper remedial measures shall be taken to reduce leakage

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					8. Drains holes are clogged(A9)	
					9. There is substantial progressive reduction in the seepage through the foundations. Due to choking of the drain holes. (A9)	Proper remedial measures shall be taken to reduce leakage.
					10. Seepage at lower level at RD 230 to 330m	Proper remedial measures shall be taken to reduce leakage.
					11. There is excessive seepage/sweating along gallery/shaft (A11)	Proper remedial measures shall be taken to reduce leakage.
					12. There is significant or excessive leakage at along gallery RD 160 to 300 m(A11)	Proper remedial measures shall be taken to reduce leakage.
				D/S Face	13. There is excessive seepage, sweating at any locations on the D/S Face of the dam - RD160 to 230 LHS. (A11)	Proper remedial measures shall be taken to reduce leakage.
				Gallery	14. There is leachate deposition at RHS of inspection gallery. (A12)	. It should be kept under observation &leaching material should be sent to MERI/ Lab for testing.
					15. There is considerable leaching from the seepage water. (A12)	It should be kept under observation &leaching material should be sent to MERI/ Lab for testing.
				Body wall	16. There is erosion, pitting or spalling of the concrete or masonry(A17)	Necessary remedial measure to be taken by permission of field competent authority.
				River Outlet	17. The overall condition of river outlet works/river sluices is not satisfactory(A20)	It should be repaired properly in consultation Mechanical organization
				Outlet gates		

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Instrumentation	18. The stem rods of HLIO & LLIO needs to be aligned. (B5) 19. Majority of instruments are in dead condition. Need new installation(B9)	It should be repaired properly in consultation Mechanical organization Necessary repairs shall be done in consultation with IRD, Nashik.
25	Name: **Dudhaganga** (Gated) Tal. Radhanagari Dist. Kolhapur Year of completion :**1989** Location : Longitude **74^0 1'** Latitude **16^{0}21'** Height :**85.30 m** Gross Capacity :**719.12 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1226**	19.04.2021 09.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Relief Well Gallery	1. Relief wells are not functioning, chocked & needs cleaning**(A5)** 2. Foundation gallery is flooded and hence not easily accessible **(A8)** 3. For safety issues Lighting arrangement is deteriorate **(A8)** 4. Porous pipe in M-7 & M-8 are clogged, foundation drain holes in M-3 to M-5 & M-8, M-9 should be cleaned(A9) 5. There is excessive seepage/sweating along gallery/shaft **(A9)**	They should be cleaned and made functional. Necessary work shall be carried out for easily accessible gallery. Proper lighting arrangement should be provided It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority. It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority.
				Body Wall	6. There is excessive seepage/sweating along gallery/shaft- seepage at staircase in M-7**(A10)** 7. There is Excessive seepage/sweating on downstream face of Monolith no. 7, sweting on overall D/s face	It should be kept under observation and necessary remedial measure to be taken by permission of field competent authority. It should be kept under observation & leaching material should be sent to MERI/ Lab for testing.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					observed**(A11)** 8. Sweating observed in M-1 to M-4 & excessive seepage observed in M-7 to M-8(A11)	Proper remedial measures shall be taken to reduce leakage
					9. There is considerable leaching from the seepage water **(A12)**	
				Spillway	10. The embedded parts of spillway gates, emergency gates and stop-logs in Is not sound condition and free from corrosion**(A20)**	Proper remedial measures to be taken in consultation with Mechanical Organization
				River Sluice	11. The overall condition of river outlet works/river sluices satisfactory **(A20)**	Proper remedial measures to be taken in consultation with Mechanical Organization
				Instrumentation	12. Majority of instruments are in under repair. **(B9)**	Proper remedial measures to be taken in consultation with IRD, Nashik.
26	Name: **Chikotra** Tal. Ajara Dist. Kolhapur Year of completion :**2001** Location : Longitude 16°13'30" Latitude 74°12'23" , Height :**59.953 m** Gross Capacity :**43.115 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1226**	23.04.2021 19.10.2021	Shri M. S. Surve SE, KIC Kolhapur	D/s Face	1Two seepage release inflow is observed in conduit at Ch. 110 & 170 m from service gate. Also observed some corrosion boils (A4)	Mapping of sweating with respect to reservoir water level should be done.
				Instrumentation	2 Instruments not installed(B9)	Proper action shall be taken in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
27	Name: **Kumbhi** (Gated) Tal. Gaganbavda Dist. Kolhapur Year of completion : 2007 Location : Longitude73°51'49" Latitude 16°31'29" Height : 42.58 m Gross Capacity : 76.88 Mm3 Sr.No.In Large Dam Register 2009: MH09HH1671	12.05.2021 24.10.2021	Shri M. S. Surve SE, KIC Kolhapur	Gallery/ Conduit Instrumentation	1. The conduit structurally sound but minor leakages are observed in conduit (A4) 2. Instruments not installed (B9)	After necessary investigation, repairs should be carried out to stop the leakage. Proper action shall be taken in consultation with IRD, Nashik.
28	Name: **Palaeshwer** Tal. Shahuwadi Dist. Kolhapur Year of completion : 2011 Location : Longitude73°52'30" Latitude 17°00'15" Height : 42.15 m Gross Capacity : 9.11 Mm3 Sr.No.In Large Dam Register 2009: MH09HH1671	28.04.2021 21.11.2021	Shri M. S. Surve SE, KIC Kolhapur	W.W.Bar Instrumentation	1 In Monsoon stone masonry of waste weir bar was damaged severely (B7) 2 The coping was damaged with masonryportion (B7) 3 Whole masonry wall needs repair urgently.(B7) 4 Instruments not installed (B9)	Necessary remedial measures should be carried out. Necessary remedial measures should be carried out. Necessary remedial measures should be carried out. Proper action shall be taken in consultation with IRD, Nashik.
29	Name: **Tulshi** Tal. Radhanagari Dist. Kolhapur Year of completion :**1978** Location : Longitude 74°01'00" Latitude 16°31'15" Height : 48**.6 m** Gross Capacity :**96.28 Mm^3** Sr.No.In Large Dam Register	19.04.2021 09.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Downstream of Dam Gates	1. Measured rate of seepage on 29/08/2021 is 15 lps at reservoir level 616.910 (A1) 2. There is signs of water logging, slushy conditions or growth of aquatic weeds on the downstream of the dam (A2) 3 The alternative power system	Source of the seepage should be identified and necessary arrangement should be done to stop the seepage. Necessary remedial measures should be carried out. Necessary remedial measures should

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	2009: **MH09HH0726**			Instrumentation	for gate operation is not working properly (A19) 3 There is Concrete /masonary deterioration (B8) 4 Instruments not installed except one rain gauge at dam site (B9)	be carried out. Necessary remedial measures should be carried out. Proper action shall be taken in consultation with IRD, Nashik.
30	Name: **Upwade** Tal. Karaveer Dist. Kolhapur Year of completion :**1995** Location : Longitude 74°02' Latitude 16°38' Height : 32.81 **m** Gross Capacity 2.71 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH0726**	05.05.2021 24.10.2021	Shri M. S. Surve SE, KIC Kolhapur	Instrumentation	1. Instruments not installed. (B9)	Proper action shall be taken in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
b)Executive Engineer , Medium Project Division No2, Kolhapur						
31	Name: **Ghatprabha** (Phatakwadi) Tal. Chandgad Dist. Kolhapur Year of completion : 2009 Location : Longitude 74°04'20" Latitude 15°56'45" Height : 48**.30 m** Gross Capacity : 43**.75 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1900**	07.05.2021 30.11.2021	Shri M. S. Surve SE, KIC Kolhapur	General W.W.Bar End Weir Outlet Gates W.W.Bar	1.There is obstructions due to excessive rainfall with land slide, large size boulders with soil & guide wall is collapsed in the stilling basin (A14) 2 Right side guide wall is Collapsed due to heavy rainfall and land slide On left side of W.W. there is seepage through saddle dam & gradual land slide in D/S portion of dam. (A16) 3.End weir is not completed(A17) 4 The service gate vibrates more while operating service gate needs repair. There is No supply of electricity on dam site Generator is necessary Maintains and repairing of service and emergency gate is necessary (A20) 5 Small amount of leakages was observed through waste weir(B7) Instruments not installed (B9) 7.Some Pitching under side of well bridge is disturbed (40sq.m(B15)	Guide wall shall be get repaired as suggested by Design Dn.(MD2)CDOTo avoid land slide obtain the opinion from Sr.Geologist, Geology Dn CDO Nashik and do the needful. Guide wall shall be get repaired as suggested by Design Dn.(MD2)CDO Proper action shall be taken to complete it. It should be repaired properly consultation Mechanical organization It should be repaired. Proper action shall be taken in consultation with IRD, Nashik. It should be repaired
32	Name: **Jambre** Tal.Chandgad Dist. Kolhapur	07.05.2021 30.11.2021	Shri M. S. Surve SE,	Emergency Gate	1. Rubber seals slot are on opposite(wrong) side needs	It should be repaired properly consultation Mechanical organization

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Year of completion : 2013 Location : Longitude 74°06'40" Latitude 15°52'47" Height :**58 m** Gross Capacity : 23**.23 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1925**		KIC Kolhapur	Crest of Dam Instrumentation	Repairing .Emergency gate is not in plumb line need maintaince**(B5)** 2. There is not providing an all-weather road surface.(B6) 3. Instruments not installed (B9)	Necessary remedial measures should be carried out. Proper action shall be taken in consultation with IRD, Nashik.
33	Name: **Jangamhatti** Tal.Chandgad Dist. Kolhapur Year of completion : 2005 Location : Longitude 74°17'00" Latitude 15°51'30" Height : 31.40**m** Gross Capacity : 34**.21 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1365**	15.05.2021 21.11.2021	Shri M. S. Surve SE, KIC Kolhapur	W.. W. Bar Instrumentation	1. Excess amount of leakages was observed through waste weir B7) 2. Instruments not installed(B9)	Necessary remedial measures should be carried out. Proper action shall be taken in consultation with IRD, Nashik.
34	Name: **Khleloshi** Tal.Radhanagari Dist. Kolhapur Year of completion : 2010 Location : Longitude 16°31'30" Latitude 73°49'53" Height : 38.60**m** Gross Capacity : 5.603 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1365**	19.04.2021 09.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Instrumentation	1. Instruments not installed(B9)	Proper action shall be taken in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
35	Name: **Patgaon** Tal.Bhudargad Dist. Kolhapur Year of completion : 2007 Location : Longitude 73°56'15" Latitude 16°07'09" Height : 37.90**m** Gross Capacity :105.242 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1365**	23.04.20211 9.10.2021	Shri M. S. Surve SE, KIC Kolhapur	Instrumentation	1. Instruments not installed(B9)	Proper action shall be taken in consultation with IRD, Nashik.
(b) Executive Engineer, Kolhapur Irrigation Division (South) Kolhapur						
36	Name: Phaye Tal.Bhudargad Dist. Kolhapur Year of completion : 2005 Location : Longitude 74°04'15" Latitude 16°07'04" Height : 34.12**m** Gross Capacity : 3.932 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1629**	23.04.2021 19.10.2021	Shri M. S. Surve SE, KIC Kolhapur	Gallery/Well Instrumentation	1. There is structural damages to the intake well 6 holes are found at various level**(A4)** 2. There is leakage observed through the well proper and the conduit **(A4)** 3. There is damage noticed to the conduit concrete, breast wall and gate slots **(A4)** 4. Instruments not installed.(B9)	It should be repaired properly. It should be repaired properly to reduce leakages. It should be repaired properly. Proper action shall be taken in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
37	Name: **Chitri** Tal.Chargadist Dist. Kolhapur Year of completion : 2011 Location : Longitude 74°15'26" Latitude 15°52'49" Height : 33.05**m** Gross Capacity : 7.00 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1889**	26.04.2021 30.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Gallery/ Conduit Instrumentation	1.Steel plates provided D/s of conduit portion are damaged.(A4) 2.Instruments not installed (B9)	Necessary remedial measures should be carried out. Proper action shall be taken in consultation with IRD, Nashik.
38	Name: **Kitwad** Tal.Ajara Dist. Kolhapur Year of completion : 2004 Location : Longitude 74°09'30" Latitude 16°04'15" Height : 55.11**m** Gross Capacity : 53.414 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1889**	26.04.2021 30.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Instrumentation	1 Instruments not installed (B9)	Proper action shall be taken in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
39	Name: **Kondoshi** Tal.Bhudargad Dist. Kolhapur Year of completion : 2000 Location : Longitude 74°09'03" E Latitude 16°04'15" N Height : 30.27**m** Gross Capacity : 2.76 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1889**	22.04.2021 19.10.2021	Shri M. S. Surve SE, KIC Kolhapur	Instrumentation	1 Instruments not installed (B9)	Proper action shall be taken in consultation with IRD, Nashik.
40	Name: **Lakikatti** Tal.Chandagad Dist. Kolhapur Year of completion : 2000 Location : Longitude 15°55'30" N Latitude 74°20'0" E Height : 36.34**m** Gross Capacity : 9.239 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1889**	15.05.2021 21.11.2021	Shri M. S. Surve SE, KIC Kolhapur	Outlet Gates Instrumentation	1 The stem rods for lifting the gates is not perfectly straight(B5) 2 Instruments not installed (B9)	It should be repaired properly consultation Mechanical organization Proper action shall be taken in consultation with IRD, Nashik.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
41	MegholiUngated Tal. Bhudergad Dist. Kolhapur Year of completion : 2000 Location : Longitude $16^0$11'03 N Latitude $74^0$07'00 E Height : 34.12 **m** Gross Capacity : 3.932 **Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1536**	23.04.2021	Shri M. S. Surve SE, KIC Kolhapur	Seepage Measurrment	Due to geological condition of the strata in the foundation, some seepages are observed in the downstream. Leakages are not observed from s waste weir bar but due to peculiar geological conditions Like dykes in waste weir bar (A15)	Necessary remedial measures are done in comsultation with CDO Nashik
(4) Superintending Engineer, Satara Irrigation Circle, Satara						
(a) Executive Engineer, Satara Irrigation Division, Satara						
42	Name :**Dhom** (Gated) Tal. Wai Dist. Satara Year of completion :**1976** Location : Longitude **73^0 40'** Latitude **$17^0$58'** Height :**50.00 m** Gross Capacity :**332.00 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH0655**	01.06.2021 20.12.2021	Mr.Doiphode S. L. SE, S.I.C., Satara	Dam Body Downstream Face Guide walls Outlet Gates	1. Junction of Earthwork with Masonry/ Concrete Dam Entire length of Conduct is not in perfect order and profile and not free from offsets open Joints cracks and Leakage (A4) 2 Excessive seepage/ sweating observed in d/s section of dam.(A11) 3 Significant leakage on d/s face of dam observed.- details not given (A11) 4 Guide wall of canal HR structure damaged and Collapsed. (A16) 5 The alternative power system needs renovation Needs Express Feeder for gate Operation (A19) 6 The evidence of	After rechecking of deficiency by competent field authority, Necessary repairs should be carried out in consultation with CDO Nashik. Necessary remedial measures should be carried out. . Necessary remedial measures should be carried out. Necessary remedial measures should be carried out. Necessary remedial measures should be carried out.

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Instrumentation	degradation to condition of instrument (rusting, vandalism) – observed (B9) Piezometers: Out of 13 Casagrande piezometers 10 piezometers are not in working condition. (B9)	Necessary repair should be carried out in consultation with IRD, Nashik
					7 Pointing of upstream face of dam not in good condition.. (B11)	Proper remedial measures shall be taken.
					8 Because of canal rotation water heavy leakages could not be stopped(B12)	Necessary remedial measures should be carried out.
				Upstreme Face Downstream face	9The portion of upstream and downstream of dam is not easily accessible due to growth of bushes grass and trees (B13)	Necessary remedial measures should be carried out.
				Acces Road	10 For Pier No. 1, 4, 5 - some pitting of concrete of wall plates observed (B14)	Proper remedial measures shall be taken.
				Spillway		
43	Name :**DhomBalkavadi** (Gated) Tal. Wai Dist. Satara Year of completion :**2006** Location :	01.06.2021	Mr.Doiphode S. L. SE, S.I.C., Satara	D/s of Dam	1. Slushy condition or water logging immediately downstream of dam observed.(A2)	Proper remedial measures shall be taken.
				Gallery	2. For Gallery work like bottom	Proper remedial measures shall be

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Longitude **73^{0} 42' 30"** Latitude **17^{0}51'00"** Height :**65.10 m** Gross Capacity :**115.53 Mm^{3}** Sr.No.In Large Dam Register 2009: **MH09HH1655**	20.12.2021			flooring And proper arrangement for drainage of VDP is to be needed.(A8)	taken.
				Water Conveyance Structure	3. There are not proper arrangements made for the measurement of seepage into the gallery the seepage not measured separately from-Porous pipes,Foundation drains,Monolith joints(A8)	Proper remedial measures shall be taken.
				Gallery	4. Out of 14,13 VPD Piers are blocked with leachate material and due to which only VPD running fully with extreme turbulent flow like waterfail,it shows serious concern @ the maintenance of VPD (A9)	It should be kept under observation & leaching material should be sent to MERI/ Lab for testing.
					5 As water level during inspection was very low hence no leakage is observed .when water level rises there is heavy lekages is observed through one of the V.D.P. . (A10)	Necessary remedial measures should be carried out.
				Gates	6 Leakage through longitudinal duct of ICPO. (A10)	Necessary remedial measures should be carried out.
				EDA	7 Stagnant water observed in stilling basin. Needs dewatering.(A14)	Necessary remedial measures should be carried out.
				Outlet Gates	8 Outlet Gates not Provided. (B5)	Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary remedial measures should

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					9 Concrete or Masonary Deteroration.(B8)	be carried out.
				Instrumentation	10.The instruments are installed in the body of dam but are not yet connected properly to dial gauges. So they are not in working condition.(B9)	Necessary repair should be carried out in consultation with IRD, Nashik.
(b) Executive Engineer, Krishna Irrigation Division, Satara						
44	Name **Kanher** (Gated) Tal. Satara Dist. Satara Year of completion :**1986** Location : Longitude **73^{0}55'** Latitude **17^{0}45'** Height :**50.34 m** Gross Capacity **: 286.00 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1141**	28..05.2021 02.12.2021	Mr.Doiphode S. L. SE, S.I.C., Satara	Gallery	Damage noticed to the Conduit Concrete- Secondary Concrete Damaged Seepage noticed around the Conduit (A4)	Necessary repairs be carried out.
				Relief wells	The relief wells (4 nos.) are not in good working condition and functioning well. (A5)	Necessary repairs should be carried out
				Body Wall	Safety issues observed like inadequate handrails, ventilation Problems of inadequate drainage observed, like slippery stairs, water logging of gallery, clogged porous or foundation drains. (A8)	Necessary repairs should be carried out
				Gallery	The problems ensuring correct functioning of instrument i.e. lighting ventilation, etc (A8) 5The other evidence of thedrain	Necessary repairs should be carried out

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					being blocked/ having reduced section observed. (A9)	
				Drains	6. The foundation and porous holes not cleaned periodically. (A9)	Necessary repairs should be carried out to clean the drains.
				Gallery	7. 55 porous pipes are not in function, needs to be cleaned.(A9)	Necessary repairs should be carried out to clean the drains.
					8.Excessiven Seepage/ sweating at any location along gallery/shaft observed Significant leakage is observed. Location details not given (A10)	Necessary repairs should be carried out to clean the drains. Necessary repairs should be carried out
					9 There has been considerable leaching from the seepage water and deposition of lime near the seepage exit spots. (A12	Leaching material should be tested and remedial measures should be carried out as per CWPRS,Pune
					10.The energy dissipation arrangement is not working satisfactorily- all concrete washed out, lining damaged for irrigation outlet. (A14)	
				EDA	11.The foundation erosion or scour noticed in d/s side of guide wall of waste weir.(A16)	Necessary repairs should be carried out
				Guide walls/Divide walls	12. There is surface erosion damaged caused to face or body of such walls-LHS guide wall damaged. (A16)	Necessary repairs should be carried out

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				End Weir	13.The scour noticed on the immediate downstream - on right side of end weir some scour & retrogression is observed. Some pitting of surface observed. (A17)	Necessary repairs should be carried out Necessary repairs should be carried out
				Hoist/Crane	14. Field officers reported that , goliath /gantry crane is not functioning properly (A18) 15.Hoist of EG of power house outlet is not working.(A18) 16. Alternate power system of gate operation needs replacement.(A19)	Necessary repairs should be carried out in consultation with Mechanical Organization.
				Outlet Gates	17.Operation of outlet gate is not smooth (A20) 18.The stem rods for lifting the gates is not perfectly straight (B5)	Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out in consultation with Mechanical Organization.
				Instrumentation	19.Instruments are not infunction. (B9) 20.Problems observed while inspecting instruments- details not given(B9)	Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repair should be carried out in consultation with IRD, Nashik.
				Gates	21. Minor Leakages from Radial Gate no.1 is observed(B12)	Necessary work shall be carried out
				Access Road	22.The portion of upstream and of dam is not easily accessible due to growth of bushes	Necessary repairs should be carried out in consultation with Mechanical

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					grassand trees. (B13)	Organization.
45	Name **Urmodi** (Gated) Tal. Satara Dist. Satara Year of completion :**2012** Location : Longitude $73^0$54'40" Latitude $17^0$40' 00" Height : 51.10 m Gross Capacity : 282.14 Mm^3 SpillwayCapacity :3840 Cumecs Sr.No.In Large Dam Register 2009: MH09HH1594	18.05.2021 02.12.2021	Mr.Doiphode S. L. SE, S.I.C., Satara	Instrumentation Spillway Gates	Instruments need to repair. (B9) General condition of rubber seals- Gate no. 2 showing bottom rubber seal leakage at middle part..	Necessary repair should be carried out in consultation with IRD, Nashik Necessary repairs should be carried out in consultation with Mechanical Organization
(c) Executive Engineer, Koyana Irrigation Division, Koyananagar						
46	Name: **Kolkewadi**(Gated) Tal. Chiplun Dist. Ratnagiri Year of completion :**1975** Location : Longitude **$73^0$38' 50''** Latitude **17^0 25'** Height :**66.00 m** Gross Capacity :**36.22 Mm^3** Sr.No.In Large Dam Register	08.05.2021 20.11.2021	Mr.Doiphode S. L. SE, S.I.C., Satara	Gallery/Shaft Condition D/s Face Seepage Measurment	1. Total no. of foundation holes are 119, 109 are in chocked condition. (A9) 2. Excessive seepage /sweating observed on downstream face(A11) 3. Measured rate of seepage flow is 283.96 lpm, in one day inspection on 06/05/2021.	Necessary repairs should be carried out to clean the holes. Necessary repairs should be carried out to clean the holes. Necessary repairs should be carried out to reduce seepage..

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	2009:**MH09HH0527**				(A11)	
				Gallery	4. Leachatedeposition observed.- all over gallery portion. Excessive seepage and leaching observed through the body of the dam and the foundation. (A12)	Leaching material should be tested and remedial measures should be carried out as per CWPRS,Pune
				Seepage Measurment	5. Total leakage is 319.22 LPM, total seepage during first filling in May 1975 was 43.00 LPM. (A15)	Necessary repairs should be carried out to reduce seepage..
				Spillway Gates	6. Stoplog or Emergence Gate not Provided (B5)	Necessary repairs should be carried out in consultation with Mechanical Organization
				Spillway and Energy Dissipation Structure	7. Abrasion of the glacious concrete at few locations (especially near upper tangent point of the ogee) is observed. (B8)	Necessary repairs should be carried out
47	Name: **Koyana** (Gated) Tal. Patan Dist. Satara Year of completion :**1967** Location : Longitude **73^{0}44' 26''** Latitude **17^0 23'00"** Height :**103.02m** Gross Capacity :**2980.68 Mm^3** Spillway Capacity : 5742.25cumecs Sr.No.In Large Dam Register 2009:**MH09UH0100**	08.05.2021 20.11.2021	Mr.Doiphode S. L. SE, S.I.C., Satara	Gallery	1. Major number of drain holes choked. (number of holes not mentioned) (A9)	Necessary repairs should be carried out to clean the holes
				Energy Dissipation Structure	2. Evidence of abrasion, cavitations or scour on dissipation structure observed - Surface of stilling basin apron 3 cm to 13cm eroded. (A14)	Necessary repairs should be carried out
				EDA	3. The energy dissipation arrangement is not working satisfactorily for the all discharges. (A14)	Necessary repairs should be carried out
				Outlet gates	4. There are vibrations and noise noticed in operation of	Necessary repairs should be carried out

Sr.No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					outlet gates. (B5)	
				Instruments	5. There is a evidence of degradation to condition of instrument (rusting, vandalism) - details not given. (B9)	Necessary repairs should be carried out
				General Condition	6. Appropriate cross drainage work need to be provided to access road.(B6)	Necessary repairs should be carried out
				Instruments	7. There is a evidence of degradation to condition of instrument (rusting, vandalism) - details not given. (B9)	Necessary repairs should be carried out
				Stilling Basin	8. Stilling Basin observed flooded. Due to standing water instilling basin it could not be inspected.(A14)	Necessary repairs should be carried out
				Spillway Gates/Sluice gates	9 Stop log of penstock No.1 & 2 and river sluice gate couldnot be lowered totally due to rusted guide tees.(B5)	Necessary repairs should be carried out in consultation with Mechanical Organization
					10 Stop log gate of river sluice is not operated up to seal bottom level from last many years due to wear & tear of guide T-valve.(B10)	Necessary repairs should be carried out in consultation with Mechanical Organization

[B] Chief Engineer (S.P.),Water Resources Department, Pune						
(1) Superintending Engineer, Kukadi Irrigation Circle, Pune						
(a) Executive Engineer, Kukadi Irrigation Dn No. 1, Narayangaon, Dist.Pune						
48	Name: **Manikdoh** (Gated) Tal. Junnar Dist. Pune Year of completion : **1984** Location : Longitude :**73^{0}49'** Latitude :**19^0 14'** Height :**57.80 m** Gross Capacity :**308.06 Mm^3** Spillway apacity:**143m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH1060**	18.05.2020 26.11.2020	Shri H.T. Dhumal SE KIC, Pune	Gallery	1. Safety issues like inadequate handrails, lighting or ventilation, etc observed. Problem to inspect the pump observed. The deterioration of pump and associated equipment observed. (A8)	Providing proper draining arrangement seepage in the gallery. Leakages to be minimised by suitable treatment on upstream surface.
					2. Problems of inadequate drainage (slippery stairs, water logging of gallery, clogged porous or foundation drains, etc) observed (A8)	The foundation and porous holes shall be cleaned periodically.
					3. Problem to inspect the pump observed - pumps are inworking condition - continuous dewatering…) (A8)	Necessary repairs should be carried out
					4. The deterioration of pump and associated equipment observed.(A8)	Necessary repairs should be carried out
					5. The foundation and porous holes not cleaned periodically, with reaming tool and air water jetting. (A9)	The foundation and porous holes shall be cleaned periodically.
				Body Wall	6. There has been a tendency for gradual reduction of drainage through pipes and progressive appearance of sweating on the downstream face of the dam. (Location not mentioned) (A9)	Necessary repairs should be carried out
					7. Excessive seepage/sweating along	Necessary repairs should be carried out to reduce seepage..

					gallery/shaft observed (location - ch. 435 to 600) (A10)	Necessary repairs should be carried out to reduce seepage..
					8. Significant or excessive leakage along gallery/shaft / porous drain observed. (A10)	Necessary repairs should be carried out to reduce seepage..
				Downstream Face	9. It is observed that there is excessive seepage, sweating on the downstream face of the dam (Location not mentioned) (A11)	Necessary repairs should be carried out to reduce seepage..
				Energy Dissipation Structure	10. Excessive seepage and leaching through the body of the dam and the foundation.- Leaching observed at left guide wall. (A12)	Necessary remedial measures should be carried out. Leached material to be collected and weighed & record of quantity and weight to be maintained. Leaching material should be tested from Lab.
				Gallery	11. There has been considerable leaching from the seepage water and deposition of lime near the seepage exit spots. (Location not mentioned) (A12)	Necessary repairs should be carried out .
				EDA	12. Obstructions observed in or immediately downstream of dissipation structure -needs nalla regradation. (A14)	Necessary repairs should be carried out .
					13. Spalling of concrete observed at some places. (Location not mentioned (B8)	Necessary repairs should be carried out .
				Upstream Face	14. The pointing on upstream face of the dam is not in good condition. (B8)	The repairs should be carried out through mechanical organization
				Seepage Measurment	15. The approximate quantity of the leakage through the gates.- not provided. (B10)	
				Outlet Gates	16. The Surface of Gate and Paint deteriorated (B11)	

49	Name: **Wadaj** (Gated) Tal. Junnar Dist. Pune Year of completion : **1982** Location : Longitude :**73^{0}52'30"E** Latitude :**19^0 09'00" N** Height :**28.00 m** Gross Capacity :**36 Mm^3** Spillway apacity:**1426m^3/sec** Sr.No.In Large Dam Register 2009: **MH09HH1006**	05.06.2021 11.11.2021	Shri S.M. Sangale SE KIC, Pune	Water Conveyance Structure Spillway Gates Instruments Spillway Gates	1. The relief wells are not in good working condition and are not functioning well. (A5) 2. To the immediate left side of non overflow section (NOF) it shows heavy leakages, records of the same is maintained by field officiels(A10) 3. There is an evidence of seepage or leakage from water conveyance structure at ch. 435m. (A11) 4. Gate 1 & 3 is not working smoothly (A20) **5.** The instruments are not installed29 working, 40 not working**. (B9)** Piezometers (i) Stand pipe - 16 nos. - not working condition (B9) (ii) (ii) Casagrande - 19 nos. - not in working condition(B9) 6. The condition of the steel surface and the surface paint deteriorated - gate 3 & 5 is leakage through bottom rubber seal. (B11)	Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out in consultation with Mechanical Organization. Necessary repair should be carried out in consultation with IRD, Nashik Necessary repairs should be carried out in consultation with Mechanical Organization.
50	Name :**Dimbhe** (Gated) Tal. Ambegaon Dist. Pune Year of completion :**2001** Location : Longitude **74^{0}44'30"E** Latitude **19^{0}5'45" N** Height **: 72.10 m**	15.05.2021 11.11.2021	Shri S.M. Sangale SE KIC, Pune	Gallery	1. Problems of inadequate drainage (slippery stairs, water logging of gallery, clogged porous or foundation drains, etc) observed. (A8) 2. Problem to inspect the pump	Seepage in the gallery to be minimised by suitable treatment to upstream portion

	Gross Capacity :**328.22 Mm^3** Spillway capacity: **2870 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09HH1558**				observed (A8) 3. The obstruction observed preventing or impairing smooth operation (A8) 4. Not mentioned anything about deterioration of pump and associated equipment (A8) 5. The flow in the drain is noticeably sporadic/ irregular(A8) 6. The foundation and porous holes not cleaned periodically, with reaming tool and air water jetting. (A9) 7. There has been a tendency for gradual reduction of drainage through pipes and progressive appearance of sweating on the downstream face of the dam. (Location not mentioned) (A9) 8. 7. excessive leakage along gallery/shaft / porous drain observed (location not mentioned) (A10) 9. There has not been substantial progressive reduction in the seepage through the foundations. Cause not mentioned / no. of choked holes not given.(A10) 10. Excessive seepage/ Sweating throughout on downstream face. Significant leakage on downstream face observed (location not mentioned) Seepage water	Porous pipes & drain holes should be cleaned for proper functioning. Quantum of seepage should be monitored monolithwise. Seepage in the gallery to be minimised by suitable treatment to upstream portion Seepage is to be minimised by suitable treatment to upstream portion
				Downstream Face		

					springs observed in the downstream area (A11)	
				Gallery	11. Leachate deposition observed. (A12)	Leached material to be collected and weighed & record should be maintained. Leaching material to be tested from lab.
					12. There has been considerable leaching observed from the seepage water and deposition of lime near the seepage exit spots. (A12)	
				Energy Dissipation Structure	13. Problems observed inspectingenergy dissipation structure, due to flooded flip bucket. (A14)	Necessary repairs should be carried out
				D/s face	14. Obstructions observed in or immediately downstream of dissipation structure (near bridge over river) (A14)	Necessary repairs should be carried out
				Energy Dissipation Structure	15. The concrete surface of the stilling basin & apron is not in good condition. (details not given) (A14)	Necessary repairs should be carried out
				U/s Slope	16. Upstream slope guniting disturbed at some places(B8)	Necessary repairs should be carried out
					17. Concrete/masonry deterioration observed (B8)	Necessary repair should be carried out in consultation with IRD, Nashik
				Instruments	18. The instruments like plumb bob, pressure cells are not installed (B9).	Necessary repairs should be carried out in consultation with Mechanical Organization
				Outlet Gates	19. The surface of gates and the paint deteriorated. (B11)	
51	Name:**Pimpalgaonjoge** Gated Tal. Junnar Dist. Pune Year of completion :**2000** Location : Longitude :**73^{0}52'30"** Latitude :**19^{0}18'45"**	12.06.2021 12.11.2021	Shri S.M. Sangale SE KIC, Pune	Seepage Measurment	1. The approximate quantity of the leakage through the gates is 10 cusecs.(A4)	Seepage is to be minimised by suitable treatment to upstream portion
					2. The leakage is observed through the well proper and the conduit concrete or masonry. (quantity of	Seepage is to be minimised by suitable treatment to upstream portion

	Height :**34.204 m** Gross Capacity :**235.52 Mm^3** Spillway capacity:**1167.3 cu sec** Sr.No.In Large Dam Register 2009:**MH09MH1520**			Instrumentation Gates	leakage is not mentioned) (A6) 3. The pan evaporimeter not in working order. (B9) 4. The condition of the steel surface and the surface paint deteriorated. (B11) 5. The approximate quantity of the leakage through the gates is 5 to 6 cusecs (B12)	Necessary repairs shall be done in consultation with IRD, Nashik. Necessary repairs should be carried out in consultation with Mechanical Organization.

(b)Executive Engineer ,Dimbhe Dam Division, Manchar, Dist. Pune						
52	Name :**Chilewad**i (Gated) Tal. Junnar Dist. Pune Year of completion :**2000** Location : Longitude **73^{0}50'00"E** Latitude **19^{0}21'00"N** Height :**62.56 m** Gross Capacity :**25.30 Mm^3** Spillway capacity: **1686 m^3/ sec** Sr.No.In Large Dam Register 2009:**MH09HH1553**	21.05.2021 03.11.2021	Shri S.M. Sangale SE KIC, Pune	Downstream Drainage Energy Dissipation Structure Waste Weir Bar and Tail Channel	1. There are signs of water logging, slushy conditions or growth of aquatic weeds on the downstream of the dam. (A2) 2. Evidence of abrasion, cavitation or scour on dissipation structure observed - A Part of Stilling basin is damaged)(A14) 3. 3 The concrete surface of the stilling basin and apron (or bucket) is not in good condition - One Side of West Weir coping eroded (Approx size - 19 X 5 m)(A14) 4. The under drainage of the stilling basin (or bucket) is not functioning satisfactorily. All the open drain holes are not clear and functioning well. (A14) 5. One Side of West Weir coping eroded (Approx size - 19 X 5 m) (A14) 6. The scouring observed on	Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried

					downstream side of the bar and/or EDA.Details not given. (A17)	out.
					7. Erosion on surface at d/s side of weir observed. The concrete eroded size - 19x5m. (A17)	Necessary repairs should be carried out.
					8. The coping over the spillway bar in good condition or not…? (not clearly mentioned) (B7)	Necessary repairs should be carried out.
				Hoists, Cranes and Operating Mechanisms EG	9. Emergency gates are not in working condition, they are in hanging position at top level. Guide tees are bent, guide tee is absolutely disturbed, and corroded and not functioning. (B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
					10. The considerable noise noticed in operation of outlet gate. (B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
					11. The stem rods for lifting the gates is bend in some length(B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
					12. The storing arrangement for emergency gate leaves and the stop logs is not in satisfactory condition. The Emergency Gate is in hanging condition.(B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
				Access Road	13. The access road of WBM needs repair. The obstructions along or at entrance to access road observed, river bridge is needed. (B6)	Necessary repairs should be carried out.
					14. All the structures on the access roads are not adequately safe for allowing passage of plant machinery	Necessary repairs should be carried out.

				Instrumentation	for emergent repairs.(B6) 15. Out of 8 only 2 piezometers are in working condition. (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
53	Name :**Yedgaon** Tal. Junnar Dist. Pune Year of completion :**1977** Location : Longitude **74^{0}01'30"** Latitude **19^{0}10'30"** Height :**23.60 m** Gross Capacity :**69.204 Mm^3** Spillway capacity: **3844 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09MH0658**	05.06.2021 11.12.2021	Shri H.T. Dhumal SE KIC, Pune	Instrumentation	1. The instruments are not in working order. Relief wells - 29 working, 40 not working (B9) Piezometers (i) Stand pipe - 8 nos. - not in working condition (ii) Casagrande - 41 nos. –not in working ondition(B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
(c)Executive Engineer ,Kukadi Irrigation Division No. 2, Shrigonda, Dist. Ahmednagar						
54	Name :**Ghod**(Gated) Tal. Shirur Dist. Pune Year of completion :**1965** Location : Longitude **74^{0}51'50** Latitude **17^0 8'10"** Height :**34.75 m** Gross Capacity :**216.30 Mm^3** Spillway capacity:**7465 m^3/ sec** Sr.No.In Large Dam Register 2009: **MH09MH0117**	05.05.2021 10.12.2021	Shri S.M. Sangale SE KIC, Pune	Structural performance Spillway EDA Body Wall EDA Downstream Face	1. seepage noticed in conduit(A4) 2. Sweating was observed d/s of spillway gate (A11) 3. Few gate spillway portion minor leakage/sweating shown (A11) 4. EDS under drainage Blocked due to debris material fall (A14) 5. The surface erosion/damage caused, to face or body of walls observed(A16) 6. The erosion and damages observed in r/s portion of check wall.(A17) 7. The scour noticed on the immediate downstream of	Quantum of seepage should be monitored monolithwise. Necessary repairs should be carried out. Necessary repairs be carried out in consultation with Mechanical Organization. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out.

					check wall.(A17)	
				Outlet Gates	8. (i)GLBC gate properly operating but stem rod is bent, seal brass cap not fixing.(ii) GRBC - leakages shown on both service gates (B5)	Necessary repairs be carried out in consultation with Mechanical Organization
					9. GLBC stem rod bend while operating.(B5)	Necessary repairs be carried out in consultation with Mechanical Organization
				Spillway	10. The lifting beams are not in proper working order and not in leveled condition.(B5)	
				Acess Road	11. It does not provide an all-weather road surface - top service road surface (B6)	Necessary repairs should be carried out.
				Instrumentation	12. Piezometers: Stand pipe - 10 nos. - not in working condition. (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
55	Name **:Sina** (Gated) Tal. Karjat, Dist.A'Nagar Year of completion :**1985** Location : Longitude **74°57'00"** Latitude **18°49'00"** Height :**28.5 m** Gross Capacity **: 67.95 Mm^3** Sr.No.In Large Dam Register 2009:**MH09MH1142**	05.05.2021 10.12.2021	Shri H.T. Dhumal SE KIC, Pune	D/s Drainage	1. Local ponds at 50m from the toe drain at ch 1500m. (A2)	Necessary repairs should be carried out.
				Concrete dam sections	2. The entire length of conduit is not in perfect order & profile & free from offsets, open joints, cracks & leakage- Details not given(A4)	Necessary repairs should be carried out.
				Stilling basin	3. Water accumulated in stilling basin could not be drain out in proper manner(A14)	Necessary repairs should be carried out.
					4. Under drainage of stilling basin is unsatisfactory - drain holes shall be cleaned.(A14)	Necessary repairs should be carried out.
				Spillway	5. Some minor leakages at spillway of dam are observed. (A 15)	Necessary repairs should be carried out.
				Guide walls/Check Walls	6. Approach wall to HR of SRBC is damaged - needs to be reconstructed.(A16)	Necessary repairs should be carried out.
					7. Erosion and damages	Necessary repairs should be carried

					observed in right side portion of check wall.(A16)	out.
					8. Scour noticed immediate downstream of check wall.(A16)	Necessary repairs should be carried out.
				Outlet Gates	9. SRBC service gate no. 1 is not properly working. SLBC service gate & emergency gate both are not working properly. EG is rusted and guide channel is damaged. (B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
					10. SLBC & SRBC stem rods bend. (B5)	Necessary repairs should be carried out in consultation with Mechanical Organization.
					11. The operation of outlet gates is not smooth. (B5)	
				Acess Road	12. There is no properly constructed and well maintained access road.(B6)	Necessary repairs should be carried out.
				Instruments	13. Pan Evaporimeter - 1 Nos.- Not in working condition (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
					14. Wind Direction Recorder - 1 no.Not in working condition (B9)	
(2) Superintending Engineer , Satara Irrigation Project Circle, Satara						
(a) Executive Engineer , Minor Irrigation Division, Satara						
56	Name **:Nagewadi** (Gated) Tal. Wai Dist. Satara Year of completion :**1999** Location : Longitude **$73^0$51'45"** Latitude **$17^0$55'17"** Height :**40.02 m** Gross Capacity **: 6.47 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1518**	04.05.2021 14.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	Earth dam	1. The slushy patch at ch 855 to 870 near rock toe on d/s of the dam observed.(A2)	It should be kept under observation and Necessary repairs should be carried out by permission of competent field authority.
					2. Existence of leakage, springs or wet spots in earthwork (A3)	
				Hoist Arrangement/ EG	3. The hoist mechanism is not available at site.(A18)	Necessary repairs should be carried out in consultation with Mechanical Organization.
					4. Emergency gate –Chain pulley arrangement not	Necessary repairs should be carried

					available at site to take trail of emergency gate.(B5)	out in consultation with Mechanical Organization.
				Instruments	5. Instruments installed not Propely Lighted ,Ventilated and adequately Protected. (B9)	Necessary repairs shall be done in consultation with IRD, Nashik.
				Outlet Gates	6. The surface of gates and paintsare deteriorated. (B11)	Necessary repairs should be carried out in consultation with Mechanical Organization.
57	Name **:Morna (Gureghar)** Tal. Patan Dist. Satara Year of completion :**2000** Location : Longitude **73^{0}50'00"** Latitude **17^{0}17'30"** Height :**47.02 m** Gross Capacity **: 39.55 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1664**	13.05.2021 09.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	Body Wall	1. There is erosion, pitting, or Spalling of the Concrete Masonary surface(A17)	Necessary repairs should be carried out.
				EDA	2. Score Noticed on downstream side of Wear(A17)	Necessary repairs should be carried out.
				Hoist Arrangement	3. The alternate hand operating system of hoist is not working.(A18)	Necessary repairs should be carried out in consultation with Mechanical Organization
				D/s face	4. The indications of major active or inactive landslide observed on d/s of the dam near access road to the dam.(B6)	Necessary repairs should be carried out.
				Acess Road	5. The obstructions along or at entrance to access road-Landslide over access road, partially blocked (B6)	Necessary repairs should be carried out.
				Instrumentation	6. 14 nos foundation type Piezometers and 36 nos embankment type piezometers and uplift pressure cell ,6 nos are not in working condition.(B9)	Necessary repairs should be carried out in consultation with IRD Nashik
				Outlet Gates	7. The condition of steel surface and surfacepaint deteriorated.(B11)	Necessary repairs should be carried out in consultation with Mechanical Organization

58	Name **:Pangare** Tal. Satara Dist. Satara Year of completion :**2000** Location : Longitude **73^{0}52'30"** Latitude **37^{0}09'01"** Height :**32.10 m** Gross Capacity **:** **2.72Mcum** Sr.No.In Large Dam Register 2009:**NA**	29.5.2021 23.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	Tail Channel Well Water Conveance Structure D/s Face	1. Landslide in tail channel @ch 120m from waste weir has been observed.(A7) 2. Evidence of structural distress on d/s of HR well,18m long portion of RCC conduit has sunk ny 0.45 m approx. and leakge through conduit observed.(A6) 3. On d/s of H.R.Well leakage through Coduit (A15) 4. Evidence of seepage or leakage from water conveyance (A15) 5. Could not be inspected due to Presence of Water(A20) 6. Rain cuts/erosion channel present at any Locations(B3)	Necessary repairs should be carried out Necessary repairs should be carried out. Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out Necessary repairs should be carried out
59	Name **:Kalgaon** Tal. Patan Dist. Satara Year of completion :**Work in progress** Location : Longitude **73^{0}53'00"** Latitude **17^{0}19'03"** Height :**32.26 m** Gross Capacity **: 2.692Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH2416**	29.04.2021 09.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	D/S Portion Spillway Stilling Basin EDA Spillway Water	1. Slushy Conditions in the gorge portionon D/S of dam(A10) 2. Little Honycombing is observed(A14) 3. Spillway, Masonary and Concrete are deterorated (A14) 4. Leakage is Observed below stilling Basin (A14) 5. Problems inspecting energy dissipation Structure (A14) 6. Little Cracking is Observed in the Spillway Concrete (A15) 7. Leakage is Observed	It should be kept under observation and Necessary repairs should be carried out by permission of competent field authority. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out Necessary repairs should be carried

				Conveance Structure Spillway	through the Well Proper and the Conduct Concrete and Masonary (A15) 8. Cavation is Observed in End Sill Wall (A17) 9. Little honycombing is observed in the spillway concrete (B7) 10. Leakage is observed in Spillway Portion It is through the foundation of Spillway (B7)	out Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out.
60	Name **:Kusawade** Tal. Satara Dist. Satara Year of completion :**2010** Location : Longitude **73^{0}57'00"** Latitude **17^{0}34'46"** Height :**30.90 m** Gross Capacity **: 3.495 Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH2411**	27.04.2021 21.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	Hoist Arrangement Instrumentation Outlet Gates	1. The alternate hand operation syatem of hoist mechanism not working .(A18) **2.** There is obstructions preventing or impairing smooth operation (A20) **3.** No instruments installed at dam site.(B9) **4.** Surface of Gates and Paint Deteriorated (B11)	Necessary repairs should be carried out in consultation with Mechanical Organization Necessary repairs should be carried out in consultation with Mechanical Organization Necessary repairs shall be done in consultation with IRD, Nashik. Necessary repairs should be carried out in consultation with Mechanical Organization
(b) Executive Engineer, Kanher Canals Division No.2, Karwadi, Karad						
61	Name :**Tarali**(Gated) Tal. Patan Dist. Satara Year of completion :**2007** Location : Longitude **73^{0}54'15"** Latitude **17^{0}32'00"** Height :**73.41 m** Gross Capacity **165.70 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1666**	21.05.2021 06.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	Gallery/Shaft	1. There are problems accessing or inspecting gallery/shaft obstruction. (A8) 2. Foundation gallery is not accessible due to flooding (A8) 3. The Sump Well is flooded with seepage water (A8) 4. Problems of inadequate drainage - There is seepage water in gallery,Some porous drains are Clogged (A9) 5. All Foundation and Porous	Providing proper draining arrangement made gallery accessible. Providing proper draining arrangement made gallery accessible. Necessary remedial measurs should be carried out. Providing proper draining arrangement seepage should be minimized & all porous drains should be cleaned. All Foundation and Porous holes

					holes are not Periodically cleaned (A9)	should be cleaned.
					6. There is Significant or excessive leakage at gallery-No.17 & 18 @ ch.775 & 815 respectively (A10)	Providing proper draining arrangement seepage should be minimized
				OF & NOF Section	7. Sweating and leakages observed on d/s face of dam at Monolith no.3, 4, 4A, 12,13,14,15and16 ,17,18, ,21,21A (A11)	Providing proper draining arrangement seepage should be minimized
				D/S Face	8. The leachate deposition observed on D/s face in monolith (A12)	Leached material to be collected & recorded of quantity & wait to be maintained. Leaching material should be tested from MERI Nashik.
					9. There is considerable leaching from the seepage water and deposition of lime near the seepage exit spots (A12)	Necessary remedial measurs should be carried out.
					10. There is Evidence of Surface Defects (B3)	Necessary remedial measurs should be carried out.
					11. There is Concrete/ Masonary Deterioration (B3)	Necessary remedial measurs should be carried out.
				U/S Face	12. The u/s face of dam is in good condition. But damages at some spots.(B8)	.
				Instrumentation	13. Instruments are accessible. Presently there is no ligthing arreangment. The Instruments are not working order. (B9)	Necessary repairs should be carried consultation with IRD, Nashik.

(c)	**Executive Engineer, Dhom Canals Satara**					
62	Name :Uttarmand Tal. Patan Dist. Satara Year of completion: **June-2010.** Location : Longitude **74^{0}00'28"**(E) Latitude **17^{0}24'24"(N)** Height :**44.45 m** Gross Capacity **24.925 Mm^3** Sr.No.In Large Dam Register 2010: **MH09HH1591**	13.05.2021 21.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	Stilling Basin Equipments Gates	1. Concrete Surface of stilling Basin and apron not in good condition (A14) 2. Erosion, pitting or spelling of the concrete or masonary surface(A17) 3. Deterioration of equipment (B11) 4. The surface of gates and paints are deteriorated. (B11)	Necessary remedial measurs should be carried out. Necessary remedial measurs should be carried out. Necessary remedial measurs should be carried out. Necessary remedial measurs should be carried out. .
63	Name :**Hateghar** Tal. Jawali Dist. Satara Year of completion : Location : Longitude **73^{0}49'00"** Latitude **17^{0}52'00"** Height :**38.55 m** Gross Capacity **7.371 Mm^3** Sr.No.In Large Dam Register 2009: **MH09HH1591**	28.04.2021 08.11.2021	Shri. J.S.Shinde, SE, SIPC, Satara	U/S Slope	1 Section of dam and Upstream slope not appear structurally sound and stable (B3)	Necessary remedial measurs should be carried out in consultation with CDO Nashik.
(3)Superintending Engineer & Administrator, C.A.D.A. Solapur						
(a)Executive Engineer, Ujjani Dam Management Division, Bhimanagar,Solapur						
64	Name **: Bhima Ujani** (Gated) Tal. MadhaDist Solapur Year of completion : **1980** Location : Longitude **75^{0}7'15''** Latitude **18^{0}04'24'** Height :**56.40 m** Gross Capacity :**332.00 Mm^3**	06.05.2021	Shri. D.B. Sale SE & Adm. CADA, Solapur.	Gallery Body wall	1. In gallery safety issues arrangement (inadequate handrails, nosing to steps is necessary.) (A8) 2. Porous pipes need cleaning (A9) 3. Presence of leaks,Springs,or	Gallery should be cleaned and proper safety rrabgements should be made Porous pipes need should be cleaned. Necessary remedial measurs should

	Sr.No.In Large Dam Register 2009:**MH09HH0843**				Wet Spots in Vicinity of abutement-Wet Patches are Seen (A11)	be carried out.
				Body wall	4. There is considerable leaching at some places, particularly NOF and O.F. joints (A12)	Leached material to be collected & recorded of quantity & wait to be maintained. Leaching material should be tested from MERI Nashik.
				Stilling Basin	5. Flow Condition in the Stilling Basin (or bucket) have a Tendency to to draw material into the bucket and cause its churning and abrasion damage to Surface of buckets baffale blocks, ,apron and end sills.(A14)	Necessary remedial measurs should be carried out in consultation with CDO Nashik.
				EDA	6. There is retrospective erosion on d/s of tail pond weir on d/s of EDA. It needs attention (A17)	Proper remedial measure be taken and scouring be monitored &prevented further scouring.
				U/S Slope	7. Concavity seen on U/S between Ch.2015 to 2040 m. is since last 20 years. However there is no increase in its concavity thereafter. (B3)	Necessary remedial measurs should be carried out.
				Spillway	8. Ogee crest shows undulations, deterioration at many places.(B7)	Necessary remedial measurs should be carried out.
				Instrumentation.	9. some Instruments are not installed & Some not working as per Annexure-I (B9)	Necessary repairs should be carried consultation with IRD, Nashik.
				River sluice	10. River sluice conduits need attention. (B10)	It should be kept under observation.

(3)Superintending Engineer Osmanabad Irrigation Circle, Osmanabad						
(a)Executive Engineer, SinaKolegaonProject Division, Paranda Dist. Osmanabad						
65	Name **:**SinaKolegaon Tal.ParandaDist Osmanabad Year of completion : **2007** Location : Longitude **75^{0}23'55'** Latitude **18^{0}18'59'** Height : 26.10 **m** Gross Capacity : 150.49 **Mm^3** Sr.No.In Large Dam Register 2009:**MH09HH1673**	03.05.2021 21.11.2021	Shri.**B.R. Shingade** SE OIC Osmanabad	D/S Face Gallery Stilling basin General D/S Drainage Body Wall	1. There is slushy condition or water logging immediately downstream of dam (A2) 2. Drainage Gallery is not accessible , In gallery safety issues arrangement not provided (inadequate handrails, lighting or ventilation) (A8) 3. There is Significant or excessive leakage at along gallery/shaft / porous (A10) 4. The under drainage of the stilling basin (or bucket) not satisfactory The open drain holes are not clear and functioning well (A14) 5. Generated Battery Need to be Provided (A19) 6. There is the portions of longitudinal toe drain and exposed cross drains beyond the downstream toe of the dam is not in regular section and freely draining (B2) 7. At the Junction of Masonary and earthen dam ch2253.8 to 2380m shows sign of excessive and uneven settlement (B3)	Necessary remedial measurs should be carried out. Draibage gallery should be cleaned and proper safety rrabgements should be made. It should be kept under observation and Necessary repairs should be carried out by permission of competent field authority. Necessary remedial measurs should be carried out in consultation with CDO Nashik. It should be repaired properly Drains should be cleaned. Drain section should be restored as per design. Dam section should be restored to design section.

				NOF	8. Earthen portion near masonry dam have been settled to tune of 90 Cm. in depth for 55 Mtr in length (B3)	Dam section should be restored to design section.
				Junction	9. Gap along the Joint (B3)	Necessary repairs should be done
					10. At Very Places need repair pointing (B8)	Necessary repairs should be done
				Body Wall	11. Small seepage found through the body of the dam **(B8)**	Necessary repairs should be done
				Instrumentation	12. Instruments are not installed in dam (B9)	Instruments should be installed in consultation with IRD, Nashik.

Table 3.12

Class-I Dams with Category-3 Deficiency

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
[A]Chief Engineer(W.R.)Water Resources Department Pune											
(1)Superintending Engineer, Pune Irrigation Circle, Pune											
(a)Executive Engineer , Pune Irrigation division, Pune											
1	Jadhavwadi Tal.Haveli Dist. Pune	2001	73°43'0 18°47'00"	35.52	1.203	664.14	**MH09HH 1587**	Ungated	11.05.2021 07.12.2021	3.1,3.6,3.9,,3.16,3.20,3.23,3.24,3.26,3.27,3.34	10
2	Nira devghar Tal.Maval Dist. Pune	2008	73°43'00" 18°06'00"	65.69	337.39	1398	**MH09HH 1554**	Gated	24.11.2021 30.04.2021 17.03.2022	3.1,3.3,3.5,3.6,3.9,3.11, 3.12,3.16,3.18,3.19, 3.20,3.21,3.24,3.25,3.26, 3.28,3.29,3.30,3.31,3.33, 3.34,3.35,3.36	14
3	Bhatghar Tal. BhorDist.Pune	1928	$73^0$52' 00 $18^0$10' 30	57.92	672.65	1600	**MH09HH** 0048	Gated	30.04.2021 24.11.2021	3.1,3.2,3.6,3.12,3.13,3.16 ,3.19,3.20,3.23,3.24,3.25 3.28,3.29,3.31,3.34,3.35	16
4	Vadivale Tal. MavalDist.Pune	1999	$73^0$31'16" $18^0$49'20"N	29.00	40.87	746.82	**MH09MH** 1517	Gated	05.05.2021 30.11.2021	3.1,3.6,3.7,3.9,3.11,3.13, 3.16,3.19,3.20,3.21,3.24, 3.25,3.28,3.29,3.31,3.32, 3.33,3.34,3.35	19
5	Andravalley Tal.Maval Dist.Pune	2003	$73^0$39'00" $18^0$20'00"	34.50	83.31	3021.00	**MH09HH 1622**	Ungated	05.05.2021 30.11.2021	3.6,3.13,3.16,3.18,3.19 ,3.20,3.21,3.22,3.23,3.24, 3.25,3.27,3.28,3.29,3.30, 3.31	16
6	Kasarsai Tal. Mulashi Dist.Pune	2003	$73^0$40'00" $18^0$35'30"	29.20	17.38	933.00	**MH09MH 1373**	Gated	05.05.2021 30.11.2021	3.1,3.6,3.7,3.9,3.11,3.13, 3.16,3.20,3.21,3.22,3.24, 3.26,3.28,3.29,3.30,3.31, 3.33,3.35	18
(b)Executive Engineer ,Chaskaman Irrigation Division, Pune											
7	Aralakalmodi Tal.Khed Dist.	2010	73°40'30" 19°00'00"	40.61	42.87	963.21	**MH09HH 1672**	Ungated	15.5.2021 07.12.2021	3.1, 3.13, 3.16, 3.20, 3.21,3.23, 3.24,	15

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
	Pune									3.25,3.28,3.29, 3.30,3.31, 3.34, 3.35,3.36.	
8	BhamaAskhed Tal. Khed Dist. Pune	2014	73°43'00" 18°15'00"	51.125	230.47	1118	**MH09HH 1559**	Ungated	15.05.2021 07.12.2021 18.03.2022	3.1, 3.2,3.3, 3.6, 3.9, 3.11,3.17, 3.18,3.20,3.21, 3.23, 3.24, 3.25, 3.28,3.29, 3.30, 3.31,3.32,3.33, 3.34, .	20
9	Chaskaman Tal. Khed Dist.Pune	1999	73°47'15" 18°15'40"	46.28	241.69	2860	**MH09HH 1522**	Gated	11.05.2021 07.12.2021	3.1, 3.3, 3.9,3.10,, 3.16,, 3.19, 3.20, 3.21,3.23, , 3.24, 3.28,3.29,3.30, 3.31, 3.34,3.36	16
(d)Executive Engineer , Lift Irrigation Management Division, Pune											
10	Nazare Tal.Sasvad Dist. Pune	1974	74°12'50" 18°17'30"	22.545	223.20	980	**MH09MH 0453**	Gated	15.05.2021 05.12.2021	3.1, 3.2, 3.6, 3.7, 3.9, 3.19, 3.20, 3.22, 3.23, 3.24, 3.25, 3.29, 3.31, 3.33,	14
(e) Executive Engineer ,Khadakwasala Irrigation Division, Pune 11											
11	Panshet Tal. Velhe Dist.Pune	1968	$73^0$37' $18^0$22'	63.56	310.61	1162.0	**MH09HH 0310**	Gated	04.05.2021 23.11.2021	3.1,3.5,3.16.3.19,3.25, 3.30	6
12	Khadakvasala Tal. Haveli Dist.Pune	1879	$73^0$46' $18^0$28'	32.92	86	2755	**MH09HH 0013**	Gated	04.05.2021 23.11.2021	3.1, 3.5, 3.6, 3.13,3.19, 3.20,3.22, 3.24, 3.25,3.28,3.29, 3.30,3.31 3.33, 3.35.	15
13	Warasgaon Tal. Velhe Dist.Pune	1992	$73^0$37' $18^0$23'	66.60	375.36	1416	**MH09HH 0592**	Gated	04.05.2021 23.11.2021	3.1, 3.6, 3.7, 3.9, 3.16, 3.18,3.19, 3.20, 3.21, 3.25, 3.26, 3.28, 3.31, 3.32, 3.34,	15
14	Pawana Tal. Maval Dist.Pune	1972	$73^0$40'30" $18^0$21'30"	42.37	305.28	1250	**MH09HH** 0311	Gated	05.05.2021 30.11.2021	3.1,3.2,3.5,3.6,3.7,3.9,3.15, 3.16,3.19,3.20,3.21,3.24, 3.26,3.27,3.28,3.30,3.31, 3.32,3.34,3.35	20
(f)Executive Engineer, Nira Right Bank Canal Division, Phaltan ,Dist. Satara											

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
15	Veer Tal.Purandar Dist.Pune	1965	74^0 5'55 $18^0$07'05"	34.66	278.49	5154	**MH09HH 0116**	Gated	28.05.2021 24.11.2021	3.1, 3.2, 3.5, 3.6, 3.9,3.11,3.16, 3.19, 3.20, 3.21,3.24, 3.25, 3.27, 3.28, 3.29,3.31. 3.34	17
(2)Superintending Engineer, Pune Irrigation Project Circle, Pune											
(a) Executive Engineer, BhamaAskhed dam division, pune											
16	Temghar Tal. Mulashi Dist.Pune	2000	73^0 32' 18^0 27'	86.67	107.96	626	**MH09HH 1544**	Ungated	19.11.2021	3.1,3.6,3.20,3.22,3.24, 3.29,3.30,3.31,3.34,3.36	10
(c)Executive Engineer, Niradevghar Project Division, Sangavi(Bhatghar),Tal.Bhor,Dist.Pune											
17	Gunjavani Tal.Velhe Dist. Pune	2001	73°38'27" 18°18'30"	52.82	104.69	1280.03	**MH09HH 1552**	Gated	18.11.2021	3.1, 3.5,3.9, 3.13, 3.24,3.25, 3.29,3.30,3.31	9010
(3)Superintending Engineer Sangli Irrigation circle, Sangli											
(a)Executive Engineer ,Sangli Irrigation Division, Sangli											
18	Morna (Shirala) Tal Shirala Dist. Sagli	1984	74°06'30" 16°59'20"	38.10	21.18	1075	**MH09HH 1101**	Ungated	25.05.2021 10.12.2021	3.1,3.6,3.7,3.13,3.24, 3.26,3.27,3.28,3.30,3.31	10
(b)Executive Engineer ,Tembhu Lift Irrigation Project Managementb Division, Ogalewadi											
19	Yevati masoli Tal Karad Dist. Satara	1989	74°11'00" 17°00'00"	36.00	7.30	330	**MH09HH 1218**	Ungated	27.05.2021 12.10.2021	3.1,3.6,3.9,3.13,3.20 ,3.24,3.25,3.26,3.27,3.28, 3.31	11
(c)Executive Engineer ,Takari Pump House Division No.1, Devrashtre											
20	**Satpewadi barrage** Tal Walwa Dist. Sangli	2005	74°21'26" 18°06'51"	37.50	3.886	554.80	**Proposed for updating in NRLD 2018**	Gated	24.07.2021 12.10.2021	3.1,3.2,3.6,3.11,3.15,3.20 ,3.29, 3.30,	8

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
(4)Superintending Engineer Kolhapur Irrigation Circle,Kolhapur											
(a)Executive Engineer , Kolhapur Irrigation Division (South), Kolhapur											
21	Ghatprabha(Phatakwadi) Tal.Chandgad Dist.Kolhapur	2009	74°04'20" 15°56'45"	48.30	43.75	1452	**MH09HH 1900**	Ungated	07.05.2021 30.11.2021	3.1,3.2, 3.6, 3.13,3.16,3.18,3.20,3.22, 3.24,3.26,3.29,3.30,3.31, 3.35	14
22	Jambre Tal.Chandgad Dist..Kolhapur	2013	74°06'40" 15°52'47"	38.065	23.23	530.90	**MH09HH. 1925**	Ungated	08.05.20200 4.12.2020	3.1,3.2, 3.5,3.6,3.9, 3.13,3.16,3.19, 3.20,3.24,3.26,3.29, 3.30,3.31,3.32,3.33	15
b)Executive Engineer , Medium Project Division No.2 Kolhapur											
23	Chikotra Tal.Ajara Dist..Kolhapur	2008	74°12'23" 16°13'30"	60.78	43.11	393	**MH09HH 1582**	Gated	23.04.2021 19.10.2021	3.1,3.11,3.13,3.18,3.20, 3.21, 3.23,3.24,3.29 3.30,3.31	11
24	Jangamhatti Tal.Chandgad Dist..Kolhapur	2005	74°18'00" 15°51'30"	31.40	34.21	567	**MH09MH. 1366**	Ungated	15.05.2021 21.11.2021	3.1,3.2,3.5,3.6,3.9,3.10, 3.13,3.16,3.20,3.24, 3.26, 3.29,3.30,3.31,3.32,3.34	16
25	Keloshi Bk. Tal.Radhanagari Dist..Kolhapur	2010	73°49'53" 16°31'30"	38.60	5.603	228.42	**MH09HH. 1935**	Ungated	19.04.2021 09.11.2021	3.2,3.6,3.9,3.13,3.20 3.23, 3.24,3.26, 3.30	9
3.13,(b)Executive Engineer, Kolhapur Irrigation Dn.(North) Kolhapur											
26	Kadavi Tal.Shahuwadi Dist..Kolhapur	2000	73°52'30" 17°00'05"	35.25	71.24	506.87	**MH09HH 1541**	Ungated	28.04.20212 4.11.2021	3.1,3.2,3.5,3.6,3.7,3.9, 3.13,3.19,3.20,3.21,3.23, 3.26,3.27,3.30,3.31,3.32, 3.33,3.34	18
27	Kasari Tal ShahuwadiDist. Kolhapur	1989	73°47'41" 16°51'42"	85.30	78.565	860	**MH09HH 1245**	Ungated	24.04.20212 8.04.2021	3.6,3.7,3.11,3.13,3.20 ,3.21,3.24,3.25,3.26,3.30, 3.31,3.34,3.35	13
28	Kumbhi Tal.Gaganbavada Dist..Kolhapur	2007	73°51'49" 16°31'29"	42.58	76.88	416.10	**MH09HH 1671**	Gated	12.05.20212 4.10.2021	3.1,3.6,3.9,3.11,3.13,3.16 ,3.18,,3.19,,3.20,3.21,	20

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
										3.22,3.23,3.24,3.25,3.26, 3.29,3.30,3.31,3.34,3.35	
29	Paleshwar Tal ShahuwadiDist.. Kolhapur	2011	73°52'30" 17°00 15"	42.15	9.11	635	**MH09HH 1546**	Ungated	26.04.202124 .11.2021	3.6,3.7,3.9,3.18,3.19,3.20 ,3.21,3.24,3.26,3.27,3.29, 3.30,3.31,3.32,	14
30	Tulashi Tal:Radhanagari. Dist.Kolhapur	1978	74°31'00" 16°31'15"	48.6	98.29	640	**MH09HH 0726**	Ungated	19.04.20210 9.11.2021	3.1,3.5,3.6,3.9,3.13,3.16,. 3.18,3.19,3.20,3.21,3.22, 3.26,3.27,3.28,3.29,3.31, 3.35	17
31	Upwade Tal.KarveerDist ..Kolhapur	1996	74°05'00 16°40'00"	32.81	2.71	71	**MH09HH 1385**	Ungated	05.05.2021 24.10.2021	3.1,3.6,3.7,3.9,3.13,3.16, 3.18,3.19,3.20,3.21,3.24, 3.26,3.27,3.28,3.30,	15
32	Radhanagari Tal.Radhanaga ri Dist.Kolhapur	1954	$73^0$57'40" $16^0$20'20"	42.83	936.56	283	**MH09HH 0067**	Gated	**19.04.2021** 09.11.2021	3.1,3.11,3.16,3.18,3.19, 3.20,3.21,3.22,3.28,3.31, 3.32,3.33	12
33	Warana Tal. Shirala Dist. Sangli	1989	$73^0$05'50 $17^0$08'10"	77.00	974.18	974.18	**MH09HH 1542**	Gated	22.04.2021 02.11.2021	3.2,3.5,3.6,3.9,3.13,3.16, 3.18,3.19,3.20,3.21,3.22, 3.25,3.28,3.30,3.31,3.32, 3.33,3.34,3.35,3.36	20
34	DudhagangaTa l.Radhanagari Dist. Kolhapur	1987	74^0 1' 0" 16^0 21' 0"	85.30	719.12	1940	**MH09HH 1226**	Gated	19.04.2021 09.11.2021	3.1,3.6,3.18,3.19,3.20, 3.21,3.22,3.25,3.26,3.28, 3.29,3.31,3.35	13
(c)Executive Engineer, Kolhapur Irrigation Dn.(South) Kolhapur											
35	Patgaon Tal. Bhudargad Dist..Kolhapur	2007	73°56'15" 16°7'9"	37.90	105.242	499	**MH09HH 1242**	Ungated	23.04.2021 19.10.2021	3.1, 3.3,3.6,3.7,3.9,3.13,3.18, 3.19,3.20,3.21,3.23,3.24, 3.26,3.30,3.31,3.35	16
36	Ambewadi Tal.Chargadist. .Kolhapur	2013	74°33'45" 15°52'49"	33.05	7.11	170.62	**MH09HH . 1889**	Ungated	15.05.2021 21.11.2021	3.1,3.9,3.13,3.16,3.20, 3.21,3.23,3.24,3.26,3.27, 3.30,3.31,3.33	13

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
37	Chitri Tal.Ajara Dist..Kolhapur	2004	74°09'30" 16°04'15"	55.11	53.41	571	**MH09HH 1586**	Ungated	26.04.2021 19.05.2021	3.1,3.7,3.9,3.11,3.13,3.19 3.20,3.21,3.24, 3.26, 3.30,3.31,3.32	13
38	Kitwad-2 Tal. Chargad Dist..Kolhapur	2009	75°25'15" 15°45'30"	36.72	5.92	674.34	**- MH09HH 1902**	Ungated	13.05.2021 21.11.2021	3.1,3.9,3.13,3.16,3.20, 3.21,3.26,3.27,3.30,3.31, 3.32,3.33	12
39	Kondoshi Tal. Bhudargad Dist..Kolhapur	2000	74°09'00" 16°04'15"	30.27	2.76	133.35	**MH09HH 1533**	Ungated	22.04.2021 19.10.2021	3.1,3.6,3.9,3.13,3.24,3.26 ,3.30,3.31	8
40	Lakikatti Tal. Chandgad Dist..Kolhapur	2000	74°20'00" 15°55'30"	36.34	9.239	231	**MH09HH 1538**	Ungated	15.05.2021 21.11.2021	3.1,3.6,3.9,3.13,3.16,3.20 ,3.21,3.23,3.24,3.26,3.27, 3.29,3.30,3.31,3.33,3.34	16
41	Megholi Tal. Bhudergad Dist. Kolhapur	2000	$74^0$07'00 $16^0$11'03"	34.12	3.932	238.35	**MH09HH 1536**	Ungated	19.05.2020	3.1,3.9,3.13,3.20,,3.24, 3.26,3.30,3.31	8
42	Phaye Tal.Bhudargad Dist..Kolhapur	2004	74°04'15" 16°07'04"	34.12	3.932	190.40	**MH09HH 1629**	Ungated	23.04.2021 19.10.2021	3.1,3.9,3.13,3.20,3.24, 3.26,3.30, 3.31	8
(5)Superintending Engineer Satara Irrigation Circle, Satara											
(a)Executive Engineer, Koyna Irrigation Division Koynanagar											
43	Koyna Tal.Patan Dist. Satara	1967	70°44'28'' 17°23'00''	103.02	2980.68	5465.8	**MH09VH 0100**	Gated	08.05.2021 20.11.2021 21.11.2020	3.1,3.6,3.10,3.12,3.16, 3.18,3.19,3.20,3.21,3.23, 3.24,3.25,3.28,3.29,3.30, 3.32,3.33,3.35	18
44	Kolkewadi Tal. Chiplun Dist. Ratnagiri	1975	$73^0$38'50' 17^0 28'	66.30	36.22	1081	**MH09HH 0527**	Gated	08.05.2021 20.11.2021	3.18, 3.20, 3.21,3.24,3.26,3.27,3.29	7
(b)Executive Engineer, Satara Irrigation Division Satara											
45	Dhom Tal. Wai Dist. Satara	1976	$73^0$49'04" $17^0$58' 39"	62.18	382.32	1778.29	**MH09HH 0655**	Gated	15.5.2020 18.12.2020	3.1,3.2,3.6,3.9,3.11,3.13, 3.16,3.19,3.20,3.24,3.26, 3.27,3.28,3.29,3.30,3.31,	17

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
										3.34	
46	Dhombalkawadi Tal. Wai Dist. Satara	2006	73°42'30" 17°51'00"	65.10`	115.53	1576	**MH09HH 1665**	Ungated	01.06.2021 20.12.2021 17.03.2022	3.1, 3.2,3.3,3.6, 3.9, 3.10,3.11,3.12,3.13, 3.18,3.20,3.21,3.24,3.25, 3.26,3.27, 3.28, 3.29,3.30,3.31, 3.33,3.34, 3.35.3.36	24
(c)Executive Engineer, Krishna Irrigation Division, Satara											
47	Urmodi Tal.Parali& Dist. Satara	2012	73°54'40" 17°40'00"	51.10	282.14	2407	**MH09HH 1594**	Gated	18.05.2021 02.12.2021	3.1, 3.6,3.9, 3.11, 3.13, 3.18, 3.19, 3.20, 3.21, 3.23, 3.24, 3.26, 3.33, 3.34, 3.36.	15
48	Kanher Tal. Satara Dist. Satara	1988	$73^0$55' $17^0$48'	50.34	286	3203	**MH09HH 1141**	Gated	28.05.2021 02.12.2021 17.03.2022	3.1,3.2,3.5, 3.6, 3.9,3.11,3.12, 3.13,3.18,3.19,3.20, 3.24, 3.25, 3.26,3.27, 3.28,3.29,3.30, 3.31, 3.33, 3.34,3.35,3.36	23
[2]Chief Engineer(S.P.) Water Resources Department Pune											
(1)Superintending Engineer Kukadi Irrigation Circle Pune											
(a) Executive Engineer, Kukadi Irrigation Div. 1 Narayangaon											
49	Wadaj Tal.Junnar Dist. Pune	1983	73°52'30" 19°09'00"	28.00	35.90	1426	**MH09HH 1006**	Gated	05.06.2021 11.11.2021 18.03.2022	3.1,3.2,3.3,3.5, 3.6,3.9,3.11,3.13,3.18,, 3.19,3.20, 3.23, 3.24, 3.25, 3.26,3.28, 3.29,3.30,3.31,3.32,3.34	21
50	Yedgaon Tal.Junnar Dist. Pune	1977	74°01'30" 19°10'30"	23..60	69.204	3844	**MH09MH 0658**	Gated	05.06.2021 11.12.2021	3.1, 3.5, 3.6, 3.7, 3.9, 3.13, 3.20, 3.23,3.24, 3.25,3.28,3.31,	12
51	Manikdoh	1984	$73^0$49'00	53.00	308.06	143	**MH09HH**	Gated	13.05.2021	3.1,3.2,3.6,3.11,3.13,3.18	18

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
	Tal. Junnar Dist. Pune		19^0 14'00				**1060**		11.12.2021	,3.20,3.21,3.22,3.23.3.24, 3.25,3.28,3.31, 3.33,3.34,3.35,3.36	
52	Pimpalgaon joge Tal. Junnar Dist. Pune	2000	$73^0$52'30" $19^0$18'45"	28.97	235.28	1167.3	**MH09MH 1520**	Gated	12.06.2021 12.11.2021	3.1,3.2,3.4,3.5,3.6, 3.7, 3.9, 3.11, 3.13, 3.18, 3.19,3.20, 3.21, 3.23, 3.24, 3.25, 3.26, 3.31, 3.32,3.33,3.34	21
53	Dimbhe Tal. Ambagaon Dist. Pune	2001	$73^0$44'30" $19^0$5'45"	72.10	382.22	2870	**MH09HH 1558**	Gated	15.5.2021 11.11.2021	3.1, 3.6,3.13,.3.18, 3.20, 3.23, 3.24,3.25,3.29,3.30, 3.31, 3.34.,3.35	13
(b)Executive Engineer, Kukadi Irrigation Div.2 Shrigonda											
54	Ghod Tal. Shirur Dist. Pune	1965	$74^0$51'50 17^0 8'10"	34.75	216.30	7465	**MH09MH 0117**	Gated	05.05.2021 10.12.2021	3.1, 3.2, 3.5,3.6, 3.9, 3.10, 3.15, 3.16, 3.19, 3.20, 3.21, 3.23, 3.24, 3.26, 3.27,3.28, 3.29, 3.30, 3.31, 3.34,3.35.	21
b) Executive Engineer ,Kukadi Irrigation Division No. 2, Shrigonda											
55	**Sina** Tal. Karjat, Dist A. Nagar	1985	74°57'00" 18°49'00"	28.5	67.95	4450	MH09MH 1142		08.06.2021 19.11.2021	3.1, 3.5, 3.6, 3.7, 3.9, 3.16, 3.19, 3.20, 3.21, 3.22, 3.23, 3.24, 3.25, 3.26, 3.27, 3.28, 3.29, 3.31,3.32,3.33,3.35.	21
(c) Executive Engineer, Dimbhe Dam Div. Manchar											
56	Chilewadi Tal. Junnar Dist. Pune	2000	$73^0$50'00" $19^0$21'00"	62.56	27.17	1686	**MH09HH 1553**	Gated	21.05.2021 03.11.2021	3.1, , 3.5,3.6, 3.9,3.11, 3.18, 3.20, 3.21, 3.22, 3.24,3.25, 3.26,3.27, 3.28, 3.29, 3.31, 3.32,3.33,3.34	19
(2)Superintending Engineer Satara Irrigation Project Circle, Satara											
(a)Executive Engineer , Minor Irrigation Division, Satara											
57	Uttarmand Tal.Patan Dist. Satara	2001	74°28'00" 17°24'24"	44.45	24.925	1223	**MH09HH 1591**	Ungated	12.4.2020 2.12.2020	3.1,3.2,3.6,3.9,3.18,3.20, 3.21,3.24,3.26,3.29,3.30, 3.31	12

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
58	Morna(Guregh ar) Tal.PatanDist. Satara	2013	73°50'00" 17°17'30"	47.02	36.99	2247	**MH09HH 1664**	Ungated	13.05.2021 09.11.2021	3.1,3.2,3.3,3.4,3.6,3.9, 3.13, 3.19,3.20,3.21,3.233.24,3 .25, 3.26,3.28,3.29 ,3.31	17
59	Nagewadi Tal. Wai Dist. Satara	1999	$73^0$51'45" $17^0$55'17"	40.02	6.47	326	**MH09HH 1518**	Gated	04.05.2021 14.11.2021	3.1,3.3,3.13,3.20,3.21, 3.22,3.24,3.26,3.29,3.30, 3.32,3.33,3.34	13
(b)Executive Engineer ,Kanher Canal Division No.2, Karwadi,Karad.											
60	Tarali Tal. Patan Dist. Satara	2007	$73^0$54'15" $17^0$32'00"	73.41	165.70	1721	**MH09HH 1666**	Gated	06.05.2021 21.05.2021	3.9,3.10,3.13,3.19,3.20, 3.21,3.22,3.24,3.28,3.30, 3.31,3.34,3.36	13
(b)Executive Engineer, Dhom Canals Division No.2,Satara											
61	Mahu Tal Jawali Dist. Satara	2001	73°48'30" 17°52'30"	54.35	31.052	705	**MH09HH 1588**	Gated	28.04.2021 08.11.2021	3.13,3.20,3.24,3.26,3.34	5
62	Hatgeghar Tal Jawali Dist. Satara	Gorge in 2001, Dam under construction	75°49'00" 17°52'30"	38.55	77.371	150	**MH09HH 1568**	Ungated	20.4.2021 08.11.2021	3.5,3.20,3.21,3.24,3.26 ,3.30,3.31,3.34	8
c)Executive Engineer, Minor Irrigation Division ,Satara											
63	**Kalgaon** Tal. Patan Dist. Satara	Work in progress	73°56'45" 17°09'03"	33.50	2.692	199.64	**MH09HH 2416**	Ungated	29.04.2021 09.11.2021	3.1,3.6,3.9,3.13,3.16,3.18 ,3.24,3.26,3.27,3.29,3.30, .3.32,3.36	13
64	**Kusawade** Tal Satara Dist. Satara	2010	73°51'47" 17°34'46''	30.90	3.495	155.02	**MH09HH 2411**	Ungated	27.04.2021 21.11.2021	3.1,3.3,3.6,3.9,3.10,3.18, 3.20,3.21,3.24,3.26,3.30, 3.34	12

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
D)Executive Engineer, Uramodi Dam Division ,Satara											
65	**Pangare** Tal. Satara Dist. Satara	2000	73°52'30" 37°09'01''	32.10	2.72	255.65	**NA**	Ungated	29.05.2021 23.11.2021	3.5,3.22,3.26,3.30,3.33	5
(3)Superintending Engineer & Administrator, C.A.D.A. Solapur											
(a) Executive Engineer, Solapur Irrigation Division Solapur											
66	Bori Tal. Akkalkot Dist.Solapur	2005	76°04'00" 17°37'00"	15.20	23.292	3653	**MH09MH. 1641**	Gated	31.05.2020	3.6,3.13,3.16,3.20,3.21,3.24,3.26,3.27,3.28,3.30,3.31,3.33	12
67	Ekrukh Tal & Dist.-Solapur	1871	75°54'30" 17°43'30"	21.45	61.160	1381	**MH09MH 0007**	Ungated	12.05.2020	3.1,3.2,3.4,3.5,3.6,3.9, 3.10,3.13,3.16,3.26,3.27, 3.30	12
(b)Executive Engineer, Ujjani Dam Management Division Bhimanagar Dist. Solapur											
68	Ujjani Tal. Madha Dist Solapur	1980	$73^0$7'18'' $14^0$08'00'	56.40	332	180.10	**MH09HH 0843**	Gated	11.05.2020	3.1,3.5,3.6,3.7,3.9,3.10, 3.13,3.18,3.19,3.20,3.22, 3.28,3.31,3.35	14
(4)Superintending Engineer Osmanabad Irrigation Circle Osmanabad											
(a)Executive Engineer, SinakolegaonProjectDivisionParandaDist.Osmanabad											
69	Sinakolegaon Tal.Paranda Dist.Osmanabad	2007	75°23'55" 18°18'59"	36.60	19.19	3653	**MH09MH. 1673**	Gated	03.03.2021 21.11.2021	3.1,3.2,3.5,3.6,3.7,3.9 ,3.10,3.13,3.18,3.20,3.24, 3.26,3.27,3.28,3.29,3.30, 3.31,3.32,3.33,3.34,3.36	21

Table 3.13

Class-II Dams with Category-1 Deficiency

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Observation / Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
---------- No Such Dams under this category is reported ----------						

Table 3.14

Class-II Dams with Category-2 Deficiency

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
[A]Chief Engineer (W.R.) Water Resources Department, Pune						
(1)Superintending Engineer Pune Irrigation Circle, Pune						
(a)Executive Engineer, Pune Irrigation Division, Pune						
1	Name :**Marnewadi** Tal. Mulashi Dist. Pune Date of completion:-**1998** Location : Longitude - **73°40'00"** Latitude- **18°30'00"** Height :-**18.35 m.** Gross capacity :- **0.87 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1453**	4.5.2021 Not Received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet Outlet Gate	Strenghtening work is essential for outlet well.(A6) 2.The stem rod for lifting the gate is not perfectly straight.(B5)	Necessary repairs to be carried out Superimpose Necessary repairs should be carried out. Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
2	Name :**Mahakoshi** Tal.Mulashi Dist. Pune Date of completion:-**1998** Location: Longitude :-**73°50'00"** Latitude : -**18°05'00"** Height :-**24.00 m.** Gross capacity :- **2.28 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1474**	2.6.2021 Not Received	Shri. Rajendra Dhodapkar E.E PID. Pune	W.W.Bar Outlet	1. Spillway central portion 38.00mtr washed out. (B7) 2. .The stem rod for lifting the gate is not perfectly straight.(B5)	Necessary repairs should be carried out. Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
3.	Name : **Urawade** Tal.Mulashi Dist. Pune Date of completion:-**1983** Location: Longitude :-**74°56'00"** Latitude : -**18°30'00"** Height :-**23.48 m.** Gross capacity :- **2.00 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0964**	4.5.2021 Not Received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1. The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
4.	Name : **Rihe** Tal.Mulashi Dist. Pune Date of completion:-**1977** Location: Longitude :-**73°39'00"** Latitude : -**18°34'00"** Height :-**21.95 m.** Gross capacity :- **1.58 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0642**	29.4.2021 27/8/2021	Shri. Rajendra Dhodapkar E.E PID. Pune Test inspected by EE DSD 1 Nashik	Outlet Divide wall	1.The stem rod for lifting the gate is not perfectly straight.(B5) 2.Divide wall between embankment and overflow section shows leakages(A16) 3. Earthen section seems to be under section in certain portion.	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization Repairs of the same shall be done in consultation with CDO, Nashik with preapproval from competent field officials before taking the work in hand. Superimpose Existing Cross Section on Design Cross Section at

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					Undulations on dam top is observed.(B1) 4. Downstream nappe of WW bar is in damaged condition.Also leakages are observed from WW Bar.(B7)	every 30 m C/C to ascertain whether earthen embankment is under section or not. Communicate facts to DSO, Nashik. Repairs of the same shall be done in consultation with CDO, Nashik with preapproval from competent field officials before taking the work in hand.
5	Name : **Hadashi** Tal.Mulashi Dist. Pune Date of completion:-**1991** Location: Longitude :-**73°32'00"** Latitude : -**18°36'00"** Height :-**21.83 m.** Gross capacity :- **3.07 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1235**	29.4.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
6	Name : **Divale** Tal.Mulashi Dist. Pune Date of completion:-**1985** Location: Longitude :-**73°55'00"** Latitude : -**18°15'00"** Height :-**20.83 m.** Gross capacity :- **2.14 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1082**	2.6.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
7	Name : **Naigaon Deogaon** Tal.BhorDist. Pune Date of completion:-**1979** Location: Longitude :-**73°53'00"** Latitude : -**18°17'00"** Height :-**22.49 m.** Gross capacity :- **1.332 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0762**	2.6.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
8	Name : **Wagajwadi** Tal.Bhor Dist. Pune Date of completion:-**2001** Location: Longitude :-**73°50'00"** Latitude : -**18°15'00"** Height :-**20.57 m.** Gross capacity :- **1.66 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1235**	24.5.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
9	Name : **Bhongawali** Tal.Bhor i Dist. Pune Date of completion:-**2015** Location: Longitude :-**74°00'00"** Latitude : -**18°15'00"** Height :-**25.00 m.** Gross capacity :- **3.32 Mcum** Sr.No.In Large Dam Register 2012: **Proposed for NRLD**	2.6.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
10	Name : **Gadadavne** Tal.Mulashi Dist. Pune Date of completion:-**2007** Location: Longitude :-**73°32'00"** Latitude : -**18°36'00"** Height :-**21.83 m.** Gross capacity :- **3.07 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1235**	4.5.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet WW Bar	1.The stem rod for lifting the gate is not perfectly straight.(B5) 2.Spillway centre portion 38m is washed out. (B7)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
11	Name : **Hadashi-2** Tal.Mulashi Dist. Pune Date of completion:-**1999** Location: Longitude :-**73°52'00"** Latitude : -**18°36'00"** Height :-**20.45 m.** Gross capacity :- **1.14 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1674**	29.4.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
12	Name : **Khamboli** Tal.Mulashi Dist. Pune Date of completion:-**2000** Location: Longitude :-**73°35'00"** Latitude : -**18°35'00"** Height :-**25.36 m.** Gross capacity :- **2.065 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1535**	29.4.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
13	Name : **Pimpoli** Tal.Mulashi Dist. Pune Date of completion:-**1984** Location: Longitude :-**73°30'00"** Latitude : -**18°36'00"** Height :-**22.13 m.** Gross capacity :- **1.53 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1045**	29.4.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
14	Name : **Shere** Tal.Pune Dist. Pune Date of completion:-**1998** Location: Longitude :-**73°52'00"** Latitude : -**18°36'00"** Height :-**22.98 m.** Gross capacity :- **1.72 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1235**	29.4.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
15	Name : **Walen** Tal.Mulashi Dist. Pune Date of completion:-**1989** Location: Longitude :-**73°30'00"** Latitude : -**18°35'00"** Height :-**20.75 m.** Gross capacity :- **1.51 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1216**	29.4.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
16	Name : **Chinchwad** Tal.Pune Dist. Pune Date of completion:-**1984** Location: Longitude :-**73°40'00"** Latitude : -**18°36'00"** Height :-**21.83 m.** Gross capacity :- **3.07 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1235**	4.5.2021 Not received	Shri. Rajendra Dhodapkar E.E PID. Pune	Outlet	1.The stem rod for lifting the gate is not perfectly straight.(B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
(b)Executive Engineer Khadakwasala Irrigation Division, Pune11						
17	Name :**Bhugaon** Tal. Mulashi Dist. Pune Date of completion:-**1983** Longitude: -**73° 45'00"** Latitude:-**18°30'00"** Height :-**21.19** Gross capacity :-**1.90 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0963**	22.5.2021 5.12.2021	Shri. V.P.Patil E.E KID. Pune	Earthen Embankment	1. Sectioning of embankment is necessary(B1)	Necessary repairs should be carried out.
18	Name :**Matoba** Tal. Daund Dist. Pune Date of completion:-**1978** Longitude: -**74° 34'00"** Latitude:-**18°00'23"** Height :-**17.50** Gross capacity :-**45.2 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0721**	23.5.2021 28.11.2021	Shri. V.P.Patil E.E KID. Pune	E. E. WW Bar Tail channel	1. Standing pool of water observed on RHS of embankment at some places. (A2) 2. Stone of masonry spillway and supporting soil is washed out due to heavy rain. Foundation of spillway is now visible. Masonry spillway bar need strengthening urgently.(B7) 3. Huge scouring is observed on D/S of bar.(A7)	This area should be well drained so as to avoid any stagnant pools of water. Necessary repairs should be carried out Necessary repairs should be carried out

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
19	Name :**Malad** Tal. Daund Dist. Pune Date of completion:-**1979** Longitude: -**74° 34'00"** Latitude:-**18°23'00"** Height :-**15.63** Gross capacity :-**1.74 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0796**	23.5.2021 28.11.2021	Shri. V.P.Patil E.E KID. Pune	Outlet Tail Channel	1.Leakages through outlet well observed.(A6) 2. Outlet gate not in operation since 10 years. (B5)	Necessary repairs should be carried out. It should be repaired. Necessary repairs should be carried out
20	Name :**Palasdeo** Tal. Indapur Dist. Pune Date of completion:-**1953** Longitude: -**74° 34'00"** Latitude:-**18°23'00"** Height :-**18.23** Gross capacity :-**1.09 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0063**	23.5.2021 28.11.2021 Test Inspected by DSO 31.1.2022	Shri. V.P.Patil E.E KID. Pune Test Inspected by EE DSD1 nashik	W.W.Bar	1. W. W. Bar is damaged due to heavy rainfall@ 14.10 2020 (B7) 2. Scouring is observed on d/s side of bar.(A7) 3.Earthen section seems to be under section in certain portion.(B1)	Necessary repairs should be carried out. Necessary repairs should be carried out. Superimpose Existing Cross Section on Design Cross Section at every 30 m C/C to ascertain whether earthen embankment is under section or not. Communicate facts to DSO, Nashik.
21	Name :**Shirsuphal** Tal. Baramati Dist. Pune Date of completion:-**1879** Location: Longitude: -**74° 35'20"** Latitude:-**18°21'00"** Height :-**20.11** Gross capacity :-**10.1 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0011**	23.5.2021 28.11.2021 Test Inspected by DSO 31.1.2022	Shri. V.P.Patil E.E KID. Pune Test Inspected by EE DSD1 nashik	Earthen Embankment Downstream side	1. Crest profile is below by 1.15 m. than design crest and section is disturbed. (B1) 2.Ponding observed on immediate downstream side of Dam.(A2)	Necessary repairs are to be carried out to proper section after confirmation by competent field authority. Exact Source from which that particular water is coming, should be find out and do necessary action for the same.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(d) Executive Engineer, Nira Right Bank Canal Division, Phaltan						
22	Name : **Naigaon** Tal.Khandala Dist. Satara Date of completion: **1983** Location: Longitude**: 73° 58' 5"** Latitude: **18° 06' 10"** Height :**18.0 m.** Gross capacity :**1.34 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0986**	15.5.2021 Not received	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	W.W. Bar and tail channel	1. Waste weir bar is damaged condition. Heavy Leakage is observed through Waste weir bar. (B7)	Necessary repairs are to be carried out. Leakage record needs to verify before repair.
23	Name : **Mhasavad** Tal.Man Dist. Satara Date of completion: **1876** Location: Longitude**: 74° 53' 00"** Latitude: **17° 35' 00"** Height :**24.00m.** Gross capacity :**46.13Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0017**	17.5.2021 Not received	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	EE	1.Cracks are observed in longitudinal direction. (B4)	Necessary repairs are to be carried out.
24	Name : **Banganga** Tal.Phaltan Dist. Satara Date of completion: **1975** Location: Longitude**: 74° 25' 5"** Latitude: **17° 40' 00"** Height :**16.76m.** Gross capacity :**6.50 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0071**	23.5.2021 23.10.2021	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	Downstream E E	1. Wet patches are seen at downstream portion between LBC and RBC (A2) 2. Edges of crest are cut up resulting reduction in width of dam top(B1)	Necessary repairs are to be carried out to proper section after confirmation by competent field authority. Necessary repairs should be carried out

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
25	Name : **Girzani** Tal.Malshiras Dist. Satara Date of completion: **1989** Location: Longitude**: 74° 59' 00"** Latitude: **17° 52' 00"** Height :**17.98m.** Gross capacity :**2.07 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1223**	23.5.2021 Not received	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	Relief wells	1.Relief wells are not working condition. (A5)	Necessary repairs should be carried out
26	Name : **Hingangaon** Tal.Khatav Dist. Satara Date of completion: **1975** Location: Longitude**: 74° 58' 05"** Latitude: **17° 06' 10"** Height :**17.53m.** Gross capacity :**1.47 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0473**	22.5.2021 4.11.2021	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	D/s	1.Sign of water logging, slushy conditions and growth of acquatic weeds on d/s of dam observed.(A2)	Necessary repairs should be carried out
27	Name : **Tambave** Tal.Phaltan Dist. Satara Date of completion: **1966** Location: Longitude**: 74° 10' 00"** Latitude: **18° 00' 00"** Height :**16.80m.** Gross capacity :**5.42 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0167**	22.5.2021 4.11.2021	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan	D/S	1.Sign of water logging, slushy conditions and growth of acquatic weeds on d/s of dam observed.(A2)	Necessary repairs should be carried out

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
28	Name : **Phondshiras** Tal.Malshiras Dist. Satara Date of completion: **1966** Location: Longitude**: 74° 49' 00"** Latitude: **18° 08' 00"** Height :**16.68m.** Gross capacity :**2.92 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1277**	25.5.2021 Test inspected by DSO 30.1.2022	Shri. S.R. Bodke E.E. N.R.B.C. Division Phaltan Test Inspected by EE DSD1 Nashik	D/S	1.Stagnant Water (Ponding of Water) is observed on immediate d/s side of dam. (A2)	Source of stagnant water shall be traced out by draining the same and facts regarding the same should be communicated to DSO.
(e) **Executive Engineer, Lift Irrigation Management Division , Pune**						
29	Name : **Pilanwadi** Tal.Purander Dist. Pune Date of completion: **1978** Location: Longitude**: 73° 52' 00"** Latitude: **18° 36' 00"** Height :**22.77 m.** Gross capacity :**1.94 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0729**	27.5.2021 16.11.2021	Shri. M. B. Kanitkar, EE, L.I.M.D, Pune	Outlet	1. Stem Rod of outlet gate is not in operation ,need to be changed.(B5)	Necessary repairs to be carried out in consultation with mechanical organization.
30	Name : **Garade** Tal.Purander Dist. Pune Date of completion: **1979** Location: Longitude**: 73° 55' 30"** Latitude: **18° 15' 00"** Height :**18.82 m.** Gross capacity :**1.869 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0794**	20.5.2021 15.11.2021	Shri.M.B. Kanitkar EE LIMD,Pune	WW Bar	1. Leakage through masonry from WW bar foundation is observed.(B7)	Necessary repairs to be carried out

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
31	Name : **Thitewadi** Tal.Purander Dist. Pune Date of completion: **2003** Location: Longitude**: 74° 02' 30"** Latitude: **18° 48' 00"** Height :**21.10 m.** Gross capacity :**9.86 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1623**	13.5.2021 6.12.2021	Shri.M.B. Kanitkar EE LIMD,Pune	WW Bar Tail Channel	1.Guide bund 200 m length is washed out in heavy flood.(A16) 2. Scouring (Aprox. Depth 1.5 m) in tail channel.(A7)	Necessary repairs to be carried out Necessary repairs to be carried out
(f)Executive Engineer, Chaskaman Irrigation Division, Pune						
32	Name : **Alegaon Pagga** Tal.Shirur Dist. Pune Date of completion: **1971** Location: Longitude**: 74° 12' 30"** Latitude: **18° 43' 30"** Height :**17.30 m.** Gross capacity :**3.37 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0993**	23.5.2021 12.11.2021	Shri. B. K. Shete, E E CID, Pune	EE	1.Dam profile is not as per design..Top width of dam is not as per design section.(B1)	Necessary repairs to be carried out
33	Name : **Nimgaon Mhalungi** Tal.Shirur Dist. Pune Date of completion: **1971** Location: Longitude**: 74° 12' 30"** Latitude: **18° 43' 30"** Height :**17.30 m.** Gross capacity :**3.37 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.0993**	23.5.2021 12.11.2021	Shri. B. K. Shete, E E CID, Pune	Earthen Embankment	1. Embankment is not as per design section ./ T.W. is not as per design section.(B1)	Necessary repairs should be carried out.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
34	Name : **Dahiwadi** Tal.Shirur Dist. Pune Date of completion: **1971** Location: Longitude**: 74° 12' 30"** Latitude: **18° 43' 30"** Height :**17.30 m.** Gross capacity :**3.37 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.1623**	23.5.2021 12.11.2021	Shri. B. K. Shete, E E CID, Pune	WW Bar Outlet	1.Top width of embankment is not as per design (B1) 2.Outlet gate of left bank canal is not functioning.(B5)	Necessary repairs should be carried out. Necessary repairs should be carried out.
35	Name :**Kadus** Tal.Khed Dist. Pune Date of completion: **1986** Location: Longitude**: 73° 55' 00"** Latitude: **18° 56 00"** Height :**16.65 m.** Gross capacity :**2.63Mcum** Sr.No.In Large Dam Register 2012:**MH09MH.1126**	23.5.2021 18.11.2021 Test Inspected by DSO 22.10.2021	Shri. B. K. Shete, E E CID, Pune Test Inspected by DSD1 Nashik	Outlet	1.Top width of embankment is not as per design B1 2.Guide wall of tail is washed away.A16 3.Downstream nappe of WW bar is in damaged condition.The Coping over spillway bar is in damaged condition.Pointing is required.(B7) 4. Retrogression and scouring on immediate downstream side of the bar is observed. Also Scouring in stilling basin is observed. (A7)	Necessary repairs should be carried out in consultation with mechanical organization. Repairs of the same shall be done in consultation with CDO, Nashik with preapproval from competent field officials before taking the work in hand. Necessary repairs shall be done in consultations with CDO, Nashik with preapproval from competent field officials before taking the work in hand.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(2)SuperintendingEngineer,Sangli Irrigation Circle Sangli						
Executive Engineer,Sangli irrigation Division, Sangli						
36	Name :**Antri** Tal. Shirala Dist. Sangli Date of completion:-**1991** Location : Longitude -74°05′00 Latitude -17°02′00 Height :-**22.79 m.** Gross capacity - **2.82Mcum** Sr.No.In Large Dam Register **MH09MH1215**	23.5.2021 29.11.2021	Smt. J.A.Deokar EE,SID Sangali	Embankment Outlet	1. Leakage or oozing is noticed on d/s side (A1)	Leakage data should be mainted and reason for leakage should be investigated & treated properly. It should be kept under observation strictly. It should be repaired properly.
37	Name : **Soradi** Tal. Jath Dist. Sangli Date of completion:-1983 Location : Longitude -75°22′30” Latitude -17°03′05” Height :-18.08 m. Gross capacity - 4.40 Mcum Sr.No.In Large Dam Register MH09MH1002	11.5.2021 14.12.2021	Smt. J.A.Deokar EE,SIDSangali	Outlet	1. Stem rod is not straight (B5)	Necessary remedial measures should be done in consultation with mechanical organization.
38	Name : **Tippehalli** Tal. Jath Dist. Sangli Date of completion:-1975 Location : Longitude -74°04′00” Latitude -17°08′00” Height :-18.12 m. Gross capacity - 2.02 Mcum Sr.No.In Large Dam Register MH09MH0513	18.5.2021 2.12.2021	Smt. J.A.Deokar EE,SIDSangali	Outlet	1.Outlet gate is completely damaged .Stem rod is broken.(B5)	Necessary remedial measures should be done

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
39	Name : **Bhiwargi** Tal. Jath Dist. Sangli Date of completion:-2001 Location : Longitude -73°31′50” Latitude -17°25′00” Height :-15.85 m. Gross capacity - 11.2 Mcum Sr.No.In Large Dam Register MH09MH1597	28.5.2021	Smt. J.A.Deokar EE,SIDSangali	WW Bar Outlet	1.There is leakage through WW bar. B7 2.There is leakage through outlet gate.A4	Necessary remedial measures should be done Necessary remedial measures should be done
40	**Name- Daribadchi** Tal. Jath Dist. Sangli Date of completion:-2010 Location : Longitude -75°24′00” Latitude -17°02′28” Height :-15.38 m. Gross capacity - 1.87 Mcum Sr.No.In Large Dam Register MH09MH29.1.2022	04.06.2021 14.12.2021 Test Inspected by DSO 29.1.2022	Smt. J.A.Deokar EE,SIDSangali Test Inspected by EE DSD 1 nashik	D/S D/S	1. On immediate d/s side Farm is there, hence its difficult to find out leakages from dam.(A2) 2. As per report of field officials, leakages are observed on d/s side in monsoon season(A1)	Regular vigilance should be there if there are leakages and record of the same should be maintained with respect to reservoir levels.
41	**Name- Dodanalla** Tal. Jath Dist. Sangli Date of completion:-1986 Location : Longitude -75°30′32” Latitude -17°13′00” Height :-16.20 m. Gross capacity - 6.50 Mcum Sr.No.In Large Dam Register MH09MH1136	11.05.2021 14.12.2021 Test Inspected by DSO 29.1.2022	Smt. J.A.Deokar EE,SIDSangali Test Inspected by EE DSD 1 nashik	EE Toe of Dam	1. Dam top seems to be undulating. Top width is reduced. Settlement of embankment and Gully formation on d/s side is observed. No proper access on dam top.(B1) 2. Field officials reported that there is minor leakage approx 3 lps near gorge portion @ toe of dam.(A1) 3.Stagnant Water (Ponding of Water) is observed on immediate	Existing L-Section shall be superimposed on design L-Section to ascertain changes in design dam top level. Communicate facts to DSO, Nashik. Necessary remedial measures should be done Source of stagnant water shall be traced out by draining the same and

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				D/S Outlet	d/s side near Gorge portion of dam.(A2) 4.As per filed officials report, leakage through gate and through periphery of well is observed. Gate is not properly closed.(A6)	facts regarding the same should be communicated to DSO. Proper maintenance of outlet gate should be done in consultation with mechanical wing with pre approval from competent authority.
42	**Name- Shegaon** Tal. Jath Dist. Sangli Date of completion:-1975 Location : Longitude -75°09′15” Latitude -17°09′02” Height :-19.82 m. Gross capacity - 8.08 Mcum Sr.No.In Large Dam Register MH09MH0529	18.05.2021 2.12.2021 Test Inspected by DSO 29.1.2022	Smt. J.A.Deokar EE,SIDSangali Test Inspected by EE DSD 1 nashik	Dam Top D/S	1.Dam top seems to be undulating. Top width is reduced. Settlement of embankment and Gully formation on d/s side is observed.(B1) 2. Stagnant Water (Ponding of Water) is observed on immediate d/s side of dam.(A2)	Existing L-Section shall be superimposed on design L-Section to ascertain changes in design dam top level. Communicate facts to DSO, Nashik. Source of stagnant water shall be traced out by draining the same and facts regarding the same should be communicated to DSO.
43	**Name- Pratappur** Tal. Jath Dist. Sangli Date of completion:-1987 Location : Longitude -75°04′00” Latitude -17°09′25” Height :-16.90 m. Gross capacity - 1.66 Mcum Sr.No.In Large Dam Register MH09MH1165	04.05.2021 2.12.2021 Test Inspected by DSO 28.1.2022	Smt. J.A.Deokar EE,SIDSangali Test Inspected by EE DSD 1 nashik	D/S	1.Stagnant Water (Ponding of Water) is observed on immediate d/s side of dam.(A2)	Source of stagnant water shall be traced out by draining the same and facts regarding the same should be communicated to DSO.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
44	**Name- Birnal** Tal. Jath Dist. Sangli Date of completion:-1977 Location : Longitude -75°20′00” Latitude -17°04′50” Height :-18.60 m. Gross capacity - 2.433 Mcum Sr.No.In Large Dam Register MH09MH0637	18.05.2021 2.12.2021 Test Inspected by DSO 28.1.2022	Smt. J.A.Deokar EE,SIDSangali Test Inspected by EE DSD 1 nashik		1.Dam top seems to be undulating. Top width is reduced. Earthen section seems to be under section in certain portion. (B1) 2. WW Bar is damaged at some places.(B7) 3. Well is not in working condition. Operation of outlet gate is not seems to be smooth.(A6)	Superimpose Existing Cross Section on Design Cross Section at every 30 m C/C to ascertain whether earthen embankment is under section or not. Communicate facts to DSO, Nashik. Repairing of the WW Bar is necessary as per design drawing. Trial Run of Gate/Valve is must to keep it fit for emergency use. Authenticated Register of Trial run must be maintained.
(a) Executive Engineer,Tembhu Lift Irrigation Project Management Division, Ogalewadi						
45	**Name- Chinchani** Tal. Kadegaon Dist. Sangli Date of completion:-1989 Location : Longitude -73°31′50” Latitude -17°20′25” Height :-17.46 m. Gross capacity - 4.31 Mcum Sr.No.In Large Dam Register MH09MH1222	6.1.2021 30.11.2021	Shri. L.B.Kengar SDO,TLIM Dn. Ogalewadi	Outlet	1. Minor bend is observed in stem rod. Rubber seals of some automatic gates are damaged and one manually operated gate is not in operating condition. (B5)	Necessary remedial measures should be done in consultation with mechanical organization.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
46	Name :**Atpadi** Tal. Atpadi Dist. Sangli Date of completion:-**1972** Location : Longitude -74°55′00” Latitude -17°24′00” Height :-**16.50 m.** Gross capacity - **8.67Mcum** Sr.No.In Large Dam Register **MH09MH0314**	6.5.2021 30.10.2021	Shri. L.B.Kengar SDO,TLIM Dn. Ogalewadi	Outlet	1. Stem rod is bent (**B5)**	Necessary remedial measures should be done in consultation with mechanical organization.
47	Name :**Buddhihal** Tal. Mangalwedha Dist. Solapur Date of completion:-**1966** Location : Longitude -**74°59’54’’** Latitude -**17°18’30’’** Height :-**18.52 m.** Gross capacity - **19.03Mcum** Sr.No.In Large Dam Register **MH09MH0134**	23.4.2021 12.10.2021 Test Inspected by DSO 29.1.2022	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi Test Inspected by DSD 1 Nashik	Embankment	1. Raincuts are developed on embankment. Crest profile is not at proper elevation. Undulations and local depression are observed. (B4) 2. There are major leakages through gate.(A4) 3 .Stagnant Water (Ponding of Water) is observed on immediate d/s side of dam. (A2)	Original dam section should be restored. Necessary remedial measures should be done Source of stagnant water shall be traced out by draining the same and facts regarding the same should be communicated to DSO.
48	Name :**Dighanchi** Tal. Atpadi Dist. Sangli Date of completion:-**1976** Location : Longitude -**74°55’30’’** Latitude -**17°24’30’’** Height :-**15.80 m.** Gross capacity - **4.0Mcum** Sr.No.In Large Dam Register **MH09MH0591**	6.5.2021 30.10.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Outlet	1. Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
49	Name :**Ghanand** Tal. Atpadi Dist. Sangli Date of completion:-**1986** Location : Longitude -**74°44'00''** Latitude -**17°44'30''** Height :-**15.46 m.** Gross capacity - 1.44**Mcum** Sr.No.In Large Dam Register **MH09MH1120**	7.4.2021 4.10.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Outlet	1. Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
50	Name :**Hingangaon** Tal. Atpadi Dist. Sangli Date of completion:-**1998** Location : Longitude -**74°12'00''** Latitude -**17°55'30''** Height :-**16.02 m.** Gross capacity - 2.01**Mcum** Sr.No.In Large Dam Register **MH09MH1462**	22.4.2021 8.11.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Outlet	1.Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
51	Name :Kadegaon Tal. Kadegaon Dist. Sangli Date of completion:-**1975** Location : Longitude -74°16′00" Latitude -17°16′00" Height :-**17.54 m.** Gross capacity - 2.36**Mcum** Sr.No.In Large Dam Register **MH09MH0510**	22.4.2021 8.11.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Embankment Outlet	1. There is standing pool on d/s side at 400m. chainage (A2) 2.Leakage or oozing through dam slope is observed**(**A1) **3.** Stem rod is slightly bent.(B5) **4.**Masonry of outlet well is disturbed at top coping (A6)	It should be kept under observation and its source should be identified Leakage data should be mainted and reason for leakage should be investigated & treated properly. It should be kept under observation strictly. Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.. It should be repaired properly

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
52	Name :**Karandewadi** Tal Kadegaon Dist. Sangli Date of completion:-**1995** Location : Longitude -**74°17'12"** Latitude -**17°22'00"** Height :-**18.45 m.** Gross capacity - 1.36**Mcum** Sr.No.In Large Dam Register **MH09MH1348**	22.4.2021 8.11.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Embankment Outlet	1. Settlement is gorge is observed, top width is reduced than design. (B1) 2. Stem rods are not straight.(B5)	Original dam section should be restored. Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
53	Name : **Morale** Tal Tasgaon Dist. Sangli Date of completion:-**1974** Location : Longitude -**74°42'09"** Latitude -**17°11'43"** Height :-**16.10 m.** Gross capacity - 0.65**Mcum** Sr.No.In Large Dam Register **MH09MH023**	2.5.2021 29.10.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	General	1. Approach road is not provided. (B6)	Road should be constructed
54	Name :**Nimbhavade** Tal Atadi Dist. Sangli Date of completion:-**1986** Location : Longitude -**74°52'30"** Latitude -**17°28'00"** Height :-**16.13 m.** Gross capacity - 6.68**Mcum** Sr.No.In Large Dam Register **MH09MH1187**	6.5.2021 30.10.2021	Shri. L.B.Kengar SDO,TLIM Dn. Ogalewadi	Embankment Outlet	1. Outlet well is not in good condition. Concrete on top of well is disturbed (A6) 2. Stem rod is bent (B5)	It should be repaired properly Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
55	Name : **Pare** Tal Khanapur Dist. Sangli Date of completion:-**1973** Location : Longitude -**74°35'00''** Latitude -**17°12'00''** Height :-**18.73 m.** Gross capacity - 34.6**Mcum** Sr.No.In Large Dam Register **MH09MH0296**	24.4.2021 9.11.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Masonry Portion	1. Upper slab, masonary portion of 1.5 m height completely damaged. (A6)	It should be repaired properly
56	Name : **Ped** Tal Tasgaon Dist. Sangli Date of completion:-**1972** Location : Longitude -**74°40'08''** Latitude -**17°12'05''** Height :-**19.04 m.** Gross capacity - 1.57**Mcum** Sr.No.In Large Dam Register **MH09MH0272**	2.5.2021 29.10.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Outlet	1.Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
57	Name :**Vejegaon** Tal Khanapur Dist. Sangli Date of completion:-**1979** Location : Longitude -**74°36'00''** Latitude -**17°23'00''** Height :-**16.77 m.** Gross capacity - 2.21**Mcum** Sr.No.In Large Dam Register **MH09MH0296**	24.4.2021 9.11.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	D/S	1. Boils and wet patches are observed on downstream side (A1)	Necessary repairs should be carried out properly.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
58	Name :**Walunj** Tal Lath Dist. Sangli Date of completion:-**1984** Location : Longitude -74°00′37” Latitude -17°00′19” Height :-**17.81 m.** Gross capacity - 1.69**Mcum** Sr.No.In Large Dam Register **MH09MH0635**	24.4.2021 9.11.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Outlet	**1.**Stem rod is bent (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
59	Name :**Mahadikwadi** Tal Atpadi Dist. Sangli Date of completion:-**2003** Longitude -**74°40’00’’** Latitude -**17°11’00’’** Height :-**16.02 m.** Gross capacity - 2.10**Mcum** Sr.No.In Large Dam Register **MH09MH1547**	6.5.2021 30.10.2021	Shri.R.Y. Reddiyar EE,TLIPD Ogalewadi	Outlet	1. Leakage through outlet gate is observed (A4)	Necessary remedial measures should be done in consultation with mechanical organization.
(3)Superintending Engineer, Kolhapur Irrigation Circle, Kolhapur						
(a) Executive Engineer. Kolhapur Irrigation Division, (North) Kolhapur						
60	Name :**DaryachiVadgaon** Tal. Chandgad Dist. Kolhapur Date of completion:-**1993** Location: Longitude:-**74°00’** Latitude: -**16°36’** Height -:**23.65 m.** Gross capacity-**0.8473 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1302**	15.5.2021 20.10.2021	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Embankment	1. Leakage through dam body is observed when water level at R.L. 88.00 to 92.70 m. from ch.135 to 195 m, but water is clear.(A1)	Leakage data should be mainted and reason for leakage should be investigated & treated properly. It should be kept under observation strictly.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
61	Name :**Kasarde** Tal. Shahuwadi Dist. Kolhapur Date of completion:-**2009** Location: Longitude -74°51′00” Latitude -16°55′30” Height -:**29.85 m.** Gross capacity-**4.416 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1908**	17.5.2021 24.11.2021	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Embankment Outlet	1. There are some boils / wet patches on downstream of dam within 200m. (A1) 2.Stem rod was broken in monsoon season.(B5)	Necessary repairs should be carried out properly Necessary repairs should be carried out properly
62	Name :**Andur** Tal. Gadhinglaj Dist. Kolhapur Date of completion:-**1982** Location: Longitude -73°58′00” Latitude -16°36′00” Height -:**24.51 m.** Gross capacity-**5.75 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0914**	12.5.2021 24.10.2021	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Outlet	1.Stem rod is slightly bend.(B5)	Necessary repairs should be carried out properly
63	Name :**Kode** Tal. Gadhinglaj Dist. Kolhapur Date of completion:-**1989** Location: Longitude -73°52′00” Latitude -16°28′00” Height -:**24.77 m.** Gross capacity-**6.06 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1224**	12.5.2021 24.10.2021	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Outlet	1.Stem rod is slightly bend.(B5)	Necessary repairs should be carried out properly

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
64	Name :**Manoli** Tal. Gadhinglaj Dist. Kolhapur Date of completion:-**2000** Location: Longitude -74°45′30” Latitude -16°55′00” Height -:**29.50 m.** Gross capacity-**5.196 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1537**	17.5.2021 24.11.2021	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	D/S	1.Boils, wet patches, water seepage on d/s of dam observed.(A1)	Necessary repairs should be carried out properly
65	Name :**Olwan** Tal. Gadhinglaj Dist. Kolhapur Date of completion:-**1996** Location: Longitude -74°52′00” Latitude -16°23′00” Height -:**24.74 m.** Gross capacity-**1.875 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1389**	19.4.2021 9.11.2021	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Outlet Outlet	1.A6 Major jet is observed through inside portion of wall. 2.A4 Major leakages are observed through rubber seal. (Quantity of leakage is not given.)	Necessary repairs should be carried out properly Necessary repairs should be carried out properly
66	Name :**Vesraf** Tal. Gadhinglaj Dist. Kolhapur Date of completion:-**1996** Location: Longitude -74°52′00” Latitude -16°23′00” Height -:**24.74 m.** Gross capacity-**1.875 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1389**	12.5.2021 24.10.2021	Shri.R. B. Bandiwadekar EE. KID (North) Kolhapur	Outlet Outlet	1.B5 Stem rod is slightly bend 2.A6 Cracks are observed to the outlet well.	Necessary repairs should be carried out properly Necessary repairs should be carried out properly.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(b) Executive Engineer,Kolhapur Irrigation Circle (South), Kolhapur						
67	Name :Dindalkop Tal. gadhinglaj, Dist. Kolhapur Date of completion:-**2014** Location: Longitude- 74°25′30” Latitude: -15°45′45” Height :-**27.61 m.** Gross capacity **2.625 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1925**	7.12.2021 7.12.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. Stem rods for lifting gate are not straight (B5)	Necessary remedial measures should be done in consultation with mechanical organization.
68	Name :**Erandol** Tal. chandgad, Dist. Kolhapur Date of completion:-**1999** Location: Longitude- 74°11′00” Latitude: -16°03′00” Height :-**30.55 m.** Gross capacity **4.210 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1514**	26.4.2021 30.11.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	WW Bar	1. WW bar is partially constructed.(B7)	Necessary remedial measures should be done
69	Name :**Kalasgade** Tal. chandgad, Dist. Kolhapur Date of completion:-**2000** Location: Longitude- 74°13′30” Latitude: -16°49′30” Height :-**16.46 m.** Gross capacity **1.91 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1532**	26.4.2021 21.11.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	EE	**1**. At saddle dam there is small leakage below the dam pitching. (A1)	Necessary remedial measures should be done

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
70	Name :**Karanjivane** Tal. chandgad, Dist. Kolhapur Date of completion:-**1989** Location: Longitude- 74°14′00” Latitude: -16°21′00” Height :-**21.00 m.** Gross capacity **1.51 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1209**	12.5.2021 23.11.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet Outlet	1.Cracks are observed in UCR masonry well from top.(A6) 2.Due to improper functioning of stem rod , circumferential crack observed from outer side. Stem rod in bend (B5)	Necessary remedial measures should be done Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization
71	Name :**Kitwad - 1** Tal. chandgad, Dist. Kolhapur Date of completion:-**2000** Location: Longitude- 75°25′00” Latitude: -15°58′00” Height :-**29.59 m.** Gross capacity **5.53 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1543**	15.5.2021 21.11.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. Stem rods for lifting gate are not straight (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
72	Name :**Kumari** Tal. Gadhinglaj, Dist. Kolhapur Date of completion:-**1998** Location: Longitude- 74°18′00” Latitude: -15°30′00” Height :-**23.64 m.** Gross capacity **2.59 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1457**	18.5.2021 28.10.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. Stem rods for lifting gate are not straight (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
73	Name :**Shendri** Tal. Gadhinglaj, Dist. Kolhapur Date of completion:-**1981** Location: Longitude- 74°21′00” Latitude: -16°16′00” Height :-**21.14 m.** Gross capacity **1.81 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0853**	19.4.2021 23.11.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. H.R. well is damaged (A6)	It should be repaired properly.
74	Name :**Sundi** Tal. Chandgad, Dist. Kolhapur Date of completion:-**2009** Location: Longitude- 74°22′00” Latitude: -15°16′00” Height :-**27.00 m.** Gross capacity **2.594 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1910**	15.5.2021 7.12.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Outlet	1. Stem rod for lifting gate is not straight (B5)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization.
75	Name :**Yenechavandi** Tal. Gadhinglaj, Dist. Kolhapur Date of completion:-**1996** Location: Longitude- **74°20’** Latitude: -**16° 11’** Height :-**21.65 m.** Gross capacity **1.545 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH139**	18.5.2021 28.10.2021	Shrimati S.C. Mane E.E. KID (S) Kolhapur	Earth Dam	1. D/S leakages at Ch 100 & 240m is observed. (A1)	It should be kept under observation. Leakage data should be mainted and reason for leakage should be in investigated & treated properly. Necessary repairs be carried out to damage portion.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(4)Superintending Engineer, Satara Irrigation Circle, Satara						
(a) Executive Engineer, Krishna Irrigation Division, Satara						
76	Name : **Kankatrewadi** Tal. Phaltan Dist. Satara Date of completion: **1978** Location: Longitude: **74°35′00"** Latitude:**17°29′00"** Height :**19.51 m.** Gross capacity :**1.24 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0736**	17.5.2021 27.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Earthen Embankment W.W.Bar D/S Outlet	1. There is leakage between joint of guide wall and earthen embankment ,clear water comes from guide wall. (A3) 2. Leakage through masonry and from the foundation is observed..(B7) 3. Boil,wet patches ,water seepage ,slushy ground on the d/s of dam within 200mtr from the toe drain are observed.(A1) 4. Outlet well is not in good condition. (A6)	This should be kept under observation. Leakage should be measured, monitored and necessary repair to be carried out if necessary. Necessary repairs should be carried out. Necessary repairs should be carried out
77	Name :**Thoseghar** Tal. Satara Dist. Satara Date of completion:-**1989** Location : Longitude- **73°52′00"** Latitude -**17°36′00"** Height :-**18.05 m.** Gross capacity :**1.91 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH1208**	4.5.2021 2.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Earthen Dam Outlet W.W.Bar Tail Channel	1. Relief wells are not functioning. (A5) 2. Some leakage is observed through w.w. bar. Repairing of WW bar is required. Waste weir bar is temporary supported with large size boulders and rubble in between boulders and waste weir bar coping is provided over partial length of waste weir bar (B7) 3. Tail channel is heavily damaged. (A7)	Necessary repairs should be carried out. Causes of exact leakages should be investigated & treated accordingly. Necessary repairs should be carried out. Necessary repairs should be carried out.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
					4. Guide wall,divide wall and guide bund damaged.(A16)	Necessary repairs should be carried out.
				Outlet Gate	5. Gate is not working smoothly.(A4)	
					6. Upstream slope near well is sunk by some depth.(B3)	Necessary repairs should be carried out.
				EE		
				Outlet	7. Leakage through wall of well and leakage through gate is observed	Necessary repairs should be carried out.
				Outlet	8. Stem rod is slightly bend.(B5)	
78	Name :**Ner** Tal. Khatav Dist. Satara Date of completion:-**1981** Location : Longitude- **74°18′00"** Latitude -**17°44′00"** Height :-**22.50 m.** Gross capacity :**9.12 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0018**	17.5.2021 27.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Earthen Embankment	1. Longitudinal cracks are observed on dam top during summer period. (B4)	There should be close vigil on the behavior of cracks. Depthwise extend of crack shall be find out and proposed remedial action with necessary drawings shall be communicated to DSO, Nashik.
				WW bar	2. There is weak construction joint observed 3ft below ww bar and heavy leakage through these jonts.(B7)	Necessary remedial actions should be taken.
				EDA	3. EDA needs urgent repairs and construction.(A14)	Necessary remedial actions should be taken.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
79	Name :**Pingali** Tal.Man Dist. Satara Date of completion:-**1878** Location : Longitude- **74°33′00"** Latitude -**17°41′00"** Height :-**16.00 m.** Gross capacity :**2.38 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00731**	10.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Earthen Embankment Outlet	1. Standing pool of water is observed on D/S side of earthen dam.(A2) 2. Outlet well not in good condition.(A6)	Necessary repairs shall be carried out. Necessary repairs should be carried out in consultation with mechanical organization.
80	Name :**Yeralwadi** Tal.Khatav Dist. Satara Date of completion:-**1973** Location : Longitude- **74°29′35"** Latitude -**17°31′24"** Height :-**19.50 m.** Gross capacity :**32.80 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00386**	7.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Outlet	1. Stem rod of both gates are bent.(B5)	Necessary repairs shall be carried out through mechanical organization.
81	Name :**Jambhulani** Tal.Man Dist. Satara Date of completion:-**1981** Location : Longitude- **74°60′00"** Latitude -**17°34′00"** Height :-**15.21 m.** Gross capacity :**2.41 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0516**	10.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Outlet Outlet well	1. Stem rod for lifting the gate is not straight.(B5) 2. Outlet well not in good condition.(A6)	Necessary repairs shall be carried out through mechanical organization. Necessary repairs should be carried out.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
82	Name :**Ranand** Tal.Man Dist. Satara Date of completion:-**1956** Location : Longitude- **74°40′00"** Latitude -**17°43′00"** Height :-**19.32 m.** Gross capacity :**7.12 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0078**	10.5.2021 28.12.2021 Test Inspected by DSO 30.1.2022	Shrimati S.S.Magdum E.E., KID, Satara Test Inspected by EE DSD1 Nashik	D/S Tail Channel EE EE WW Bar	1. Standing pool of water on d/s of dam is observed.(A2) 2. Retrogessiopn/scouring noticed in tail channel.(A7) 3. Earthen section seems to be under section in certain portion. (B1) 4.Dam top seems to be undulating. Top width is reduced. Settlement of embankment is observed.(B3) 5. Minor leakages are observed from WW Bar.(B7)	Necessary repairs shall be carried out. Necessary repairs should be carried out Superimpose Existing Cross Section on Design Cross Section at every 30 m C/C to ascertain whether earthen embankment is under section or not. Communicate facts to DSO, Nashik. Existing L-Section shall be superimposed on design L-Section to ascertain changes in design dam top level. Communicate facts to DSO, Nashik. Source of stagnant water shall be traced out by draining the same and facts regarding the same should be communicated to DSO. Necessary Raking & Pointing of stone masonry of WW Bar at portion of sweating and minor leakage areas should be done with pre approval from competent field authority.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
83	Name :**Andhali** Tal.Man Dist. Satara Date of completion:-**1997** Location : Longitude- **74°30′00"** Latitude -**17°45′07"** Height :-**18.60 m.** Gross capacity :**9.273 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH01443**	10.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Outlet well	1. Repairing of outlet well is required.(A6)	Necessary repairs shall be carried out.
84	Name :**Arabwadi** Tal.Koregaon Dist. Satara Date of completion:-**1977** Location : Longitude- **74°04′00"** Latitude -**17°50′07"** Height :-**17.35 m.** Gross capacity :**1.89 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00621**	5.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Outlet Gate EE	1.Stem rod for lifting the gate is not straight.(B5) 2. Top width of tha dam is reduced. Local depressions and small undulations on dam top. (B1)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization. Original dam section should be restored
85	Name :**Daruj** Tal.Khatav Dist. Satara Date of completion:-**1956** Location : Longitude- **74°25′00"** Latitude -**17°40′00"** Height :-**16.46 m.** Gross capacity :**2.88 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00074**	17.5.2021 27.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Outlet well	1.Outlet well not in good condition.(A6)	Necessary repairs shall be carried out.
86	Name :**Dhakani** Tal.Man Dist. Satara Date of completion:-**1994** Location :	10.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID,	EE	1. Relief wells are not functioning properly.(A5)	Necessary repairs shall be carried out.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Longitude- **74°41′00"** Latitude -**17°35′00"** Height :-**18.50 m.** Gross capacity :**3.05 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH01335**		Satara			
87	Name :**Hiware** Tal.Man Dist. Satara Date of completion:-**1974** Location : Longitude- **74°11′00"** Latitude -**17°50′00"** Height :-**18.14 m.** Gross capacity :**2.74 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH00443**	5.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Outlet	1.B5 Stem rod for lifting the gate is not straight	Necessary repairs shall be carried out.
88	Name :**Kumathe** Tal.Man Dist. Satara Date of completion:-**2001** Location : Longitude- **73°52′00"** Latitude -**17°26′00"** Height :-**27.13 m.** Gross capacity :**2.86 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH01682**	4.5.2021 2.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	Outlet D/S	1.A6 Leakage through outlet well is observed. 2.A1 Boils ,wet patches,water seepage slushy ground on the d/s of dam	Necessary repairs shall be carried out. Necessary repairs shall be carried out.
89	Name :**Nandwal** Tal.Koregaon Dist. Satara Date of completion:-**2008** Location : Longitude- **74°11′00"** Latitude -**16°37′10"**	5.5.2021 28.12.2021	Shrimati S.S.Magdum E.E., KID, Satara	EE	1. B4 Some small rain cuts are observed on d/s of dam and longitudinal cracks ,crab holes observed on top	Necessary repairs shall be carried out.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Height :-**18.78 m.** Gross capacity :**9.39 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH01640**					
(b) Executive Engineer, Koyna Irrigation Division, Koynanagar						
90	Name :**Chaphal** Tal. Satara Dist. Satara Date of completion:-**1983** Location : Longitude- **74°00′28"** Latitude -**17°24′24"** Height :-**18.05 m.** Gross capacity :**1.91 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH0966**	20.5.2021	Shri. K.H. Patil E.E., Koyna Irrigation Division, Koynanagar	WW Bar	1. There is damages below the protection wall (@base of the wall of UCR masonry,) (B7)	Damaged portion of UCR masonry due to dislodging of stones shall be repaired.Also,repointing of UCR masonry shall be done following due procedure as raking etc complete.
91	Name :**Chalakewadi** Tal. Satara Dist. Satara Date of completion:-**1991** Location : Longitude- **74°05′00"** Latitude -**17°11′00"** Height :-**21.53 m.**	18.5.2021 26.11.2021	Shri. K.H. Patil E.E., Koyna Irrigation Division, Koynanagar	Outlet	1. Stem rod fro lifting the gate is not straight.(B5)	Necessary repairs shall be carried out.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Gross capacity :**0.80 Mcum** Sr.No.In Large Dam Register 2012: **MH09MH1258**					
[B] Chief Engineer (S.P) Water Resources Department, Pune						
(1) Superintending Engineer Kukadi Irrigation Circle Pune						
(a) Executive Engineer ,Kukadi Irrigation Division No. 1 Narayangaon						
92	Name : Ramjewadi Tal. Junnar Dist. Pune Date of completion:1983 Location: Longitude -73°41'00'' Latitude - 19°13'00'' Height :- 21.48m. Gross capacity 1.72 Mcum Sr.No.In Large Dam Register 2012:MH09MH 0965	20.5.2021 26.11.2021	Shri.P.P. Kaduskar EE KID, Narayngaon	Outlet	1.Sign of concavity near irrigation outlet. (the cross section at random locations and suspected locations with tape and level is not given in report) (B5)	Necessary repairs should be carried out.
93	Name : **Otur Waghdara** Tal. Junnar Dist. Pune Date of completion:1992 Location: Longitude -**74°02'00''** Latitude - **19°05'00''** Height :- **20.16m.** Gross capacity 0.953 **Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1262**	19.5.2021 24.11.2021 Test Inspected by DSO 22.10.2021	Shri.P.P. Kaduskar EE KID, Narayngaon Test Inspected by EE DSD 1 Nashik	E E Outlet D/S	1.Leakage through dam foundation and storage created in dam depletes in one to two months. (A1) 2.Outlet well gate not in working condition.(B5) 3.Leakages are observed on d/s side of the dam. Also water Ponding is observed on the d/s of dam. (A2)	Necessary repairs should be carried out. It should be lubricated periodically. At least, it should be properly lubricated after monsoon season. Source and quantity of leakage should be measured in consultation with the CDO, Nashik with preapproval from competent field officials immediately without fail.As field officials reported that water level is going down automatically & leakage is not observed.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
				Outlet	4. Outlet well gate repair is required. Outlet gate is not in working condition. (A6)	Necessary repairs shall be done in consultations with Mechanical Wing with preapproval from competent field officials before taking the work in hand.
94	Name : **Ghangaldara** Tal. Junnar Dist. Pune Date of completion:2009 Location: Longitude -**74°00'00''** Latitude - **18°20'00''** Height :- **26.34m.** Gross capacity 2.34 **Mm3** Sr.No.In Large Dam Register 2012:**MH09MH1906**	20.5.2021 26.11.2021	Shri.P.P. Kaduskar EE KID, Narayngaon	E. Gate	1. Emergency gate is supplied but not installed. (B5)	Necessary repairs should be carried out.
95	Name : **Ucchil** Tal. Junnar Dist. Pune Date of completion:2001 Location: Longitude -**73°41'00''** Latitude - **19°13'00''** Height :- **13.01m.** Gross capacity 3.12 **Mm3** Sr.No.In Large Dam Register 2012:**MH09MH1572**	20.5.2021 26.11.2021	Shri.P.P. Kaduskar EE KID, Narayngaon	WW bar	1. UCR Masonry of spillway bar is totally damaged and leakage through masonry is seen.(B7)	Necessary repairs should be carried out.
96	Name : **Anepemdara** Tal. Junnar Dist. Pune Date of completion:1998 Location: Longitude -**73°14'00''**	21.5.2021 24.11.2021	Shri.P.P. Kaduskar EE KID, Narayngaon	Outlet WW Bar	1. Operation of outlet gate is not smooth (B5) 2. Stem rod damaged (B5) 3. Heavy leakage between joint of earthwork and flank wall,	Necessary repairs should be carried out. Necessary repairs should be carried out.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Latitude - **19°11'00''** Height :- **14.37m.** Gross capacity 2.09 **Mcum** Sr.No.In Large Dam Register 2012:**MH09LH 1473**				heavy leakage through WW bar. (B7)	
97	Name : **Gohe** Tal. Junnar Dist. Pune Date of completion:1996 Location: Longitude -**73°44'00''** Latitude - **19°04'00''** Height :- **17.49m.** Gross capacity 1.28 **Mm3** Sr.No.In Large Dam Register 2012:**MH09MH1397**	22.6.2021 27.11.2021	Shri.P.P. Kaduskar EE KID, Narayngaon	WW bar Embankment	1.Damage to waste weir bar is observed.(B7) 2.Slight leakage is observed at junction between embankment and spillway.(B7)	Necessary repairs should be carried out. Necessary repairs should be carried out.
98	Name : **Ballalwadi** Tal. Junnar Dist. Pune Date of completion:1996 Location: Longitude -**73°55'30''** Latitude - **19°15'00''** Height :- **20.16m.** Gross capacity 2.34 **Mm3** Sr.No.In Large Dam Register 2012:**MH09MH1397**	4.6.2021 24.11.2021 Test Inspected by DSO 22.10.2021	Shri.P.P. Kaduskar EE KID, Narayngaon Test Inspected by EEDSD1 Nashik	D/S	1.Leakages/Seepage are observed on d/s side of the dam.(A1)	Source of leakage should be find out and quantity of leakage should be measured in accordance to the various reservoir levels & record of the same should be maintained and communicated to DSO, Nashik
(2) Superintending Engineer & Admn. C.A.D.A. Solapur						
(a) Executive Engineer,Solapur Irrigation Division, Solapur						
99	Name : **Chare** Tal. Karmala Dist. Solapur Date of completion:1983 Location: Longitude -75°45'30" Latitude - 18°35'42" Height :- **16.30m.** Gross capacity 1.50 **Mcum**	5.5.2021 10.11.2021	Shri. M.T.Jadhvar EE,SID, Solapur	Embankment	1.Some rain cuts are observed on dam top at ch 0/30to 0/70. Crack shown of 3 to 3.6m in length width 75-100 mm and depth upto 0.60m. (B4)	Necessary remedial measures should be done

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Sr.No.In Large Dam Register 2012:**MH09MH0973**					
100	Name : **Hingani (K)** Tal. Karmala Dist. Solapur Date of completion:1974 Location: Longitude -75°24'30" Latitude - 18°16'00" Height :- **16.15 m.** Gross capacity 2.22 **Mcum** Sr.No.In Large Dam Register 2012:**MH09MH 0441**	8.5.2021 10.11.2021	Shri. M.T.Jadhvar EE,SID, Solapur	Outlet	1. One stem rod is bend (B5)	Necessary remedial measures should be done in consultation with mechanical organization.
101	Name : **Kazikunbus** Tal. Akkalkot Dist. Solapur Date of completion:1992 Location: Longitude -**76°10'00''** Latitude - **17°43'00''** Height :- **20.00m.** Gross capacity 4.031**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH 1224**	10.5.2021 16.11.2021	Shri. M.T.Jadhvar EE,SID, Solapur	Outlet	1.Gate operation is not working due to stem rod problem In head regulator stem rod is broken, repairing is necessary. Stem rod is kniped by farmers hence gate is not in operation. (B5) 2. Coping over the spillway bar is fully washed out. (B7)	Necessary repairs should be carried out in consultation with Mechanical organisation. Necessary repairs should be carried out
102	Name : **Kari** Tal. Akkalkot Dist. Solapur Date of completion:1973 Location: Longitude -**75°00'20''** Latitude - **18°55'00''** Height :- **20.00m.** Gross capacity 4.031**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH 1224**	5.5.2021 10.11.2021	Shri. M.T.Jadhvar EE,SID, Solapur	WW Bar	1.Some masonry of W.W. bar is disturbed. Tail channel badly eroded near flank wall & immediate repair is needed. (B7)	Necessary repairs should be carried out
103	Name :**Mangi** Tal. Karmala Dist. Solapur Date of completion:**1966**	8.5.2021 12.11.2021	Shri. M.T.Jadhvar & Shri. D.J.	Embankment	1. Longitudinal cracks developed in embankment Ch 1621-1645m. variable depth approx.	Original dam section should be restored

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Location: Longitude -75°17'00" Latitude -17°17'00" Height :-**22.95 m.** Gross capacity :**3.09 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0131**		Kondekar EE,SID,Solapur		1.2m (B4) 2. Relief wells are not in working condition (A5)	They should be cleaned and made functional.
104	Name :**Rajuri** Tal. Karmala Dist. Solapur Date of completion:**1981** Location: Longitude -**74°58'** Latitude -**18°22'** Height :-**19.29 m.** Gross capacity :**2.520 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0894**	8.5.2021 12.11.2021	Shri. M.T.Jadhvar & Shri. D.J. Kondekar EE,SID, Solapur	Tail Channel	1. Heavy retrogression is noticed on downstream of bar near divide wall. (A7)	Protective measures, as per necessity shall be undertaken to prevent progressive damage.
(b)Executive Engineer Bhima Developement Division No.2, Solapur						
105	Name :**Ashti** Tal. Mohol Dist. Solapur Date of completion:-1883 Location : Longitude - **75°-26' 00''** Latitude - **17°47'30''** Height :-**17.60 m.** Gross capacity :23.01**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0014**	6.5.2021 9.11.2021	Shri. R. N. kshirsagarEE BDD no.2 Solapur	Earthen Embankment	1. Cracks are observed at top of embankment in between ch. 2230 to 2385 m (Longitudinal and minor cracks are observed(B4) 2. Top of embankment not as per design section of dam. Ch 2340 m. to 2360 m (B1) 3. Relief wells are not functioning properly.(A5)	Necessary repairs should be carried out and dam section should be restored. Necessary repairs should be carried out and dam section should be restored.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(c)Executive Engineer Bhima Irrigation Division, Pandharpur						
106	Name :**Talsangi** Tal. Mangalwedha Dist. Solapur Date of completion:-1973 Location : Longitude - **75°-26' 00''** Latitude - **17°01'20''** Height :-**15.24 m.** Gross capacity : 2.43**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0579**	14.5.2021 11.1.2022	EE BID Pandharpur	WW Bar	1.Some portion of WW Bar (about 12 to 15 m) lonf is not constructed.(B7)	Necessary repairs should be carried out
107	Name :**Chincholi** Tal. Mangalwedha Dist. Solapur Date of completion:-1966 Location : Longitude - **75°-28' 00''** Latitude - **17°24'20''** Height :-**15.24 m.** Gross capacity : 2.74**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0128**	13.5.2021 11.1.2022 Test Inspected by DSO 29.1.2022	EE BID Pandharpur Test Inspected by EE DSD1 Nashik		1.Stagnant Water (Ponding of Water) is observed on immediate d/s side of dam. (A2) 2. Earthen section seems to be under section in certain portion. (B1)	Source of stagnant water shall be traced out by draining the same and facts regarding the same should be communicated to DSO. Superimpose Existing Cross Section on Design Cross Section at every 30 m C/C to ascertain whether earthen embankment is under section or not. Communicate facts to DSO, Nashik.
Superintending Engineer, Bhima Canal Circle Solapur						
(c)Executive Engineer Minor Irrigaton Division No.1, Solapur						
108	Name :**Babhulgaon** Tal. Mohol Dist. Solapur Date of completion:-1993 Location : Longitude - **75°-46' 55''** Latitude - **18°19'23''** Height :-**16.93 m.** Gross capacity :6.40**Mcum** Sr.No.In Large Dam Register	12.5.2021 9.10.2021	Shri. R.P.More EE,MID No.1 Solapur	Outlet Earthen Embankment	1. Outlet well not in good condition. HR well are fully silted up due to that HR gates are not functioning.(A6) 2. Boils, wet patches or water seepage slushiness is seen on d/s slope(A1)	Well should be desilted. Necessary repairs should be carried out

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	2012:**MH09MH1620**					
109	Name :**Gholasgaon** Tal. Akkalkot Dist. Solapur Date of completion:-2004 Location : Longitude - **76°-15' 18''** Latitude - **17°30'50''** Height :-**16.24 m.** Gross capacity :2.08 Sr.No.In Large Dam Register 2012: **Proposed for updation in NRLD 2020**	9.3.2021 NR	Shri. R.P.More EE,MID No.1 Solapur		**1**.B4 Longitudinal cracks is seen on dam top for considerable length.Dam top seems to be undulating. 2.A5 Relief wells are not operated yet.	
110	Name :**PimpalgaonDhale** Tal. Barshi Dist. Solapur Date of completion:-2008 Location : Longitude - 75°47'40" Latitude - 18°10'10'' Height :-**18.70 m.** Gross capacity :12.66**Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1840**	12.5.2021 9.10.2021 Test Inspection by DSO 31.1.2022	Shri. R.P.More EE,MID No.1 Solapur Test Inspected by EE DSD 1 Nashik	Outlet EE	1.Stem rod for lifting gate is not straight (B5) 2..Dam top seems to be undulating. Top width is reduced.(B1) 3.Stagnant Water (Ponding of Water) is observed on immediate d/s side of dam.(A2)	Depending on severity of bending Stem Rod should be either repaired or replaced in consultation with Mechanical Organization. Existing L-Section shall be superimposed on design L-Section to ascertain changes in design dam top level. Communicate facts to DSO, Nashik. Source of stagnant water shall be traced out by draining the same and facts regarding the same should be communicated to DSO.

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(2) Superintending Engineer, SataraProject Irrigation Circle, Satara						
(a) Executive Engineer, Minor Irrigation Division Satara						
111	**Mahind** Tal- Patan Dist- Satara Date of completion: **2000** Location: Longitude **73°54'13"** Latitude **17°22'05"** Height :**21.32 m.** Gross capacity- 2.404**Mcum** Sr.No.In Large Dam Register 2012: **MH09MH1838**	14.5.2021	Shri.S.J. Hiray EE MID Satara	W.W.Bar and Tail Channel E.E. Embankment Outlet	1. Retaining wall of right side of tail channel is collapsed for length of 19m (A7) 2. Top width of dam as per design is 3.00m.Due to movement of live stock it is eroded and now top width remains 2.50m on average throughout the length of dam.(B1) 3. The portion of the longitudinal toe drain and exposed cross drains beyond the d/s toe of the dam are not in regular section and not freely draining.(B2) 4. Depression in embankment near head regulator is observed.A pit of size 3X3 m is formed. Also a pit is formed in u/s embankment at ch 155 to 165.(B3) 5. Leakage is observed through pipe joints of outlet. UCR masonry and concrete on d/s side of irrigation outlet is eroded and required repairs(A3)	Necessary repairs should be carried out. Original dam section should be restored Necessary repairs should be carried out. Necessary repairs should be carried out. Necessary repairs should be carried out.

Table 3.15

Class-II Dams with Category-3 Deficiency

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
[A]Chief Engineer (W.R.) Water Resources Department Pune										
(1) Superintending Engineer Pune Irrigation Circle, Pune										
(a) Executive Engineer, Pune Irrigation Division, Pune										
1	**Adale** Tal. Mawal Dist .Pune	1985	73°37'00" 18°39'00	19.17	1.27	330.0	**MH09MH 1086**	Not received	---	---
2	**Chinchwad** Tal. Pune Dist .Pune	1984	73°40'00" 18°15'00	20.92	1.53	137.70	**MH09MH 1033**	4.5.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	10
3	**Divale** Tal. Bhor , Dist. Pune	1985	73° 55'00" 18°15'00"	20.83	2.14	273	**MH09MH 1082**	2.6.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23,3.30, 3.31,3.9	11
4	**Gadadwane**Tal.Mulashi Dist. Pune	2007	73°35'00" 18°14'00	26.20	1.859	3224	**MH09MH 1668**	4.5.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	11
5	**Hadashi** Tal. Mulashi Dist. Pune	1991	73° 32'00" 18°36'00"	21.83	3.07	181	**MH09MH 1235**	29.4.2021 Not received	3.1, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30,3.31,3.9	10
6	**Hadashi-2** Tal.Mulashi Dist. Pune	1999	73°52'00" 18°36'00	20.45	1.41	81.48	**MH09MH 1674**	29.4.2021 Not received	3.1, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	10
7	**Mahakoshi** Tal. Bhor Dist .Pune	1998	73° 50'00" 18°05'00"	24.00	2.28	583	**MH09MH 1474**	2.6.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	11
8	**Naigaondevgaon** Tal. Bhor Dist .Pune	1979	73° 53'00" 18°17'00"	22.49	1.332	241	**MH09MH 0762**	2.6.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	10

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
9	**Pimpoli** Tal. Mulashi Dist .Pune	1984	73°30'00″ 18°36'00	22.13	1.53	257.0	**MH09MH 1045**	29.4.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	11
10	**Rihe** Tal. Mulashi Dist .Pune	1977	73°39'00″ 18°34'00	21.95	1.58	698.90	**MH09MH 0642**	29.4.2021 Not received Test Inspected by DSO 27.8.2021	3.1, 3.2, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	11
11	**Shere** Tal. Puner Dist .Pune	1998	73°52'00″ 18°36'00	22.98	1.72	123.20	**MH09MH 1458**	4.5.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	11
12	**Shetphal** Tal. Indapur Dist .Pune	1901	75°00'30″ 18°01'00	20.11	17.36	No Spillway	**MH09MH 0021**	26.5.2021 Not received	3.1, 3.2, 3.6, 3.9, 3.10, 3.13	6
13	**Walen** Tal. Pune Dist .Pune	1989	73°30'00″ 18°35'00	20.75	1.51	90.0	**MH09MH 1216**	29.4.2021 Not received	3.1, 3.2, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	10
14	**Urawade** Tal.Mulashi Dist. Pune	1983	74°56'00″ 18°30'00	23.48	2.00	203.50	**MH09MH 0964**	4.5.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.7, 3.9, 3.16, 3.20, 3.23, 3.30, 3.31	11
15	**Khamboli** Tal.Mulashi Dist. Pune	2000	73°35'00" 18°35'00"	25.36	2.065	227.50	**MH09HH 1535**	29.4.2021 Not received	3.1, 3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	9
16	**Marnewadi** Tal.Mulashi Dist. Pune	1998	73°40'00″ 18°30'00	18.35	0.87	64.06	**MH09MH 1453**	4.5.2021 Not received	3.1, 3.2,3.5, 3.6, 3.7, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	11
17	**Waghajwadi** Tal.Bhor Dist. Pune	2001	73°50'00″ 18°15'00	20.57	1.66	215	**MH09MH 1574**	24.5.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	10

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
18	**Bhongavali**Tal.Bh or Dist. Pune	2015	74°00'00″ 18°15'00	25.00	3.32	239.96	**Proposed for NRLD**	2.6.2021 Not received	3.1, 3.2, 3.5, 3.6, 3.16, 3.20, 3.23, 3.30, 3.31,3.9	10
(b) Executive Engineer, Lift Irrigation Management Division Pune										
19	**Ghorwadi** Tal. Purandar Dist. Pune	1996	74°18'00" 18°10'00"	19.81	1.912	104.50	**MH09MH. 1413**	20.5.2021 15.11.2021	3.1,3.2,3.6, ,3.9,3.13,3.20,3.31	7
20	**Mahur** Tal.Purandar Dist. Pune	1978	74°10'00" 18°04'00"	22.99	2.36	563	**MH09MH. 0732**	27.5.2021 16.11.2021	3.2, 3.5, 3.7, 3.10, 3.13, 3.16, 3.22, 3.31	8
21	**Malwandi** Tal.Maval Dist. Pune	2000	73°31'00" 18° 39'30"	20.45	3.68	282.80	**MH09MH 1529**	Not Received		
22	**Pilanwadi** Tal. Saswad Dist .Pune	1978	73°52'00″ 18°36'00	22.77	1.94	771.20	**MH09MH 0729**	27.5.2021 16.11.2021	3.2,3.9,3.13,3.16,3.20,3.21,3.31,3.34	8
23	**Pingori** Tal. Purandar Dist. Pune	1969	74°07'00" 18°13'00"	22.13	1.54	191	**MH09MH. 0178**	27.5.2021 15.11.2021	3.1, 3.2, 3.5, 3.6, 3.7, 3.13, 3.20	7
24	**Virnalla** Tal. Purandar Dist. Pune	1956	74°05'00" 18°10'00"	21.81	3.585	925.75	**MH09MH. 1415**	27.5.2021	3.1, 3.2, 3.7, 3.13,3.16,3.31	6
25	**Garade** Tal. Purandar Dist. Pune	1979	73°55'00" 18°15'00"	18.82	1.869	3224	**MH09MH. 0794**	20.5.2021 15.11.2021	3.2,3.5,3.7,3.13,3.16,3.19,3.20, 3.21,3.31	9
26	**Thitewadi** Tal. Shirur Dist. Pune	2003	74°02'30" 18°48'00"	21.10	9.86 Mcum	1623.64	**MH09MH 1623**	13.5.2021 6.12.2021	3.1, 3.2, 3.7, 3.9, 3.10, 3.13, 3.16, 3.19, 3.20, 3.21.	10

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
(c) Executive Engineer, Khadakwasla Irrigation Division Pune										
27	**Ambegaon** Tal. Haweli Dist. Pune	1979	73°50′30" 18°26′30"	21.78	1.93	230	**MH09MH 0758**	22.5.2021 5.12.2021	3.1, 3.2, 3.7, 3.9, 3.13, 3.19, 3.20, 3.22, 3.31	9
28	**Bhugaon** Tal. Mulashi Dist. Pune	1983	73°45'00" 18° 30'00"	21.19	1.90	208	**MH09MH 0963**	22.5.2021 5.12.2021	3.1, 3.2, 3.7, 3.13, 3.19, 3.20, 3.22.	7
29	**Malad** Tal. Daund Dist. Pune	1979	74°34'00" 18° 23'00"	15.63	1.74	800	**MH09MH 0796**	23.5.2021 28.11.2021	3.9, 3.13, 3.16, 3.19, 3.20, 3.28	6
30	**Palasdeo** Tal. Shirur Dist. Pune	1953	74°34'00" 18°23'00"	18.23	1.09	383.0	**MH09MH 0063**	23.5.2021 28.11.2021 Test Inspected by DSO 31.1.2022	31,3.2,3.5,3.6, 3.13, 3.16, 3.20, 3.25, 3.28	9
31	**Matoba** Tal. Daund Dist. Pune	1978	74° 34'00" 18°00'23	17.50	45.2	476	**MH09MH 0721**	23.5.2021 28.11.2021	3.1, 3.2, 3.7, 3.9, 3.13, 3.16, 3.19, 3.22, 3.28.	9
32	**Shirsuphal** Tal. Baramati Dist. Pune	1879	74° 35'20" 18°21'00"	20.11	10.1	112	**MH09MH 0011**	23.5.2021 28.11.2021 Test Inspected by DSO 31.1.2022	3.1, 3.2, 3.5,3.6, 3.7, 3.9	6
(d) Executive Engineer, Nira Right Bank Canal Division, Phaltan										
33	**Banganga** Tal.Phaltan Dist. Satara	1955	74° 25'00" 17°40'00"	16.76	6.50	1110	**MH09MH. 0071**	23.5.2021 23.10.2021	3.1, 3.5 ,3.6,3.9,3.26	5
34	**Girzani** Tal.Malshiras Dist. Solapur	1989	74° 59'00" 17°52'00"	17.98	2.07	663	**MH09MH. 1223**	23.5.2021 Not received	3.1, 3.7	2

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
35	**Hingangaon** Tal. Khatav Dist. Satara	1975	74° 58'05" 17°06'10"	17.53	1.47	465.80	**MH09MH 0473**	22.5.2021 4.11.2021	3.1, 3.6,3.7, 3.9, 3.10, 3.13,3.15, 3.20, 3.21, 3.34	10
36	**Mhaswad** Tal. Man Dist. Satara	1876	74° 53'00" 17°35'00"	24.00	46.13	4321.41	**MH09MH 0017**	17.5.2021 Not received	3.1, 3.5, 3.7, 3.9	4
37	**Nimgaon** Tal. Malshiras Dist. Solapur	1986	74° 59'00" 17°52'00"	20.30	6.958	909	**MH09MH. 0247**	25.5.2021 Not received	3.1, 3.7	2
38	**Phondshiras** Tal. Malshiras Dist. Solapur	1991	74°49'00" 18°08'00"	16.68	2.92	725	**MH09MH. 1277**	25.5.2021 Test inspected by DSO 30.1.2022	3.1, 3.2,3.5.3.7,3.9,3.22	6
39	**Sangvi Shirwal** Tal.Khandala Dist. Satara	1993	73° 58'00" 18°07'00"	18.00	1.335	1371	**MH09MH. 1318**	15.5.2021 Not received	3.1, 3.7, 3.9, 3.13, 3.20, 3.21,3.16	7
40	**Tambave** Tal.Phaltan Dist. Satara	1966	74°10'00″ 18°00'00	16.80	5.42	961.0	**MH09MH 0167**	22.5.2021 4.11.2021	3.1,3.5,3.6,3.7,3.9,3.10, 3.13, 3.15,3.16, 3.20, 3.21, 3.22,3.28	13
41	**Tisangi** Tal. P'pur Dist. Solapur	1966	74° 10'05" 17°35'00"	19.00	2.446	300	**MH09MH. 0124**	13.5.2021 Not received	3.1, 3.5, 3.7, 3.9, 3.33.	5
42	**Wadgaon** Tal.Khandala Dist. Satara	1980	75°55'00" 18°15'00"	21.70	2.97	638.45	**MH09MH. 0835**	15.5.2021 Not received	3.1, 3.5, 3.7, 3.9, 3.13, 3.20, 3.16, 3.19, 3.21, 3.28	10
43	**Naigaon** Tal.Khandala Dist. Satara	1983	73°58'05" 18°06'10"	18.0	1.34	396.29	**MH09MH. 0986**	15.5.2021 Not received	3.6,3.7, 3.13, 3.19, 3.20, 3.21,	6
(e) Executive Engineer, Chaskaman Irrigation Division, Pune										
44	**Alegaonpaga** Tal. **Shirur**, Dist.Pune	1961	74° 20'30" 18°38'00"	15.24	2.03	695	**MH09MH 0264.**	23.5.2021 12.11.2021	3.1, 3.2, 3.9, 3.13, 3.16, 3.19, 3.20, 3.21	8

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	11
45	**Dahiwadi** TalShirur Dist .Pune	1973	74°18'00" 18°42'00"	13.74	1.35	567.0	**MH09MH 0371**	23.5.2021 12.11.2021	3.6, 3.7, 3.9, 3.13, 3.17, 3.19, 3.20, 3.25, 3.34	11
46	**Kadus** Tal. Khed Dist .Pune	1986	73°55'00″ 18°56'00	16.65	2.63	607.30	**MH09MH 1126**	23.5.2021 18.11.2021 Test Inspected by DSO 22.10.2021	3.1, 3.2, 3.5, 3.7, 3.9, 3.13, 3.16, 3.19, 3.20, 3.21,3.22, 3.25	12
47	**Nimgaon Mhalungi** Tal. Shirur Dist. Pune	1971	74° 12'30" 18° 43'30"	17.30	3.37	980	**MH09MH 0993**	23.5.2021 12.11.2021	3.1,3.2, 3.6, 3.7, 3.9, 3.13,3.17, 3.19,3.20, 3.25,3.34	9
(2)) Superintending Engineer, Pune Irrigation Project Circle, Pune										
(a) Executive Engineer ,BhamaAskhed Dam Division, Pune										
48	Palsunde Tal.AkoleDist.A.Nagar	2018	74°02′00" 19°50′00"	25.00	2.442	300.16	Proposed for NRLD	Not received 12.11.2021	3.20, 3.24, 3.26	3
(3) Superintending Engineer, Sangli Irrigation Circle, Sangli										
(a)Executive Engineer SangliIrrigation Division, Sangli										
49	**Antri** Tal. Shirala Dist. Sangli	1991	74°05′00" 17°02′00"	22.79	2.82	235	**MH09MH 1215**	23.5.2021 29.11.2021	3.1, 3.2,3.16, 3.13, 3.20, 3.28,3.35	7
50	**Bassappawadi** Tal. K'mahankal Dist. Sangli	1981	74° 00'00" 17°02'00"	16.90	7.78	1386	**MH09MH. 0900**	4.5.2021 3.12.2021	3.1, 3.2, 3.5, 3.34, 3.22, 3.21, 3.13, 3.33	8
51	**Bhiwargi** Tal. Jath Dist. Sangli	2001	73°31′50" 17°25′00"	15.85	11.2	22.35	**MH09MH. 1597**	28.5.2021	3.1, 3.2, 3.9, 3.13, 3.20, 3.22, 3.33, 3.34, 3.35	9
52	**Bhose** Tal. Miraj Dist Sangli	1974	74°44′00" 16°57′00"	15.18	1.03	160	**MH09MH. 0404**	4.5.2021 3.12.2021	3.1, 3.2, 3.13, 3.20, 3.21, 3.22	6

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
53	**Birnal** Tal. Jath Dist. Sangli	1977	75°20′00” 17°4′50”	18.60	2.433	528	**MH09MH. 0637**	2.12.2021 Test Inspected by DSO 28.1.2022	3.1,3.2,3.5, 3.7,3.9,3.13,3.16,3.20	8
54	**Daribadachi** Tal. Jath Dist. Sangli	2010	75°24′00” 17°02′28”	15.38	1.87	674.79	**MH09MH 2254**	14.12.2021 Test Inspected by DSO 29.1.2022	3.1, 3.2, 3.5,3.6,3.7, 3.9,3.13, 3.20	8
55	**Doddanalla** Tal. Jath Dist. Sangli	1986	75°30′32” 17°13′00”	16.20	6.50	1211	**MH09MH. 1136**	14.12.2021 Test Inspected by DSO 29.1.2022	3.1,3.2,3.5,3.6, 3.9,3.13,3.20,3.22	8
56	**Dudhebhavi** Tal. Kavathemahankal Dist. Sangli	1983	75°15′00” 17°09′37”	19.33	3.98	568	**MH09MH. 0996**	3.12.2021 Test Inspected by DSO 29.1.2022	3.13.2,3.5,3.6,3.7,3.13,3.21, 3.22	8
57	**Karve** Tal. Walawa Dist. Sangli	1974	74°11′00” 16°57′04”	16.86	1.64	90	**MH09MH. 0395**	25.5.2021 29.11.2021	3.2, 3.5, 3.6, 3.13, 3.20, 3.22, 3.35,3.16	8
58	**Nangole** Tal. Kavathemahankal Dist. Sangli	1978	74°35′45” 17°01′00”	15.45	1.85	280	**MH09MH. 0700**	4.5.2021 3.12.2021	3.2, 3.5, 3.13, 3.20	4
59	**Pratappur** Tal. Jath Dist. Sangli	1987	75°04′00” 17°09′25”	16.90	1.66	657.09	**MH09MH. 1165**	2.12.2021 Test Inspected	3.1,3.2, 3.5,3.7,3.9,3.13, 3.19, 3.20,3.21, 3.35, 3.33,3.22	12

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
								by DSO 28.1.2022		
60	**Raywadi** Tal. Kmahankal Dist. Sangli	1976	74° 54'00" 17°17'00"	20.35	2.16	523	**MH09MH. 0586**	4.5.2021 3.12.2021	3.1,3.2, 3.5, 3.13, 3.16, 3.20, 3.35	7
61	**Revnal** Tal. Jath Dist. Sangli	1978	75°12'15" 17°06'30"	18.60	2.37	174	**MH09MH. 0679**	18.5.2021 2.12.2021	3.1, 3.2, 3.5, 3.6,3.13,3.16,3.20,3.21	8
62	**Sankh** Tal. Jath Dist. Sangli	1995	75°32'00" 17°15'00"	17.66	19.93	3228	**MH09MH. 1382**	4.6.2021 14.12.2021	3.1, 3.2, 3.9, 3.13, 3.20, 3.34	6
63	**Sanmadi** Tal. Jath Dist. Sangli	1979	74°20'00" 17°16'00"	17.46	1.98	529	**MH09MH. 0796**	11.5.2021 14.12.2021	3.5, 3.6, 3.7, 3.9, 3.13, 3.20	6
64	**Shegaon** Tal. Jath Dist. Sangli	1975	75°09'15" 17°09'02"	19.82	8.08	1274	**MH09MH. 0529**	2.12.2021 Test Inspected by DSO 29.1.2022	3.1, 3.2 3.5, 3.6, 3.9, 3.13, 3.20,3.21, 3.22	9
65	**Shivani** Tal. Shirala Dist. Sangli	1991	74°05'30" 17°00'00"	16.23	1.69	132	**MH09MH. 1263**	25.5.2021 29.11.2021	3.1, 3.2, 3.13, 3.16,3.22, 3.20, 3.28,3.35	8
66	**Siddhnath** Tal. Jath Dist. Sangli	1981	75°20'25" 16°45'30"	18.96	8.58	1530	**MH09MH. 0654**	11.5.2021 14.12.2021	3.1, 3.2, 3.6, 3.7, 3.13, 3.19, 3.20, 3.34	8
67	**Soardi** Tal. Jath Dist. Sangli	1983	75°22'30" 17°03'05"	18.08	4.40	921	**MH09MH. 1002**	11.5.2021 14.12.2021	3.2, 3.5,3.7,3.13, 3.20, 3.21, 3.34, 3.35	8
68	**Takave** Tal. Shirala Dist. Sangli	1989	74°07'00" 17°05'00"	24.81	2.97	283.50	**MH09MH. 1217**	25.5.2021 29.11.2021	3.1,3.2, 3.13, 3.20, 3.22, 3.28, 3.35,3.16	8

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
69	**Tippehalli** Tal. Jath Dist. Sangli	**1975**	74°4'00'' 17°8'00''	18.12	2.02	578	**MH09MH 0513**	18.5.2021 2.12.2021	3.1, 3.2, 3.6, 3.7, 3.9, 3.13, 3.35, 3.21, 3.34,3.16	10
70	**Umrani** Tal. Jath Dist. Sangli	1999	75°30'00" 17°30'00"	15.33	4.23	509	**MH09MH. 1512**	28.5.2021 14.12.2021	3.2,3.5, 3.6, 3.7, 3.9, 3.13, 3.19	7
71	**Wakurde** Tal. Shirala Dist. Sangli	1985	70°02'00" 17°03'30"	19.25	1.61	156.10	**MH09MH. 1073**	25.5.2021 29.11.2021	3.1,3.2,3.6,3.20 , 3.13, 3.35,3.22	7
72	**Walekhind** Tal. Jath Dist. Sangli	1973	75°07'32" 17°13'32"	16.18	4.13	41	**MH09MH. 0322**	18.5.2021 2.12.2021	3.1, 3.2, 3.5, 3.21, 3.13, 3.22, 3.20	7
73	**Yelavi** Tal. Khanapur Dist. Sangli	**1975**	74°20'00'' 17°30'00''	**15.90**	**2.26**	639	**MH09MH 0514**	11.5.2021	3.9, 3.2, 3.5, 3.6, 3.7, 3.13, 3.20, 3.16, 3.35	9
(b) Executive Engineer Tembhu Lift Irrigation Project Management Division Ogalewadi										
74	**Anjani** Tal.Tasgaon Dist. Sangli	1970	74°02'00" 17°04'00"	15.00	2.09	14.27	**MH09MH. 0230**	27.5.2021 20.10.2021	3.1, 3.5, 3.7, 3.9,3.10, 3.13, 3.16, 3.22, 3.34, 3.35,3.28	11
75	**Arjunwadi** Tal. Atpadi Dist. Sangli	2005	74°51'00" 17°17'00"	17.94	2.352	739.0	**MH09MH 1609**	7.4.2021 4.10.2021	3.5, 3.7, 3.9, 3.13, 3.20, 3.22, 3.21, 3.28, 3.6,3.16	10
76	**Atpadi** Tal. Atpadi Dist. Sangli	1972	74°55'00" 17°24'00"	16.50	8.67	1727	**MH09MH. 0314**	6.5.2021 30.10.2021	3.1, 3.2, 3.5, 3.7, 3.9,3.13 ,3.16,3.20, 3.21, 3.6, 3.22, 3.34	12
77	**Bhakuchiwadi** Tal Khanapur Dist. Sangli	1989	74°23'00" 17°21'00"	19.20	7.40	150	**MH09MH. 1211**	24.4.2021 9.11.2021	3.1, 3.5, 3.7, 3.9, 3.10, 3.20, 3.21,3.34, 3.35	9
78	**Bhambarde** Tal.Khanapur Dist. Sangli	1972	74°35'00" 17°19'00"	22.00	1.32	391	**MH09MH. 0295**	24.4.2021 9.11.2021	3.5, 3.7, 3.9, 3.20,3.21, 3.35	6
79	**Buddhihal** Tal.Mangalwedha Dist. Solapur	1966	74°59'54" 17°18'30''	18.52	19.03	2510	**MH09MH 0134**	23.4.2021 12.10.2021	3.2,3.5, 3.7, 3.9, 3.13, 3.20,3.21, 3.22, 3.34, 3.35,	13

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
								Test Inspected by DSO 29.1.2022	3.6, 3.19,3.16	
80	**Dighnchi** Tal. Atpadi Dist. Sangli	1976	74°55′30” 17°24′30”	15.80	4.00	1301	**MH09MH. 0591**	6.5.2021 30.10.2021	3.1, 3.5, 3.7, 3.9, 3.10, 3.13, 3.9, 3.20, 3.22, 3.21, 3.34, 3.6	12
81	**Ghanand** Tal. Atpadi Dist. Sangli	1986	74°44′00” 17°44′30”	15.46	1.44	341	**MH09MH. 1120**	7.4.2021 4.10.2021	3.1,3.2, 3.5, 3.6,3.7, 3.9, 3.13, 3.20, 3.21,3.22,3.28,3.31,3.34	13
82	**Hingangaon** Tal.KadegaonDist. Sangli	1998	74°12′00” 17°55′00”	16.02	2.01	156	**MH09MH. 1462**	22.4.2021 8.11.2021	3.2, 3.5,3.13, 3.19, 3.20 , 3.34, 3.35	7
83	**Jambhulani** Tal. Atpadi Dist. Sangli	1975	74°60′00” 17°34′00”	15.87	2.85	668	**MH09MH. 0517**	7.4.2021 4.10.2021	3.1, 3.5, 3.7, 3.9, 3.10, 3.13, 3.16,3.20, 3.22, 3.34, 3.21, 3.6, 3.28	13
84	**Kacharewasti** Tal. Jath Dist. Sangli	1974	75°51′00” 17°21′20”	18.75	3.13	973	**MH09MH. 0447**	7.4.2021 4.10.2021	3.2, 3.5, 3.7, 3.9, 3.13, 3.35, 3.20, 3.21,3.28	9
85	**Kadegaon** Tal. Kadegaon Dist. Sangli	1975	74°16′00” 17°16′00”	17.54	2.36	508.70	**MH09MH. 0510**	22.4.2021 8.11.2021	3.1, 3.2, 3.5, 3.7, 3.9, 3.13, 3.35, 3.20	8
86	**Karandewadi** Tal. Kadegaon Dist. Sangli	1995	74°17′12” 17°22′00”	18.45	1.36	39.45	**MH09MH. 1348**	22.4.2021 8.11.2021	3.1, 3.5, 3.7, 3.13, 3.21, 3.35, 3.20	7
87	**Lodhe** Tal.Tasgaon Dist. Sangli	1996	74°40′00” 17°05′00”	16.76	4.63	1593	**MH09MH. 1412**	27.5.2021 20.10.2021	3.1,3.5,3.7, 3.10, 3.2, 3.20, 3.22, 3.21,3.28,3.31,3.9, 3.13, 3.35, 3.34, 3.19	15
88	**Morale** Tal. Tasgaon Dist. Sangli	1974	74°42′09” 17°11′43”	16.10	0.65	141.0	**MH09MH. 0239**	2.5.2021 29.10.2021	3.1,3.2,3.5,3.6,3.7,3.9.3.10,3.13,3.20,3.21,3.22,3.28,3.31.3.34 ,3.35,	15
89	**Nhavi**	1981	74°15′20”	17.48	2.19	314.0	**MH09MH.**	22.4.2021	3.2, 3.7, 3.13, 3.16, 3.19,	11

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
	Tal. Kadegaon Dist. Sangli		17°15′20”				**1050**	8.11.2021	3.20, 3.21, 3.22, 3.34, 3.35, 3.33	
90	**Nimbawade** Tal. Atpadi Dist. Sangli	1986	74°52′30” 17°28′00”	16.13	6.68	1233	**MH09MH. 1187**	6.5.2021 30.10.2021	3.2, 3.6,3.7, 3.9, 3.13, 3.20, 3.21,3.22,3.28, 3.31,3.34	10
91	**Pare** Tal. Khanapur Dist. Sangli	1973	74°35′00” 17°12′00”	18.73	34.16	4081.0	**MH09MH 0296**	24.4.2021 9.11.2021	3.2, 3.13, 3.19, 3.21, 3.20 , 3.34, 3.35, 3.31	8
92	**Ped** Tal. Tasgaon Dist. Sangli	1972	74°40′08” 17°12′05”	19.04	1.57	158	**MH09MH. 0272**	2.5.2021 29.10.2021	3.1, 3.2, 3.5, 3.7, 3.9, 3.13, 3.16, 3.20, 3.21, 3.34, 3.31, 3.35	12
93	**Punadi** Tal. Tasgaon Dist. Sangli	1987	74°37′00” 17°30′00”	17.00	1.414	225	**MH09MH. 1156**	27.5.2021 20.10.2021	3.1,3.5, 3.6,3.7,3.9, 3.13, 3.16,3.20,3.21, 3.22, 3.28,3.31,3.34,3.35	14
94	**Shalgaon** TalKadegaon Dist. Sangli	1976	74°00′00” 17°07′00”	15.00	2.287	406	**MH09MH. 0578**	22.4.2021 8.11.2021	3.2, 3.5, 3.35,3.20	4
95	**Siddhewadi** Tal. Tasgaon Dist. Sangli	1977	74°06′00” 17°60′00”	18.81	6.43	1571	**MH09MH. 0902**	27.5.2021 20.10.2021	3.1, 3.2,3.5,3.6,3.7, 3.9, 3.13,3.16, 3.19, 3.22,3.20,3.21,3.28 3.34, 3.35	15
96	**Vejegaon** Tal.Khanapur Dist. Sangli	1979	74°36′00” 17°23′00”	16.77	2.21	426	**MH09MH. 0782**	24.4.2021 9.11.2021	3.2, 3.5, 3.9, 3.35, 3.20,3.21,3.22	7
97	**Vibhutewadi** Tal. Atpadi Dist. Sangli	1983	73°30′00” 17°28′30”	16.21	1.32	16.62	**MH09MH. 1013**	6.5.2021 30.10.2021	3.2, 3.5, 3.7,3.10,3.9, 3.13, 3.20, 3.22, 3.34, 3.21, 3.28, 3.6	12
98	**Walunj** Tal. Jath Dist. Sangli	1977	74°00′37” 17°00′19”	17.81	1.69	475	**MH09MH. 0635**	24.4.2021 9.11.2021	3.2,3.5, 3.7, 3.9, 3.35, 3.21, 3.20,	7
99	**TalgaonGhogaon** Tal. Khanapur Dist. Sangli	1984	74°11’00” 17°00’00”	21.18	56.26	475	**MH09MH 0635**	30.4.2021 1.11.2021	3.1, 3.2, 3.5, 3.7, 3.9, 3.13, 3.35, 3.19, 3.20, 3.21,3.22,	12

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
									3.31	
100	**Mahadikwadi** Tal. Atpadi Dist. Sangli	2003	74°40′00” 17°11′00”	16.02	2.10	789.38	**MH09MH 1547**	6.5.2021 30.10.2021	3.1, 3.2, 3.7, 3.5, 3.9,3.10, 3.13, 3.16, 3.20, 3.21, 3.22, 3.35, 3.28, 3.6	14
(d) Executive Engineer Takari Pump House Division No.1, Devarashtre										
101	**Chinchani** Tal.Kadegaon Dist. Sangli	1989	73°31′50” 17°20′00”	17.46	4.31	628	**MH09MH. 1222**	6.1.2021 30.11.2021	3.1, 3.2, 3.5,3.7, 3.9, 3.13, 3.20, 3.22, 3.23, 3.28,3.34	11
(4) Superintending Engineer, Kolhapur Irrigation Circle, Kolhapur										
(a) Executive Engineer, Kolhapur Irrigation Division (North), Kolhapur										
102	**Andur** Tal. Gadhinglaj Dist. Kolhapur	1982	73°58′00” 16°36′00”	24.51	5.75	98.0	**MH09MH. 0914**	12.5.2021 24.10.2021	3.2, 3.7, 3.9, 3.13, 3.16,3.20, 3.22, 3.31,3.34	9
103	**Kandalgaon** Tal. Gadhinglaj Dist. Kolghapur	1980	74°20′00” 16°40′00”	19.41	1.70	98	**MH09MH. 0811**	15.5.2021 20.10.2021	3.2,3.5, 3.7, 3.9, 3.13, 3.20, 3.21, 3.34, 3.31.	9
104	**Kaneriwadi** Tal. Gadhinglaj Dist. Kolhapur	1974	74°17′05” 16°37′47”	17.5	2.60	182	**MH09MH. 0408**	15.5.2021 20.10.2021	3.2, 3.5, 3.9, 3.13, 3.20, 3.22,	6
105	**Kasarde** Tal.Gadhinglaj Dist. Kolhapur	2009	74°51′00” 16°55′30”	29.85	4.416	268.8	**MH09MH 1908**	17.5.2021 24.11.2021	3.13,3.20, 3.22, 3.31	4
106	**Keaskarwadi** Tal. Shahuwadi Dist. Kolhapur	1998	73°30′00” 16°49′00”	26.28	5.67	52.85	**MH09MH. 1452**	10.5.2021 24.11.2021	3.7, 3.9, 3.13, 3.22, 3.20, 3.21.	6
107	**Khandwan** Tal.Shahuwadi Dist. Kolhapur	2000	73°32′30” 17°02′45”	29.86	5.59	119	**MH09MH. 1548**	17.5.2021 2.11.2021	3.1,3.2 3.13, 3.35, 3.20, 3.25,3.31,3.33	8
108	**Kode** Tal. Gadhinglaj	1989	73°52′00” 16°28′00”	24.77	6.06	234	**MH09MH. 1224**	12.5.2021 24.10.2021	3.7, 3.9, 3.16,3.25, 3.20, 3.31	6

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
	Dist. Kolhapur									
109	**Kumbhawade** Tal. Shahuwadi Dist. Kolhapura	1999	73 °46'00" 16 °47'00"	25.16	5.615	141	**MH09MH. 1499**	10.5.2021 24.11.2021	3.1,3.6,3.7,3.9,3.13, 3.16,3.35,3.20, 3.21, 3.22,3.25	11
110	**Manpadale** Tal. Gadhinglaj Dist. Kolhapur	1971	74°13'00" 16°48'00"	20.80	1.43	37	**MH09MH. 0234**	15.5.2021 2.10.2021	3.5, 3.7, 3.20,3.21 ,3.31	5
111	**Nandari** Tal. Shahuwadi Dist. Kolhapur	1999	73°57'00" 16°47'00"	26.40	3.208	99.5	**MH09MH. 1497**	10.5.2021 24.11.2021	3.1,3.5, 3.13, 3.20, 3.22, 3.6	6
112	**Olwan** Tal. Gadhinglaj Dist. Kolhapur	1996	74°52'00" 16°23'00"	24.740	1.875	157	**MH09MH. 1389**	19.4.2021 9.11.2021	3.5, 3.7, 3.13, 3.16, 3.20, 3.21, 3.22, 3.31	8
113	**Padsali** Tal. Gadhinglaj Dist. Kolhapur	1997	74°50'50" 16°42'00"	29.15	6.90	186	**MH09MH. 1427**	10.5.2021 24.11.2021	3.1, 3.7, 3.9, 3.13, 3.16,3.20, 3.21, 3.22	8
114	**Pombre** Tal. Panhala Dist. Kolhapur	1985	73°50'15" 18°42'35"	24.11	6.50	235	**MH09MH. 1078**	10.5.2021 24.11.2021	3.7, 3.1, 3.9, 3.13, 3.22, 3.20, 3.21	7
115	**Vesraf** Tal. Gaganbavda Dist. Kolhapur	1984	73°52'00" 16°35'00"	19.21	3.37	106	**MH09MH. 1026**	12.5.2021 24.10.2021	3.7, 3.9, 3.13, 3.20, 3.22	6
116	**Manoli** Tal. Gadhinglaj Dist. Kolhapur	2000	74 ° 45' 30" 16° 55' 30"	29.50	5.196	222.35	**MH09MH 1537**	17.5.2021 24.11.2021	3.5, 3.13, ,3.31	3
117	**DaryachiVadgaon** Tal. Chandgad Dist. Kolhapur	1993	74°00' 16°36'	23.65	0.8473	59.22	**MH09MH 1302**	15.5.2021 20.10.2021	3.13, 3.31	2

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
(b) Executive Engineer, Kolhapur Irrigation Division (South), Kolhapur										
118	**Benikre** Tal. Gadhinglaj Dist. Kolhapur	1973	74°14′00” 16°24′00”	20.99	1.82	No spilway	**MH09MH 0320**	12.5.2021 23.11.2021	3.1,3.2, 3.5,3.7,3.9, 3.13, 3.35, 3.34, 3.21, 3.6	10
119	**Dhangarwadi** Tal. Ajara, Dist. Kolhapur	1999	74°05’ 09” 16°02’30”	18.22 m	2.64	301	**MH09MH 1506**	23.4.2021 11.12.2021	3.1,3.9, 3.21, 3.27, 3.31, 3.34, 3.13	7
120	**Dindalkop** Tal. Gadhinglaj Dist. Kolhapur	*2014*	74°25′30” 15°45′45”	27.61	2.625	183.76	**MH09MH. 1925**	7.12.2021 7.12.2021	3.1, 3.9, 3.13, 3.35, 3.16, 3.19, 3.20, 3.21, 3.28	9
121	**Erandol** Tal.MangalwedhaDist. Solapur	1999	74°11′00” 16°03′00”	30.55	4.210	586.34	**MH09MH. 1514**	26.4.2021 30.11.2021	3.1,3.2, 3.6,3.9, 3.13, 3.16,3.23	7
122	**Hanbarwadi** Tal.Kagal Dist. Kolhapur	1998	74°16′00” 16°18′00”	26.65	2.67	207	**MH09MH. 1465**	12.5.2021 23.11.2021	3.1,3.2,3.5, 3.6, 3.9, 3.13, 3.20,3.22,3.34	9
123	**Here** Tal. Gadhinglaj Dist. Kolhapur	1998	74’10′00” 15°52′30”	27.32	3.926	72	**MH09MH. 1456**	7.5.2021 30.11.2021	3.1, 3.9, 3.13, 3.16, 3.21, 3.20, 3.28	7
124	**Jelugade** Tal.Chandgad Dist. Kolhapur	2000	74°13′40” 15°52′30”	29.25	4.86	140.35	**MH09MH. 1534**	26.4.2021 21.11.2021	3.1, 3.9, 3.13, 3.35, 3.19, 3.16, 3.21, 3.20, 3.28	9
125	**Kalasgade** Tal.Gadhinglaj Dist. Kolhapur	2000	74°13′30” 16°49′30”	16.46	1.91	119	**MH09MH. 1532**	26.4.2021 21.11.2021	3.1,3.9, 3.13, 3.16, 3.19, 3.20, 3.21, 3.28. 3.35	9
126	**Karambali** Tal. Gadhinglaj Dist. Kolghapur	2007	74°17′30” 16°12′00”	27.44	2.91	90.72	**MH09MH. 1667**	19.4.2021 23.11.2021	3.1,3.6, 3.7, 3.9, 3.13, 3.21, 3.28.	7
127	**Karanjgaon** Tal. Chandgad Dist. Kolhapur	1998	74°14’00” 16°54’00”	29.81	3.50	64	**MH09MH. 1454**	7.5.2021 21.11.2021	3.1,3.6, 3.9, 3.13, 3.16, 3.19, 3.20, 3.21, 3.28	9

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
128	**Karanjwane** Tal. Kagal Dist. Kolhapur	1989	74°14'00" 16°21'00"	21.00	1.51	124	**MH09MH. 1209**	12.5.2021 23.11.2021	3.1,3.2, 3.5,3.6, 3.7, 3.9, 3.13, 3.35, 3.34, 3.21	10
129	**Khadakohol** Tal. Chandgad Dist. Kolhapur	1999	74° 16'00" 15° 54'00"	16.42	1.82	157	**MH09MH. 1502**	26.4.2021 21.11.2021	3.1, 3.9, 3.13, 3.19, 3.16, 3.20, 3.31, 3.35	8
130	**Khanapur** Tal. Gadhinglaj Dist. Kolhapur	1988	74°10'00" 16°05'00"	21.35	0.84	38	**MH09MH. 1177**	26.4.2021 11.12.2021	3.9, 3.13, 3.31	3
131	**Kitwad** Tal.Chandgad Dist. Kolhapur	2000	75°25'00" 15°58'00"	29.59	5.53	611	**MH09MH. 1543**	15.5.2021 21.11.2021	3.6, 3.9, 3.13, 3.19, 3.16, 3.35, 3.20, 3.21, 3.28.	9
132	**Kumari** Tal. Gadhinglaj Dist. Kolhapur	1998	74°18'00" 15°30'00"	23.64	2.59	94	**MH09MH. 1457**	18.5.2021 28.10.2021	3.1, 3.6, 3.9, 3.13, 3.19, 3.16, 3.35, 3.20,3.21, 3.28.	10
133	**Narewadi** Tal. Gadhinglaj Dist. Kolhapur	1981	74°08'30" 16°25'30"	23.75	2.22	282	**MH09MH. 0871**	18.5.2021 28.10.2021	3.1, 3.9, 3.13, 3.28,3.21, 3.27	6
134	**Nittur-2** Tal. Gadhinglaj Dist. Kolhapur	2000	74°22'30" 15°44'54"	28.04	4.38	90.65	**MH09MH. 1530**	15.5.2021 7.12.2021	3.1, 3.6, 3.9, 3.13, 3.19, 3.16, 3.20,3.21, 3.27, 3.28	10
135	**Patane** Tal. Chandgad Dist. Kolhapur	2001	73°13'30" 15°51'15"	26.82	4.55	78.7	**MH09MH. 1563**	7.5.2021 21.11.2021	3.1, 3.6, 3.9, 3.13, 3.19, 3.16, 3.20,3.21, 3.27, 3.28	10
136	**Shendri** Tal. Gadhinglaj Dist. Kolhapur	1981	74°21'00" 16°16'00"	21.14	1.81	130	**MH09MH. 0853**	19.4.2021 23.11.2021	3.1, 3.5, 3.6, 3.9, 3.13,3.16, 3.21, 3.27, 3.28	9
137	**Sundi** Tal. Chandgadj Dist. Kolhapur	2009	74°22'00" 15°16'00"	27.00	2.594	169.05	**MH09MH. 1910**	15.5.2021 7.12.2021	3.1, 3.6, 3.9, 3.13,3.16, 3.19, 3.20, 3.35, 3.28, 3.21, 3.27	11
138	**Terani** Tal. Gadhinglaj Dist. Kolhapur	1996	74°28'00" 16°8'00"	20.66	3.476	516	**MH09MH. 1399**	18.5.2021 28.10.2021	3.7, 3.9, 3.13, 3.28, 3.27, 3.21, 3.6, 3.1	8

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
139	**Vairagwadi** Tal. GadhinglajDist.Kolghapur	1984	74°20′30” 16°09′30”	20.34	1.50	96	**MH09MH. 1022**	18.5.2021 28.10.2021	3.1, 3.6, 3.9, 3.13,3.21, 3.7, 3.27, 3.31, 3.28	9
140	**Yenechavandi** Tal.Gadhinglaj, Dist. Kolhapur	1996	74°20’ 16° 11’	21.65	1.545	182	**MH09MH 1339**	18.5.2021 28.10.2021	3.1, 3.6, 3.7, 3.9, 3.13, 3.21, 3.20, 3.28	8
(5)Superintending Engineer, Satara Irrigation Circle, Satara										
(a) Executive Engineer, Krishna Irrigation Division, Satara										
141	**Andhali** Tal. Man Dist. Satara	1997	74° 30’00” 17° 45’00”	18.60	9.273	1422.0	**MH09MH. 1443**	10.5.2021 28.12.2021	3.1,3.2,3.5,3.7,3.9,3.10,3.13,3.16,3.20,3.21,3.22	11
142	**Arabwadi** Tal.Koregaon Dist.Satara	1977	74°04’ 50” 17°50’ 07”	17.35	1.89	246	**MH09MH. 0621**	5.5.2021 28.12.2021	3.1,3.5,3.7, 3.10,3.13, 3.20,3.21,3.22	8
143	**Daruj** Tal. Khatav Dist. Satara	1956	74° 25’00” 17°40’00”	16.46	2.88	364	**MH09MH. 0074**	17.5.2021 27.12.2021	3.2,3.5,3.7,3.9,3.10,3.13,3.16, 3.19,3.20	9
144	**Dhakani** Tal. Man Dist. Satara	1994	74° 41’00” 17°35’00”	18.50	3.05	602	**MH09MH. 1335**	10.5.2021 28.12.2021	3.2,3.5,3.9,3.10,3.13,3.16, 3.20,3.21,3.22,3.23	10
145	**Hiware** Tal.Koregaon Dist. Satara	1974	74° 11’00” 17°50’00”	18.14	2.74	657	**MH09MH. 0443**	5.5.2021 28.12.2021	3.1,3.5, 3.13,3.16,3.20,3.21	6
146	**Jambhulani** Tal. Man Dist. Satara	1981	74° 60’00” 17° 34’00”	15.21	2.41	514.00	**MH09MH. 0516**	10.5.2021 28.12.2021	3.2,3.5,3.9,3.13,3.16, 3.20,3.21	7

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
147	**Kumathe** Tal.Satara Dist. Satara	2001	73°52′00” 17°26′00”	27.13	2.86	143.00	**MH09MH. 1682**	4.5.2021 2.12.2021	3.1,3.7,3.9,3.13,3.16,3.19,3.20, 3.21, 3.22,3.23	10
148	**Mandawe** Tal.Koregaon Dist. Satara	1994	73°59′00” 17°34′00”	19.50	1.15	229	**MH09MH. 1323**	4.5.2021 2.12.2021	3.1,3.7, 3.13,3.16,3.20,3.21,3.22	7
149	**Masalwadi** Tal. Man Dist. Satara	1975	74° 50’30” 17°40’00”	14.30	2.41	839.94	**MH09MH. 0377**	10.5.2021 28.12.2021	3.2,3.5,3.7,3.9,3.13,3.16,3.19,3 .20,3.21, 3.23, 3.34	11
150	**Mayani** Tal. Khatav Dist. Satara	1872	74° 34’00” 17°26’00”	18.00	1.46	1384	**MH09MH. 0008**	17.5.2021 27.12.2021	3.2, 3.7, 3.9, 3.10, 3.13, 3.20, 3.21, 3.23, 3.28.	9
151	**Nandwal** Tal. Koregaon Dist. Satara	2008	74° 11’00” 16°37’10”	18.78	09.39	39.2	**MH09MH. 1640**	5.5.2021 28.12.2021	3.4,3.5,3.7,3.9,3.16,3.20, 3.21,3.22	8
152	**Ner** Tal. Khatabv Dist. Satara	1981	74° 18’00” 17°44’00”	22.50	9.12	1478	**MH09MH. 0018**	17.5.2021 27.12.2021	3.1,3.2,3.5,3.7,3.9,3.10,3.13,3.16, 3.20,3.21, 3.23,3.25,3.34	13
153	**Pingali** Tal. Man Dist. Satara	1878	74° 33’00” 17°41’00”	16.00	2.38	811	**MH09MH. 0731**	10.5.2021 28.12.2021	3.1,3.2,3.5,3.7,3.9,3.10,3.13, 3.19,3.20,3.21,3.23,3.25,3.34	13
154	**Ranand** Tal. Man Dist. Satara	1956	74° 40’00” 17° 43’00”	19.32	7.12	1168.7	**MH09MH. 0078**	10.5.2021 28.12.2021 Test Inspected by DSO 30.1.2022	3.2,3.5,3.7,3.9,3.13,3.16,3.19 3.20,3.21 3.22,3.23	11
155	**Yeralwadi** Tal.Khatav Dist.Satara	1973	74°29′35” 17°31′24”	19.50	32.80	2083	**MH09MH. 0386**	7.5.2021 28.12.2021	3.5,3.9,3.13,3.16,3.19,3.22,3.29,3. 34	8
156	**Kankatrewadi** Tal. Phaltan Dist. Satara	1978	74°35′00” 17°29′00”	19.51	1.24	1283	**MH09MH0 736**	17.5.2021 27.12.2021	3.2,3.7,3.9,3.10,3.13,3.16,3.19, 3.20,3.21	9

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
157	Name :**Thoseghar** Tal. Satara Dist. Satara	1989	73°52′00” 17°36′00	18.05	1.91	113	**MH09MH 1208**	4.5.2021 2.12.2021	3.2,3.5,3.10,3.13,3.16,3.19, 3.20, 3.22.	8
158	**Deur** Tal Koregaon Dist. Satara	1994	74°08′00” 17°54′00”	18.60	1.856	475	**MH09MH. 1329**	29.5.2021 6.12.2021	3.1,3.2,3.7,3.9,3.13,3.20,3.21,3 .30	8
(b) Executive Engineer, Koyna Irrigation Division Koynanagar										
159	**Chalkewadi** Tal. Patan Dist. Satara	1991	74°05′00” 17°11′00”	21.53	0.80	39	**MH09MH. 1258**	18.5.2021 26.11.2021	3.7,3.9,3.10,3.13,3.16,3.20,3.2 2, 3.31,3.34,3.35	10
160	**Chaphal** Tal.Koregaon Dist. Satara	1983	74°00′28” 17°24′24”	21.50	1.45	229	**MH09MH. 0966**	20.5.2021	3.1,3.2,3.5,3.7,3.13,3.16,3.19,3 .20,3.21,3.22	10
[A] Chief Engineer (S.P) Water Resources Department Pune										
(1) Superintending Engineer Kukadi Irrigation Circle Pune										
(a) Executive Engineer ,Kukadi Irrigation Division No. 1 Narayangaon										
161	**Anepemdara** Tal. Junnar, Dist. Pune	1998	73° 14’00” 19° 11’00”	14.34	2.09	545	**MH09LH. 1473**	21.5.2021 24.11.2021	3.2,3.7,3.9,3.10,3.13,3.16, 3.20,3.21,3.34	9
162	**Ballalwadi** Tal. Junnar, Dist. Pune	1996	73° 55’30” 19° 15’00”	20.16	1.95	1968	**MH09MH. 1414**	4.6.2021 24.11.2021 Test Inspected by DSO 22.10.2021	3.1,3.2,3.5,3.7,3.9,3.10,3.13,3. 16, 3.19,3.20,3.22,3.34	12
163	**Ghangaldara** Tal. Junnar, Dist. Pune	2009	74° 00’00” 18° 20’00”	26.34	2.34	152.88	**MH09MH. 1906**	20.5.2021 26.11.2021	3.5,3.7,3.9,3.10,3.13,3.25	6
164	**Gohe** Tal. Ambegaon, Dist. Pune	1996	73° 44’00” 19° 04’00”	17.49	1.28	338	**MH09MH. 1397**	22.6.2021 27.11.2021	3.2,3.5,3.7,3.9,3.10,3.13,3.19,3 .22	8

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
165	**Otur - waghadara** Tal. Junnar Dist. Pune	1992	74° 02'00" 19° 05'00"	20.16	0.953	137.3	**MH09MH. 1262**	19.5.2021 24.11.2021 Test Inspected by DSO 22.10.2021	3.1,3.2,3.5,3.7,3.9,3.10,3.13,3.20, 3.16, 3.33,3.34,3.22	12
166	**Parunde** Tal. Junnar, Dist. Pune	1989	73° 47'30" 19° 09'45"	20.02	1.92	146	**MH09MH. 1210**	4.6.2021 24.11.2021	3.7,3.9,3.10,3.13,3.16,3.20, 3.21,3.33,3.34	9
167	**Ramjewadi** Tal. Junnar, Dist. Pune	1983	73° 41'00" 19° 13'00"	21.48	1.72	209	**MH09MH. 0965**	20.5.2021 26.11.2021	3.2,3.6,3.7,3.9,3.10,3.13,3.16,3.19,3.20,3.21	9
168	**Ucchil** Tal. Junnar, Dist. Pune	2001	73° 41'00" 19° 13'00"	13.01	3.12	201.0	**MH09MH. 1572**	20.5.2021 26.11.2021	3.2,3.5,3.7,3.9,3.10,3.13,3.16, 3.20,3.21	9
169	**Yenere** Tal. Junnar, Dist. Pune	1979	73° 47'00" 19° 10'00"	19.50	2.07	281	**MH09MH. 0768**	20.5.2021 26.11.2021	3.2,3.5, 3.9,3.10,3.13,3.16,3.20, 3.33,3.34	9
170	**Shivdoh** Tal. Parner, Dist. A.Nagar	2003	74° 16'45" 19° 01'06"	12.70	1.16	295	**MH09LH 2031**	24.5.2021 7.12.2021	3.2,3.5,3.7,3.9,3.13,3.16,3.20,3.21,3.22,	9
171	**Devibhoyare** Tal. Parner, Dist. A.Nagar	2002	74° 17'38" 19° 00'45"	15.70	2.77	330	**MH09LH 2032**	24.5.2021 7.12.2021	3.2,3.5,3.7,3.9,3.13,3.16,3.20, 3.21,	8
172	**Jhadhavwadi** Tal. Parner, Dist. A.Nagar	2001	74° 20'59" 19° 02'21"	15.70	1.39	440.60	**MH09LH 2033**	24.5.2021 7.12.2021	3.2,3.5,3.7,3.9,3.13,3.16,3.20, 3.21,3.34	9

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
(a) Executive Engineer ,Solapur Irrigation Division Solapur										
173	**Chare** Tal. Barshi Dist. Solapur	1983	75°45'00" 18°35'42"	16.30	1.50	286	**MH09MH. 0973**	5.5.2021 10.11.2021	3.1, 3.9, 3.13, 3.16, 3.20, 3.21, 3.23, 3.22, 3.33	9
174	**Hingani(k)** Tal. Karmala Dist Solapur	1974	75°24'30" 18°16'00"	16.15	2.22	571	**MH09MH. 0441**	8.5.2021 10.11.2021	3.9, 3.34, 3.13, 3.20, 3.22,3.28, 3.35	7
175	**Hingani(p)** Tal. Barshi Dist. Solapur	1977	75°50'00" 18°07'00"	21.87	45.51	2435	**MH09MH. 0657**	14.5.2021 10.11.2021	3.1, 3.6,3.10, 3.2, 3.13, 3.16, 3.19, 3.20, 3.21, 3.22	10
176	**Jawalgaon** Tal. Barshi Dist. Solapur	1985	75°54'00" 18°01'00"	21.71	34.92	1837	**MH09MH. 1340**	14.5.2021 10.11.2021	3.2, 3.13, 3.16, 3.19, 3.20, 3.21, 3.22	7
177	**Kari** Tal. Barshi Dist. Solapur	1973	75°00'20" 18°55'00"	15.72	1.70	364.8	**MH09MH. 0363**	5.5.2021 10.11.2021	3.2, 3.7, 3.9, 3.13, 3.16, 3.19, 3.20, 3.33, 3.34, 3.35	10
178	**Koregaon** Tal. Barshi Dist.Solapur	1985	75 °45'00" 18 °25'00"	21.64	1.96	335	**MH09MH. 1200**	5.5.2021 10.11.2021	3.5, 3.7, 3.13	3
179	**Mangi** Tal. Karmala Dist Solapur	1966	75°17'00" 17°17'00"	22.95	30.92	2237	**MH09MH. 0131**	8.5.2021 12.11.2021	3.13, 3.20	2
180	**Pathari** Tal. Barshi Dist. Solapur	1905	75°50'00" 18°19'00"	19.43	11.87	512	**MH09MH. 0025**	14.5.2021 10.11.2021	3.1, 3.2, 3.5, 3.7, 3.9, 3.16, 3.21, 3.35	8
181	**Shirwalwadi** Tal.Akkalkot Dist Solapur	1978	76°18'00" 17°02'20"	16.10	3.26	461.56	**MH09MH 0720**	10.5.2021 16.11.2021	3.1, 3.2, 3.5,3.6, 3.7, 3.9, 3.13, 3.16, 3.19, 3.20, 3.21,3.28, 3.35	13
182	**Kazikunbus** Tal. Akkalkot Dist. Solapur	1992	76°10'00" 17°43'00"	20.00	4.031	692.15	**MH09MH 1224**	10.5.2021 16.11.2021	3.1,3.2, 3.5,3.9, 3.22, 3.13, 3.16, 3.19, 3.20, 3.21, 3.28	11

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
183	**Rajuri** Tal. Karmala Dist. Solapur	1981	74°58' 18°22'	19.29	2520	694.33	**MH09MH 0894**	8.5.2021 12.11.2021	3.1, 3.2, 3.5, 3.7, 3.9, 3.13, 3.16,3.21	8
(b) Executive Engineer ,Bhima Irrigation Division Pandharpur										
184	**Chikhalgi** Tal.Mangalwedha Dist. Solapur	1990	75°25'20" 17°17'30	18.37	8.74	1966	**MH09MH. 0251**	14.5.2021 11.1.2022	3.1,3.2,3.9,3.23,3.29	5
185	**Chincholi** Tal. Sangola Dist. Solapur	1966	75°28'00" 17°24'00	15.24	2.74	991	**MH09MH. 0128**	13.5.2021 11.1.2022 Test Inspected by DSO 29.1.2022	3.1,3.2,3.5,3.9,3.16,3.23,3.26,3.29,3.20	10
186	**Padwalkarwadi** Tal.Mangalwedha Dist. Solapur	1973	75°22'00" 17°12'45"	15.17	2.99	483	**MH09MH. 0378**	14.5.2021 11.1.2022	3.1,3.5,3.7,3.26,3.29,3.1, 3.23	7
187	**Talsangi** Tal.Mangalwedha Dist. Solapur	1896	75°26'00" 17°01'20''	15.24	2.43	411.7	**MH09MH. 0579**	14.5.2021 11.1.2022	3.1,3.2,3.5, 3.7, 3.13, 3.26,3.29,3.35	8
(b) Executive Engineer Bhima Developement Division No.2, Solapur										
188	Name :**Ashti** Tal. Mohol Dist. Solapur	1883	75°26' 00'' 17°47'30	17.60	23.01	1359.21	**MH09MH 0014**	6.5.2021 9.11.2021	3.1,3.2, 3.6, 3.7, 3.9, 3.13, 3.16,3.20, 3.21	9
(3) Superintending Engineer ,Bhima Canal Circle, Solapur										
(a) Executive Engineer ,Minor Irrigation Division No 1 Solapur										
189	**Babhulagaon** Tal.Barshi Dist. Solapur	1993	75°46'55" 18°19'23"	16.93	6.40	1046.89	**MH09MH. 1620**	12.5.2021 9.10.2021	3.1 3.2, 3.9, 3.34,3.20, 3.13,3.21,	7

Sr. No	Name of Dam	Date of Compl-etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	2	3	4	5	6	7	8	9	10	11
190	**Pimpalgaon Dhale** Tal.Mangalwedha Dist. Solapur	2008	75°47'40" 18°10'10''	18.70	12.66	2242	**MH09MH 1840**	12.5.2021 9.10.2021 Test Inspection by DSO 31.1.2022	3.1,3.2, 3.5, 3.7, 3.9, 3.10, 3.13,3.20,3.31, 3.33	10
191	**Gholasgaon** Tal. Akkalkot. Dist-Solapur	2004	76°15'18" 17°30'50''	16.24	2.08	496.25	**Proposed for updation in NRLD 2020**	9.3.2021 NR	3.1,3.2, 3.7, 3.9, 3.13,3.20, 3.21,3.33,3.34	9
(4) Superintending Engineer, Satara Project Irrigation Circle, Satara										
(a) Executive Engineer ,Minor Irrigation Division Satara										
192	**Mahind** Tal. Patan Dist. Satara	2000	73°54'13" 17°22'05"	21.32	2.404	750.00	**MH09MH 1838**	14.5.2021	3.1,3.2,3.5,3.6,3.7,3.16,3.21,3.23, 3.29,3.30, 3.34	11
193	**Chiteghar** Tal. Patan Dist. Satara	2010	73°53'20" 17°25'15"	23.4	3.90	1015.00	**MH09MH 2409**	13.5.2021	3.1, 3.6, 3.9, 3.20, 3.21 ,3.22,3.23,3.24,3.30 3.34	10

Table 3.16

Class-I Dams with Category-1 Deficiency (Private Owned)

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
---------- No Such Dams under this class ----------						

Table 3.17

Class-I Dams with Category-2 Deficiency (Private Owned)

Sr. No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(1) The Tata Power Co. Ltd. Lonavala						
1	**Name :Thokarwadi** (gated) Tal. Maval Dist. Pune Year of completion : 2006 Location : Longitude 73°30'34" Latitude 18°54'00'' Height : 59.44 m Gross Capacity : 363..70 Mcum Spillway capacity: 546 m³/sec Sr. No. in Large Dam Register :**MH09MH0043**	9.12.2021	Smt.S.Y.Kurhade EE. DSD 2, Nashik	Dam body	1. The sign of leakages and sweating were observed with vegetation on downstream surface of NOF section (A11)	Measurement of leakage and mapping sweating patches are done.It shall be kept under observation and record shall be kept with respect to reservoir water level.
2	**Name :Walwhan** (gated) Tal. Maval Dist. Pune Year of completion : 1916 Location : Longitude 73°25'25" Latitude 18°45'51'' Height : 26.37 m Gross Capacity : 72.50 Mcum Spillway capacity: 546 m³/sec Sr. No. in Large Dam Register :**MH09MH0036**	21.12.2021	Shri.S.Amale SE. DSO, Nashik	Dam body	1.Minor leakages and sweating were observed with vegetation on downstream surface of NOF section (A11)	This vegetation needs to be cleaned from down stream sloping surface of NOF section of dam. The records of leakages wrt reservoir level shall be kept.

Sr. No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
3	**Name :Shirwata** (gated) Tal. Maval Dist. Pune Year of completion : 1920 Location : Longitude 73°28'41" Latitude 18°47'59'' Height : 38.70 m Gross Capacity : 186.84 Mcum Spillway capacity: 593m³/sec Sr. No. in Large Dam Register :**MH09MH0041**	21.12.2021	Shri.S.Amale SE. DSO, Nashik	Dam body	1.There was leakage observed through the junction of overflow and non overflowsection.(A15) 2.Sweating,leakage and leaching were observed slope surface of the NOF sections and buttresses for the most of the length of dam in earlier visit.On the day of visit grouting & pointing work were seen in progress(A11)	The leakage needs to be measured and necessary remedial measures shall be carried out. It is instructed that literature and standard procedure of application of this material shall be given to DSO for record.In next season sweating and leakages shall be observed where pointing is done.Thse observations shall be conveyed to DSO.
4	**Name :Mulashi** Tal. Mulashi Dist. Pune Year of completion : 1927 Location : Longitude 73°30'50" Latitude 18°31'31'' Height : 50.60 m Gross Capacity : 794.95 Mcum Spillway capacity: 1892m³/sec Sr. No. in Large Dam Register :**MH09MH0049**	9.12.2021	Smt.S.Y.Kurhade EE. DSD 2, Nashik	Dam Body	1.Considerable leakage along with sweating and leaching are observed.	Measurement of lekages with measuring devicesshall be done and sweating patches shall be measured.It shall be kept under observation with respect to reservoir water level and necessary grouting and pointing as per shirwata dam shall be done if leakages are beyond permissible limit.

Table 3.18

Class-I Dams with Category-3 Deficiency (Private Owned)

Sr. No	Name of Dam	Date of Completion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Gated / Ungated	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11	12
(1)The Tata Power Co. Ltd. Lonavala											
1	Thokarwadi Tal.Maval Dist. Pune	1922	73°30'34" 18°54'00''	59.44	363.70	546.00	**MH09HH 0043**	Ungated	9.12.2021	3.1, 3.9, 3.16,3.26	4
2	Shirwatta Tal.Maval Dist. Pune	1920	73°28'41" 18°47'59''	38.70	186.84	593	**MH09HH 0041**	Ungated	21.12.2021	3.9,3.12,3.16,3.33	4
3	Mulashi Tal.Mulashi Dist. Pune	1927	73°30'50" 18°31'31''	50.60	794.95	1892	**MH09HH 0049**	Gated	9.12.2021	3.1,3.12,3.16,3.19,3.20	5
4	Walwan Tal.Maval Dist. Pune	1916	73°25'25" 18°45'51''	26.37	72.50	171	**MH09MH. 0036**	Ungated	21.12.2021	3.1, 3.6,3.9, 3.16,3.20	5
(2)Sahara India (Ambey Valley)Limited Pune											
5	Vishakhar Tal. mulashi Dist. Pune	2006.	73°25'00" 18°40'00''	38.00	4.22	245	**MH09MH 1904**	Ungated	Not Inspected	---	---
6	Ambavane Tal. Mulashi Dist. Pune	2000	73°25'00" 18°40'00"	38.76	8.575	738	**MH09MH 1898**	Gated	Not Inspected	---	---
7	Kolawali Tal. Mulashi Dist. Pune	2000	73°25'00" 18°40'00"	43.50	2.17	90	**MH09MH 1903**	Ungated	Not Inspected	---	---

Table 3.19

Class-II Dams with Category-1 Deficiency (Private Owned)

Sr. No.	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
---------- No Such Dams under this category is reported ----------						

Table 3.20

Class-II Dams with Category-2 Deficiency (Private Owned)

Sr. No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(1) Commissioner,Municipal Corporation Kolhapur						
1.	Name :**Kalamba** Tal. Karveer Dist.Kolhapur Date of completion:**1983** Location: Longitude **74°21'27**″ Latitude **16°55'41**″ Height :**16.26**. **m.** Gross capacity **2.75 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH1015**	28.1.2021	Inspected by EE DSD 1 Nashik	Earthen Embankment	1. Earthen section seems to be undersection in certain portion .(B1)	Superimpose existing cross section and L section on design cross and L section at every 30 m. C/C to ascertain whether earthen embankment is undersection or not. Communicate facts to DSO, Nashik
2.	Name :**Rankala** Tal. Karveer Dist.Kolhapur Date of completion:**1883** Location: Longitude **73°40'00**″ Latitude **16°43'00**″ Height :**15.00**. **m.** Gross capacity **4.30 Mcum** Sr.No.In Large Dam Register 2012:**MH09MH0010**	28.1.2022	Inspected by EE DSD 1 Nashik		1. Waterway is blocked due to pipes, stones and ongoing concreting in tail channel. Also in tail channel there is obstructions in the form of enchrochment due to civilization.(A7)	Sufficient waterway is must to pass safely overflow discharge. Hence clear the obstacles and encroachments in tail channel.
(2)	**INS Shivaji ,Indian Navy , Lonavala.**					
3.	Name : **Old Shivsagar** Tal. **Mawal** Dist. **Pune** Date of completion:**1989** Location: Longitude- **73°52'00**″ Latitude **18°45'00** Height :**2570 m**	26.8.2021	Inspected by EE DSD 1 Nashik	Body of dam Overflow Section	1. Water jets and leakages are observed through masonry section.(A11) 2. The expansion joints of WW bar was seen opened.Heavy	Leakage should be quantified and records of leakage with respect to water levels in reservoir should be maintained. Leakage should be quantified and

Sr. No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
	Gross capacity **1.81 Mcum** Sr.No.In Large Dam Register **MH09MH1230**				leakages were observed.(B7) 3. Big trees, heavy vegetation are seen on d/s of ww bar in tail channel.(B2)	records of leakage with respect to water levels in reservoir should be maintained. Vegetation should be removed for free flow of water for disposal of water through tail channel without any obstruction
4	Name : **New Shivsagar** Tal. **Mawal** Dist. **Pune** Proposed for updation in NRLD 2018	26.8.2021	Inspected by EE DSD 1 Nashik	Masonry Section Embankment	1. leakages were observed through masonry section @ chainages 117m to 123m (A11) 2.Heavy Vegetation, bushes are observed@ 0m to120m on d/s of dam. Drains are not observed due to vegetation.(B2) 3. Water jets are observed in the junction of overflow & non overflow section of masonry dam.(A15) 4. Heavy leakages were observed @205m &.210m.Also minor leakages were observed at some places. Vertical porous drains in inspection gallery shows heavy leakages even after grouting of the masonry dam as informed by field officials. (A10)	Leakage should be quantified and records of leakage with respect to water level in reservoir should be maintained. Vegetation and bushes should be removed for free flow of water and proper inspection of side slope of dam. Leakages through the mentioned junction are observed for varying levels of reservoir & record of the same should be maintained. Leakage should be quantified and records of leakage with respect to water level in reservoir should be maintained. Leakages through VPD pipes are observed for varying levels of reservoir & record of the same should be maintained.

Sr. No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(3)	**Symbiosis,Lavale,Pune**					
5	Name : **Upper Tank** Tal. **Mulashi** Dist. **Pune** Date of completion: Location: Longitude- 73°43'39″ Latitude 18°32'04 Height :**15.00 m** Gross capacity **2.1694 Mcum** Sr.No.In Large Dam Register	27.8.2021	EE DSD1 Nashik		1. Waste Weir bar is not provided resulting in tail channel forming gutter.(B7) 2. Toe drain of upper tank is submerged due to water of lower tank. Hydraulic study of Upper tank & Lower tank should be carried out in order to prevent submergence of toe drain of upper tank. Cross drains and longitudinal drains are not visible due to vegetation.(B2) 3. Tail Channel erosion is observed. Heavy vegetation is observed in tail channel. Also tail channel get contracted towards lower tank. Erosio of earthen dam due to tail channel towards the d/s of upper tank is in progress.(A7)	Construct WW Bar to maintain reservoir level at FRL. Vegetation and bushes must be uprooted before they will grow into trees endangering the safety of earthen embankment. Vegetation should be removed for free flow of drains and also for proper inspection of the same. Approved Design note & Drawings shall be submitted to CDO/DSO, Nashik for study & suggesting proper remedial measures. To avoid further erosion, construct cross bar in tail channel wherever drastic change in slope. Also vegetation is removed for free flow of water in tail channel. Protection wall from dam side should be constructed in order to prevent the erosion of earthen dam in future.

Sr. No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
6	Name : **Lower Tank** Tal. **Mulashi** Dist. **Pune** Date of completion: Location: Longitude- 73°43'39″ Latitude 18°32'04 Height :**15.00 m** Gross capacity **2.1694 Mcum** Sr.No.In Large Dam Register	27.8.2021	EE DSD1 Nashik		1. Sagging noticed on the upstream face.(B3) 2. Drains are not observed due to heavy vegetation. According to the approved drawings of lower tank & field officials information, on the berm of lower tank,a road was prepared, and while constructing the road the toe drain of lower tank get overburden due to soil/Muruum.(B2) 3. Waste Weir bar is damaged.(B7) 4. It seems that water way is contracted due to construction of pipe culvert, It seems that on the downstream of second pipe culvert there may be erosion of d/s berm toe.	There should be closed observations on the sagged portion of embankment to notice distresses if any. Vegetation should be removed for inspection of side slope of dam. Approved design note & drawings shall be submitted to DSO for study & suggesting proper remedial measures. WW bar should be reconstructed as per design. Verify and communicate to DSO Nashik that whether pipe openings are sufficient to pass the design discharge of spillway to suggest remedial measures. Protection wall for d/s berm is necessary to avoid erosion of toe

Sr. No	Dam Features	Date of Inspection	Inspecting Officer	Main Component of Dam	Significant Deficiencies Noticed	Remedial Measures Suggested
1	2	3	4	5	6	7
(4)Tata Power Company Ltd Lonawala,Dist Pune						
7	Name : **Lonavala** Tal. **Mawal** Dist. **Pune** Date of completion:**1916** Location: Longitude- **73°24'07"** Latitude **18°44'00** Height :**15.35 m** Gross capacity **11.50 Mcum** Sr.No.In Large Dam Register **MH09MH0035**	8.12.2021	Smt.S.Y.Kurhade EE. DSD 2, Nashik		1. Sweating on d/s side of dam was observed . Leakage through dam masonry was observed at some places.(A11)	Mapping of leakage and seating shpuld be done, It should be kept under observation and record should be kept with respect to reservoir water level.

Table 3.21

Class-II Dams with Category-3 or No Deficiency (Private Owned)

Sr. No	Name of Dam	Date of Compl -etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	2	3	4	5	6	7	8	9	10	11
(1)The Tata Power co. Ltd. Lonavala										
1	Lonavala Tal. Maval Dist. Pune	1916	73°24'07" 18°44'40"	15.35	11.50	129	**MH09MH. 0035**	8.12.2021	3.1,3.9,3.13,3.26,3.28	5
2	Kundali Tal. Maval Dist. Pune	1998	73°51'24" 18°31'13"	39.26	6.34	746	**MH09MH. 1589**	21.12.2021	3.1,3.2,3.12,3.18,3.26	5
(2) Commissioner, Municipal Corporation Kolhapur										
3	Rankala Tal.KarveeDist. Kolhapur	1883	73°40' 00" 16°43'00"	15.00	4.30	116	**MH09MH 0010**	23.02.2021	3.2,3.9,3.27,3.28	4

Sr. No	Name of Dam	Date of Compl -etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficiencies
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	11
4	Kalamba Tal. Karveer Dist.Kolhapur	1983	74°21'27″ 16°55'41″	16.26	2.75	11.50	**MH09MH1015**	23.02.2021	3.2, 3.1, 3.4,3.5,3.7, 3.9, 3.16,3.19,3.20, 3.21	10
(3) Kagal Nagar Parishad, Kagal, Kolhapur										
5	Jaisingrao Talao Tal. Karveer Dist.Kolhapur	1923	74°12'30" 16°22'45"	12.68	2810	38	**MH09MH1912**	23.02.2021	3.1, 3.2, 3.5,3.9, 3.16, 3.19,3.28,3.29	8
(3)ShriVikramsinghGhatge Kolhapur										
6	Sir Pirajirao Talav Tal. Kagal. Dist. Kolhapur	1923	74°03'00" 17°41'29''	21.95	2.91	30.0	**MH09MH. 0046**	28.1.2022	3.1,3.2, 3.4,3.5, 3.9, 3.16, 3.32,3.35,3.2	9
(4)INSShivaji, Indian Navy ,Lonawala Dist – Pune										
7	New Shivsagar Tal. Mawal Dist .Pune	1989	73°52'00″ 18°45'00	25.70	1.81	70.0	**MH09MH 1230**	26.8.2021	3.1,3.2,3.9,3.12,3.16,3.27 3.35	7
8	INS Shivaji (Old) (Shivsagar) Tal. Mawal Dist .Pune	-	-	-	-	-	**Proposed for updation in NRLD 2018**	26.8.2021	3.1, 3.2,3.9	3

Sr. No	Name of Dam	Date of Compl -etion	Location Longitude/ Latitude	Height in m	Gross Capacity Mm^3	Design Spillway Capacity m^3 / sec	Sr.No. in NRLD Register	Date of Inspection Pre & Post	Deficiencies noticed	Total Deficien cies
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	11
5) Symboisis University, Lavale, Pune.										
9	Upper Tank	-	73°43'39″ 18°32'04	15	2.1694	-	**Not yet registered**	27.8.2021	3.1,3.2, 3.9, 3.16, 3.19,	5
10	Lower Tank	-	73°43'39″ 18°32'04	13.50	0.4550	-	**Not yet registered**	27.8.2021	3.1,3.2, 3.5, 3.9, 3.16, 3.19	6

Table 3.22

Category-1 Deficiency in Class-I Dams

Sr. No	Deficiency	Names of dams	Total No. of dams
1	2	3	4
---------- NIL ----------			

Table 3.23

Category-2 Deficiency in Class-I Dams

Sr. No	Deficiency	Names of dams	Total No. of dams
1	**A.1**: Boil leakage/ seepage/ wet patches/ slushiness, in Earthen Dam.	Kasarsai, Chaskaman, Warana, Tulshi	4
2	**A 2**: Standing pool / Ponding / Water Logging / Slushy condition on D/S of Dam	Khadakvasala, Tulshi, Dhom, Balkavadi, Chilewadi, Sina, Nagewadi, Sina Kolegaon	8
3	**A 3** : Leakages in vicinity of junction between earthen dam & masonry dam portion.	Khadakvasala, Pawana, Nagewadi	3
4	**A 4**: Major leakages through outlet conduit/ pipe joints / Gates.	Panshet, Bhamaaskhed, Kadavi, Warana, Chikotra, Kumbhi, Phaye, Chitri, Dhom ,Kanher, Pimpalgaonjoge, Ghod, Sina	13
5	**A 5:** Relief wells not functioning properly./ Abnormal rise in water level in wells.	Jadhavwadi, Chaskaman,Warana, Dudhaganga,Kanher, Wadaj	6
6	**A 6**: Outlet well is damaged/not in good condition /cracks observed/jets of water in well.	Morna,Pimpalgaonjoge, Pangare	3
7	**A 7:** Retrogression /scouring in tail channel.	Nazare, Pangare	2
8	**A 8**: Drainage gallery inaccessible/No adequate lighting./ No dewatering arrangement or failure.	Bhatghar, Andra valley, Pawana, Chaskaman, Arala kalmodi, Temghar Radhanagari, Warana, Dudhaganga, DhomBalkavadi, Kanher, Manikdoh Dimbhe, Tarali, Bhima Ujani,Sina Kolegaon	16
9	**A 9:** Foundation drains / holes/ porous pipes/chocked/ no seepage through foundation drain holes.	Kasarsai, Andra valley, Warasgaon,Chaskaman,Temghar, Warana, Dudhaganga, DhomBalkavadi, Kanher, Kolkewadi,Koyana, Manikdoh, Dimbhe, Tarali, Bhima Ujani	15
10	**A 10**: Heavy leakages through porous pipes/ through dam body in gallery /monolith joints.	Bhatghar, Andra valley, Warasgaon, Pawana, Chaskaman, Arala kalmodi, Temghar, Radhanagari, Dudhaganga, DhomBalkavadi, Manikdoh, Wadaj, Dimbhe, Kalgaon ,Tarali, Sina Kolegaon	16
11	**A 11** : Sweating / seepages through D/S of masonry dam	Bhatghar, Vadivale, Kasarsai, NiraDevghar, Andra valley, Panshet, Khadakvasala, Warasgaon, Pawana, Chaskaman, Veer, Temghar Dudhaganga,Dhom ,Kanher, Kolkewadi, Manikdoh, Wadaj ,Dimbhe	22

Sr. No	Deficiency	Names of dams	Total No. of dams
		Ghod, Tarali, Bhima Ujani	
12	**A 12**: Excessive considerable leaching from seepage water.	Bhatghar, NiraDevghar, Panshet,Chaskaman, Temghar, Warana, Dudhaganga, Kanher, Kolkewadi, Manikdoh, Dimbhe, Tarali, Bhima Ujani	13
13	**A 13**: Swelling / minor cracking observed on body of dam.	Nil	
14	**A 14**: EDA / Stilling basin damaged/Hydraulic performance not good.	Bhatghar, Jadhavwadi, NiraDevghar, Khadakvasala, Arala kalmodi, Radhanagari Ghatprabha DhomBalkavadi Kanher Koyana Manikdoh Dimbhe Chilewadi Ghod Sina Kalgaon Uttarmand Bhima Ujani Sina Kolegaon	18
15	**A 15**: Leakages through spillway /piers//junction of flank wall.	Vadivale, Andra valley, Warasgaon, Pawana, Temghar, Kolkewadi, Sina, Pangare, Kalgaon	9
16	**A 16**: Damages / foundation erosion/ scour/undermining observed in vicinity of flank walls/ guide walls/ junction walls/return walls.	Bhatghar, NiraDevghar, Warasgaon,Veer, Temghar, Ghatprabha, Dhom, Kanher, Ghod, Sina	10
17	**A 17** :End weir not in good condition / scouring noticed on immediate D/S.	Bhatghar, Jadhavwadi , Khadakvasala,Warasgaon, Pawana, Chaskaman, Radhanagari, Warana, Ghatprabha ,Kanher, Chilewadi, Ghod, Morna (Gureghar), Kalgaon, Uttarmand, Bhima Ujani	16
18	**A 18**: Wire ropes of hoist not in good condition / hoisting structure damaged / cracked.	Jadhavwadi, Andra valley, Veer, Morna,Kanher, Nagewadi, Morna (Gureghar), Kusawade	8
19	**A 19**: Alternative power system Generator for gate operation not working properly.	Chaskaman, Bhamaaskhed, Tulshi, Dhom, Kanher, Sina Kolegaon	6
20	**A 20**: Operation of gates not smooth needs repair.	Bhamaaskhed, Morna, Radhanagari, Warana, Dudhaganga, Ghatprabha, Kanher, Wadaj, Pangare, Kusawade	10
21	**B 1** Dam section is not as per design		
22	**B 2**: Cross and toe drains not working properly/ drains silted or vegetated causing stagnant pool of water.	Warasgaon, Pawana, Bhamaaskhed, Sina Kolegaon	4
23	**B 3**: Considerable settlement of embankment / Rock toe/Pitching/ U/S & D/S slops, bulging/concavity of slopes.	Jadhavwadi,Pangare, Tarali, Hateghar, Bhima Ujani, Sina Kolegaon	6
24	**B 4**: Longitudinal / Transverse cracks/ low area/sink holes/gully	---	-

Sr. No	Deficiency	Names of dams	Total No. of dams
	formation on top side slope of earthen dam.		
25	**B 5:** Outlet gates not functioning properly. Stem rod is bent(Service gate/Emergency gate/Stop log gate/sluice gate)	Jadhavwadi, Andra valley, Khadakvasala, Chaskaman, Arala kalmodi, Bhamaaskhed, Nazare, Morna, Warana, Jambre, Lakikatti, DhomBalkavadi, Kanher, Kolkewadi, Koyana, Chilewadi, Ghod, Sina,Nagewadi, Morna (Gureghar)	20
26	**B 6**: Approach to dam through all weather road not constructed/maintained properly.	Gunjawani, Radhanagari, Jambre, Koyana, Chilewadi, Ghod ,Sina	7
27	**B 7**: Waste weir/waste weir bar not in good condition/coping damaged/leakage through waste weir.	Vadivale, Khadakvasala, Kadavi, Palaeshwer,Ghatprabha, Jangamhatti, Chilewadi, Pangare, Kalgaon, Bhima Ujani	10
28	**B 8**: Pointing on U/S face of dam not in good condition./deterioration spalling of concrete surface.	Bhatghar, Vadivale, Temghar Tulshi, DhomBalkavadi,kolkewadi, Manikdoh, Dimbhe, Tarali, Sina Kolegaon	10
29	**B 9**: Instruments not in working condition.	Bhatghar, NiraDevghar, Panshet, Khadakvasala, Warasgaon, Pawana, Chaskaman, Bhamaaskhed, Temghar, Gunjawani, Kadavi, Kasari, Radhanagari, Warana, Dudhaganga, Chikotra, Kumbhi ,Tulshi,Palaeshwer,Upwade, Ghatprabha ,Jambre ,Jangamhatti, Khleloshi, Patgaon, Phaye, Chitri, Kitwad ,Kondoshi, Lakikatti, Dhom, DhomBalkavadi, Kanher, Urmodi, Koyana,Wadaj, Dimbhe, Pimpalgaonjoge, Chilewadi, Yedgaon, Ghod, Sina, Nagewadi, Morna (Gureghar), Kusawade, Tarali, Bhima Ujani,Sina Kolegaon	48
30	**B 10**: Leakages through River sluice.	Vadivale, Koyana, Manikdoh, Bhima Ujani	4
31	**B 11**: Surface paint/steel surface of spillway gates deteriorated.	Kasarsai, Andra valley, Arala kalmodi, Dhom, Manikdoh, Wadaj, Dimbhe, Pimpalgaonjoge, Nagewadi, Morna (Gureghar), Kusawade, Uttarmand	12
32	**B 12**: Damage to Rubber seals/ considerable Leakages through gates.	Bhatghar, Panshet, Bhamaaskhed, Veer, Gunjawani, Radhanagari, Dhom, Kanher, Pimpalgaonjoge	9

Sr. No	Deficiency	Names of dams	Total No. of dams
33	**B 13**: Heavy vegetation/big trees on embankment top/slope making dam portion not accessible.	Kasarsai, Yeoti-Mhasoli, Dhom,Kanher	4
34	**B 14**: Deck bridge slab/ pier / damaged cracked/ alignment disturbed.	Dhom	1
35	**B 15**: Major portion of Pitching damaged/washed away.	Satpewadibarrage,Ghatprabha	2

Table 3.24

Category-1 Deficiency in Class-II Dams

Sr. No	Deficiency	Names of dams	Total No. of dams
1	2	3	4
---------- NIL ----------			

Table 3.25

Category-2 Deficiency in Class-II Dams

Sr. No	Deficiency	Names of dams	Total no of dams
1	2	3	4
1	**A.1**: Boil leakage/ seepage/ wet patches/ slushiness, in Earthen Dam.	Antri, Daribadchi, Dodanalla, Kadegaon, Vejegaon, DaryachiVadgaon, Kasarde, Manoli, Kalasgade, Yenechavandi, Kankatrewadi, Kumathe, Otur Waghdara, Ballalwadi, Babhulgaon	15
2	**A 2**: Standing pool / Ponding / Water Logging / Slushy condition on D/S of Dam	Matoba, Shirsuphal, Banganga, Hingangaon, Tambave, Phondshiras, Daribadchi, Dodanalla, Shegaon, Pratappur, Buddhihal, Kadegaon, Pingali, Ranand, Otur Waghdara, Chincholi, PimpalgaonDhale	17
3	**A 3** : Leakages in vicinity of junction between earthen dam & masonry dam portion.	Kankatrewadi, Mahind	2
4	**A 4**: Major leakages through outlet conduit/ pipe joints / Gates.	Bhiwargi,Buddhihal, Mahadikwadi, Olwan, Thoseghar	5
5	**A 5:** Relief wells not functioning properly./ Abnormal rise in water level in wells.	Girzani, Thoseghar, Dhakani, Mangi, Ashti, Gholasgaon	6
6	**A 6**: Outlet well is damaged/not in good condition /cracks observed/jets of water in well.	Marnewadi, Malad, Dodanalla,Birnal, Kadegaon, NimbhavadePare, Olwan, Vesraf, Karanjivane, Shendri,	18

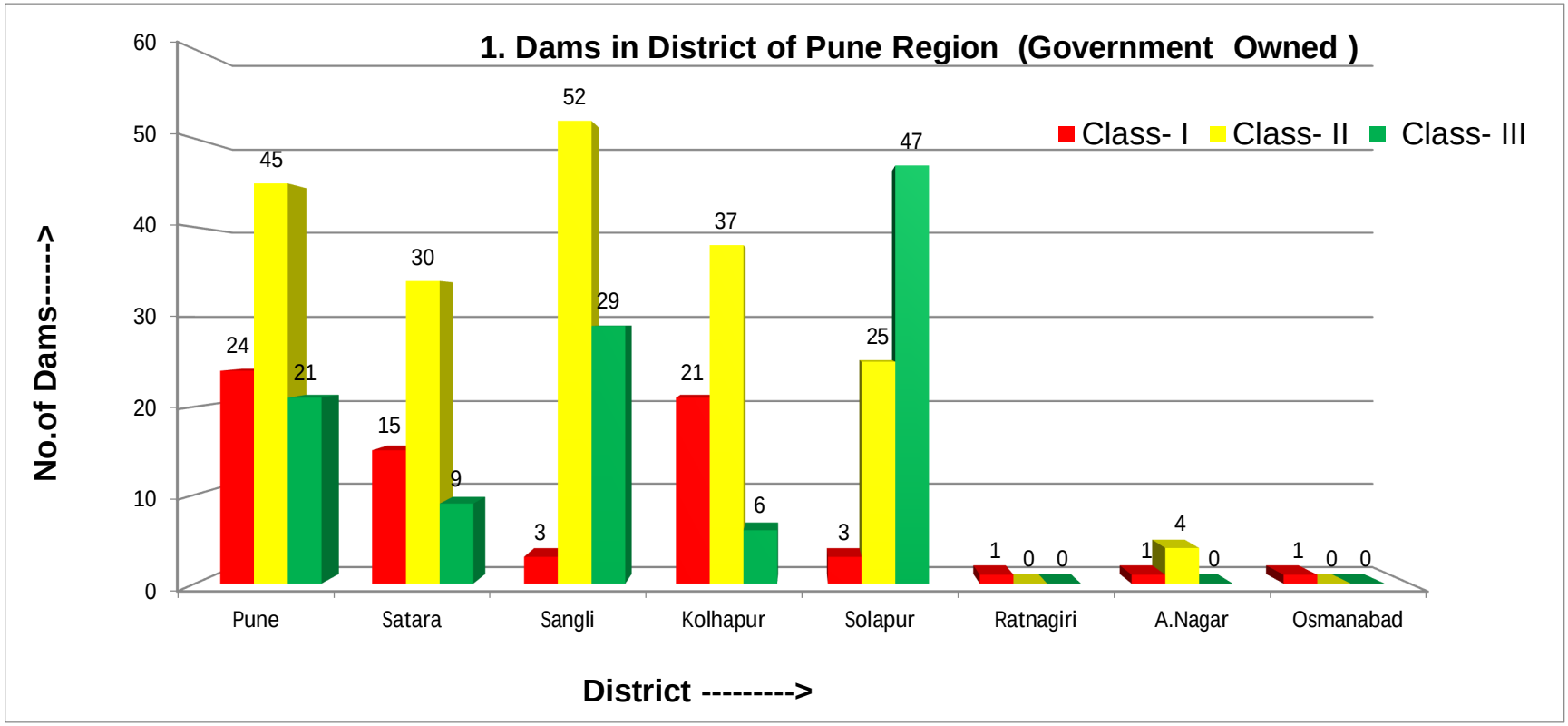
		Kankatrewadi, Pingali, Jambhulani, Andhali, Daruj, Kumathe, Babhulgaon	
7	**A 7:** Retrogression /scouring in tail channel.	Matoba, Palasdeo, Thitewadi, Kadus, Thoseghar, Ranand, Rajuri, Mahind	8
8	**A 8**: Drainage gallery inaccessible/No adequate lighting./ No dewatering arrangement or failure.	---	--
9	**A 9:** Foundation drains / holes/ porous pipes/chocked/ no seepage through foundation drain holes.	--	---
10	**A 10**: Heavy leakages through porous pipes/ through dam body in gallery /monolith joints.	---	--
11	**A 11** : Sweating / seepages through D/S of masonry dam	--	---
12	**A 12**: Excessive considerable leaching from seepage water.	--	---
13	**A 13**: Swelling / minor cracking observed on body of dam.	---	---
14	**A 14**: EDA / Stilling basin damaged/Hydraulic performance not good.	---	--
15	**A 15**: Leakages through spillway /piers/ junction of flank wall.	----	--
16	**A 16**: Damages / foundation erosion/ scour/undermining observed in vicinity of flank walls/ guide walls/ junction walls/return walls.	Urawade, Thitewadi, Kadus, Thoseghar	4
18	**A 17** :End weir not in good condition / scouring noticed on immediate D/S.	--	---
19	**A 18**: Wire ropes of hoist not in good condition / hoisting structure damaged / cracked.	--	---
20	**A 19**: Alternative power system Generator for gate operation not working properly.	--	--
21	**A 20**: Operation of gates not smooth needs repair.	---	

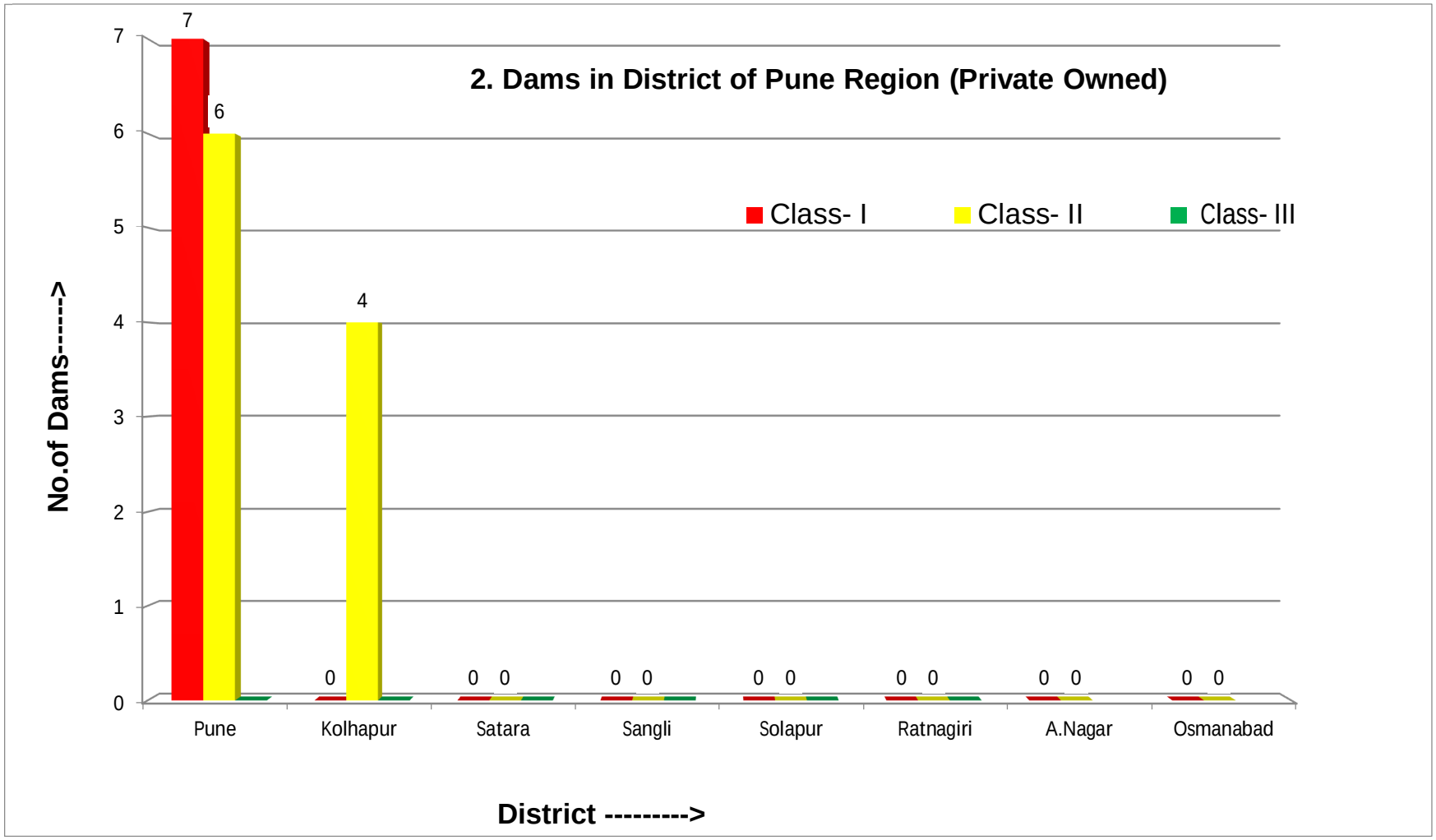
22	**B 1** Dam section is not as per design	Urawade, Bhugaon, Palasdeo, Shirsuphal, Banganga, Alegaon pagga, Nimgaon Mhalungi, Dahiwadi, Kadus Dodanalla, Shegaon, Ashti, Chincholi Birnal, Karandewadi, Ranand, Arabwadi, PimpalgaonDhale, Mahind	19
23	**B 2**: Cross and toe drains not working properly/ drains silted or vegetated causing stagnant pool of water.	Mahind	1
24	**B3:** Considerable settlement of embankment / Rock toe/Pitching/U/s & D/S slopes,bulging/Concavity of slopes	Thoseghar, Ranand, Mahind	3
25	**B 4**: Longitudinal / Transverse cracks/ low area/sink holes/gully formation on top side slope of earthen dam.	Mhasavad, Buddhihal, Ner, Nandwal, Chare, Mangi, Ashti, Gholasgaon	8
26	**B 5:** Outlet gates not functioning properly. Stem rod is bent(Service gate/Emergency gate/Stop log gate/sluice gate)	Marnewadi, Mahakoshi, Urawade, Urawade, Hadashi, Divale, Naigaon Devgaon, Wagajwadi, Bhongavali, Gadadavne, Hadashi, Khamboli, Pimpoli, Shere, Walen, Chinchwad Malad, Pilanwadi, Dahiwadi, Soradi, Kasarde Tippehalli, Chinchani, Atpadi, Dighanchi, Ghanand, Hingangaon, Kadegaon, Ped , Walunj Karandewadi, Nimbhavade, Andur, Kode, Vesraf, Dindalkop, Karanjivane, Kitwad – 1, Kumari, Sundi, Thoseghar, Yeralwadi, Jambhulani, Arabwadi, Hiware, Chalalkewadi, Ramjewadi, Otur Waghdara, Ghangaldara, Anepemdara, Hingani (K), Kazikunbus, PimpalgaonDhale	55
27	**B 6**: Approach to dam through all weather road not constructed/maintained properly.	Morale	1
28	**B 7**: Waste weir/waste weir bar not in good condition/coping damaged/leakage through waste weir.	Mahakoshi, Urawade, Matoba, Palasdeo, Naigaon, Garade, Kadus, Bhiwargi, Birnal, Erandol, Kankatrewadi, Kazikunbus, Kari	20

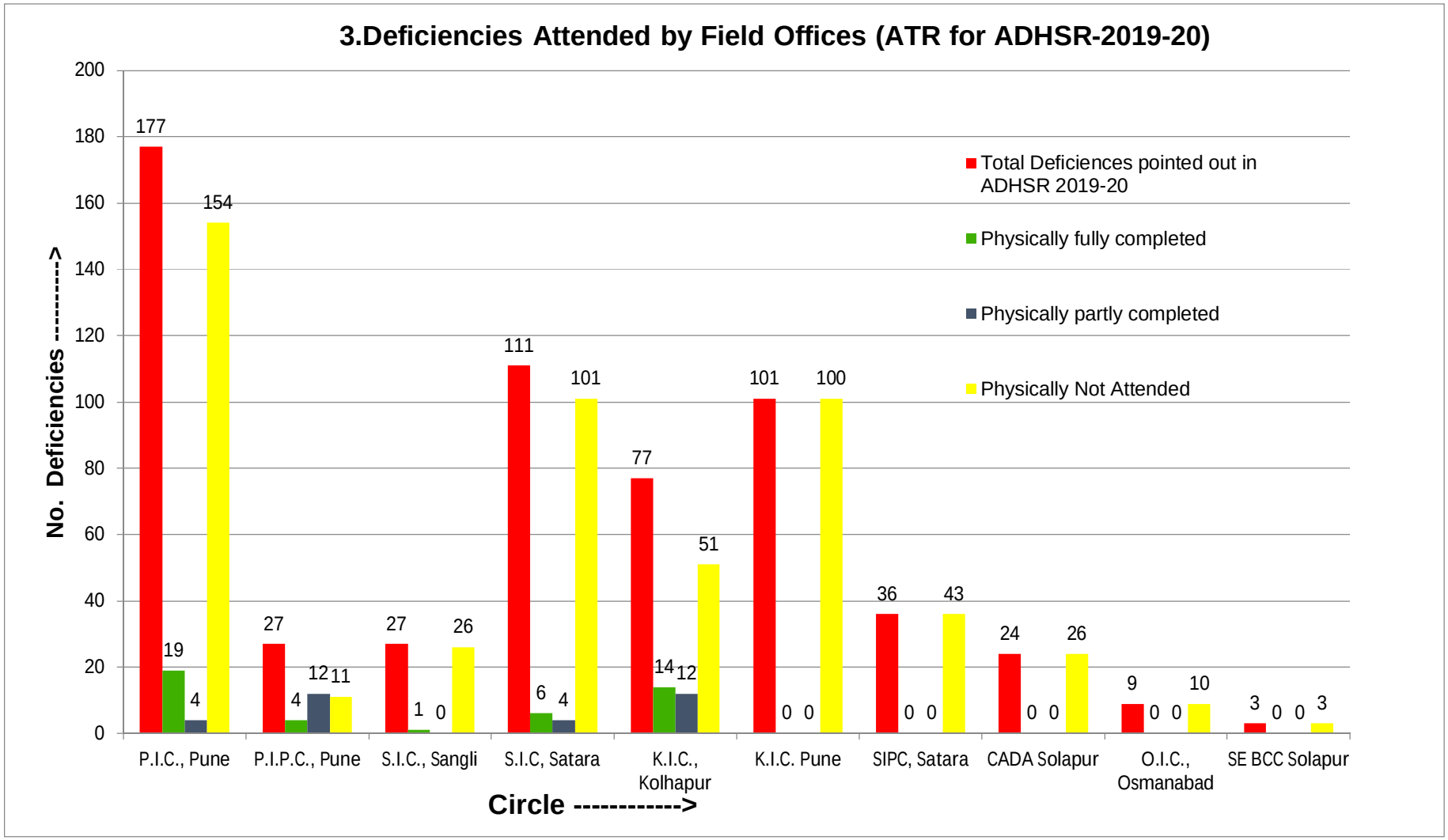
		Thoseghar, Ranand, Chaphal, Ucchil, Anepemdara, Gohe, Talsangi	
29	**B 8**: Pointing on U/S face of dam not in good condition./deterioration spalling of concrete surface.	---	---
30	**B 9**: Instruments not in working condition.	---	---
31	**B 10**: Leakages through River sluice.	--	---
32	**B 11**: Surface paint/steel surface of spillway gates deteriorated.	---	----
33	**B 12**: Damage to Rubber seals/ considerable Leakages through gates.	---	---
34	**B 13**: Heavy vegetation/big trees on embankment top/slope making dam portion not accessible.	---	---
35	**B 14**: Deck bridge slab/ pier / damaged cracked/ alignment disturbed.	**---**	--
36	**B 15**: Major portion of Pitching damaged/washed away.	**---**	--

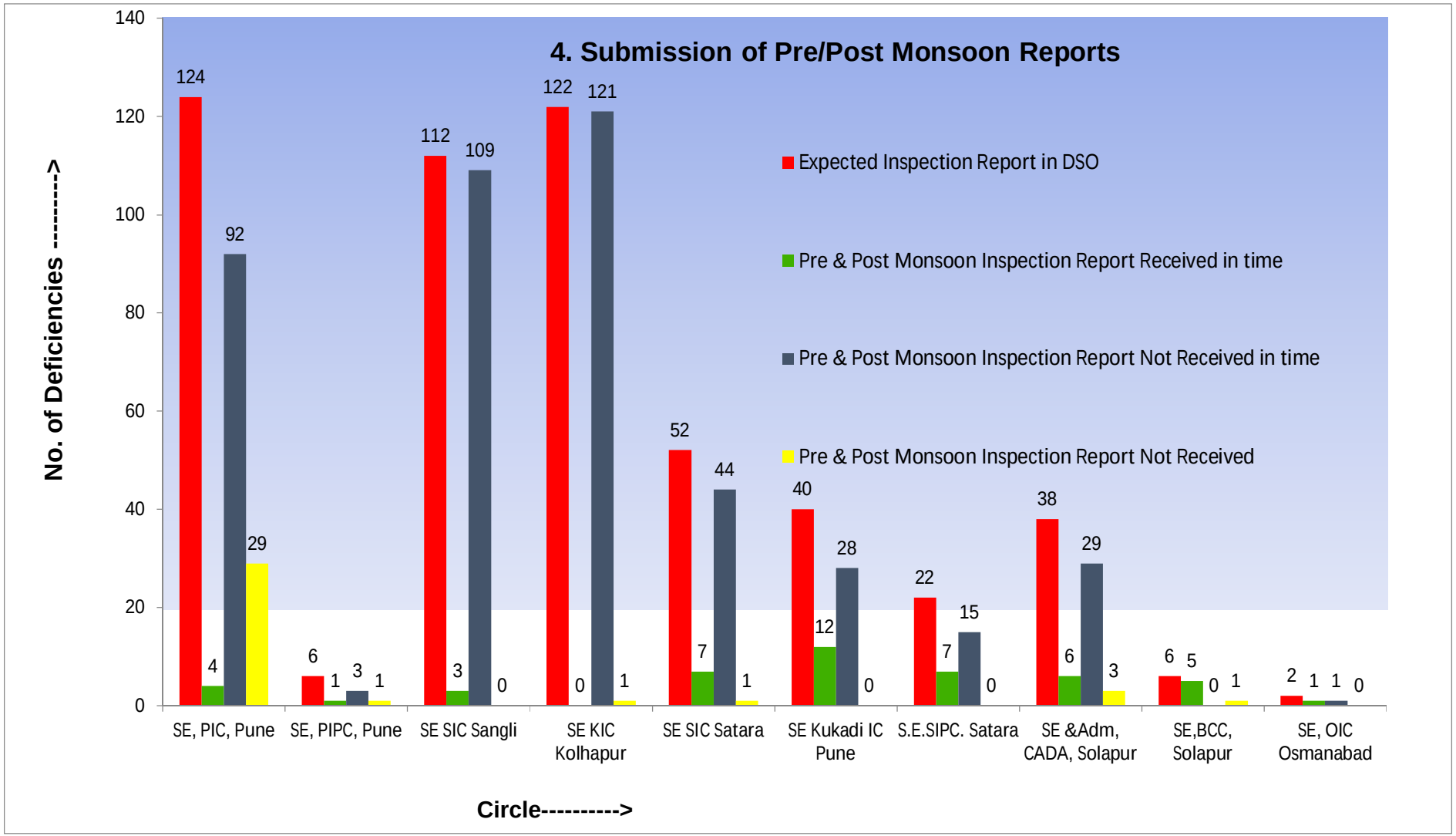
Annexure-1

Graphical Representation

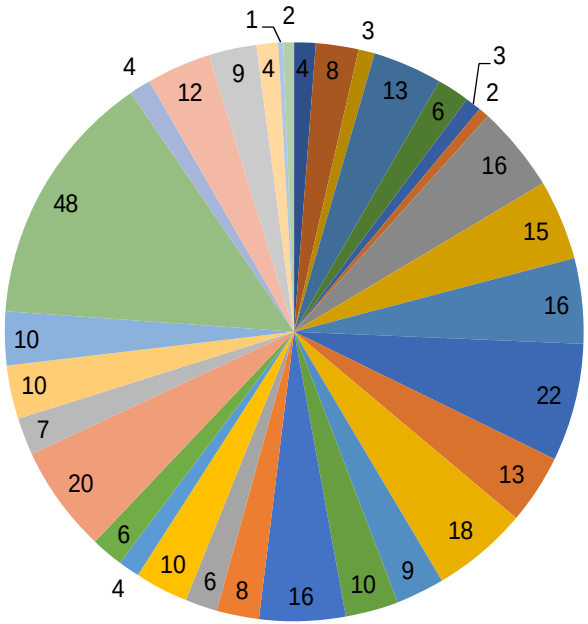



2. Dams in District of Pune Region (Private Owned)
Class- I
Class- II
Class- III
No.of Dams----->
District --------->
Pune
Kolhapur
Satara
Sangli
Solapur
Ratnagiri
A.Nagar
Osmanabad
7
6
4
0
0 0
0 0
0 0
0 0
0 0
0 0
0
1
2
3
4
5
6
7

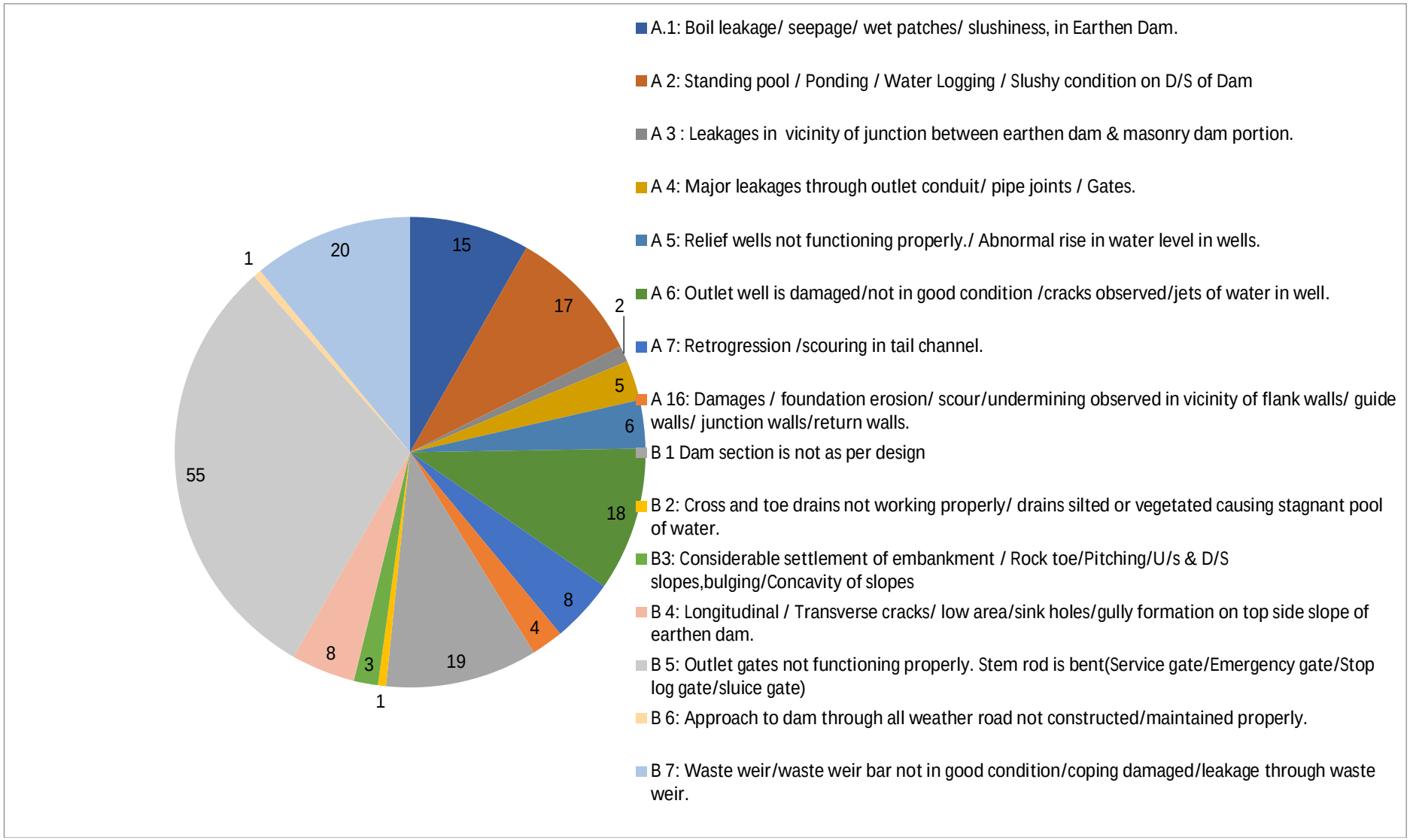

3.Deficiencies Attended by Field Offices (ATR for ADHSR-2019-20)
No. Deficiencies ---------->
Circle ---------->
Total Deficiences pointed out in ADHSR 2019-20
Physically fully completed
Physically partly completed
Physically Not Attended
P.I.C., Pune
P.I.P.C., Pune
S.I.C., Sangli
S.I.C, Satara
K.I.C., Kolhapur
K.I.C. Pune
SIPC, Satara
CADA Solapur
O.I.C., Osmanabad
SE BCC Solapur

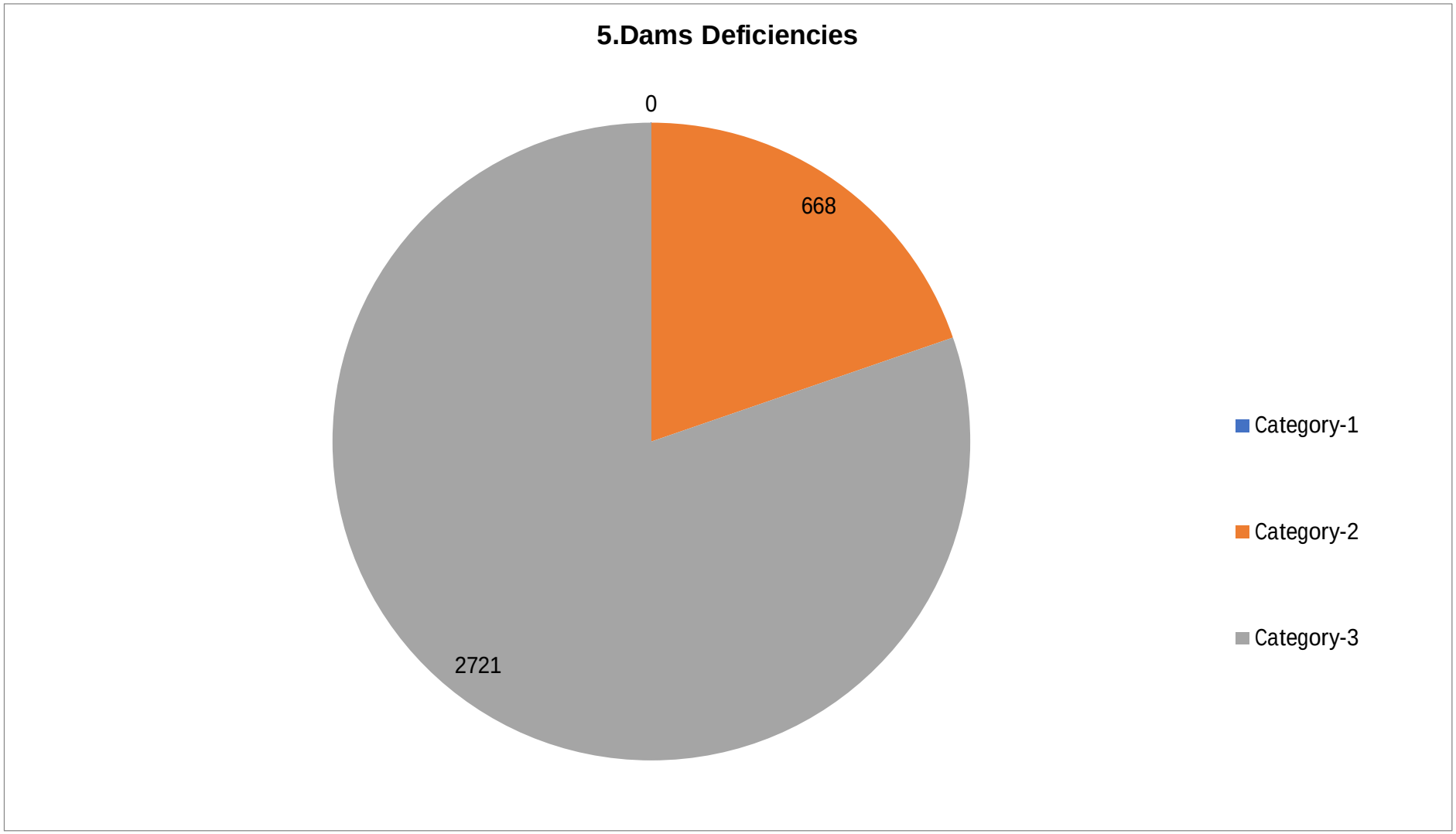

4. Submission of Pre/Post Monsoon Reports
No. of Deficiencies --------->
Circle---------->
Expected Inspection Report in DSO
Pre & Post Monsoon Inspection Report Received in time
Pre & Post Monsoon Inspection Report Not Received in time
Pre & Post Monsoon Inspection Report Not Received
0
20
40
60
80
100
120
140
SE, PIC, Pune
SE, PIPC, Pune
SE SIC Sangli
SE KIC Kolhapur
SE SIC Satara
SE Kukadi IC Pune
S.E.SIPC. Satara
SE &Adm, CADA, Solapur
SE,BCC, Solapur
SE, OIC Osmanabad
124
4
92
29
6
1
3
1
112
3
109
0
122
0
121
1
52
7
44
1
40
12
28
0
22
7
15
0
38
6
29
3
6
5
0
1
2
1
1
0

5.Category wise Deficiencies Class 1 Dam



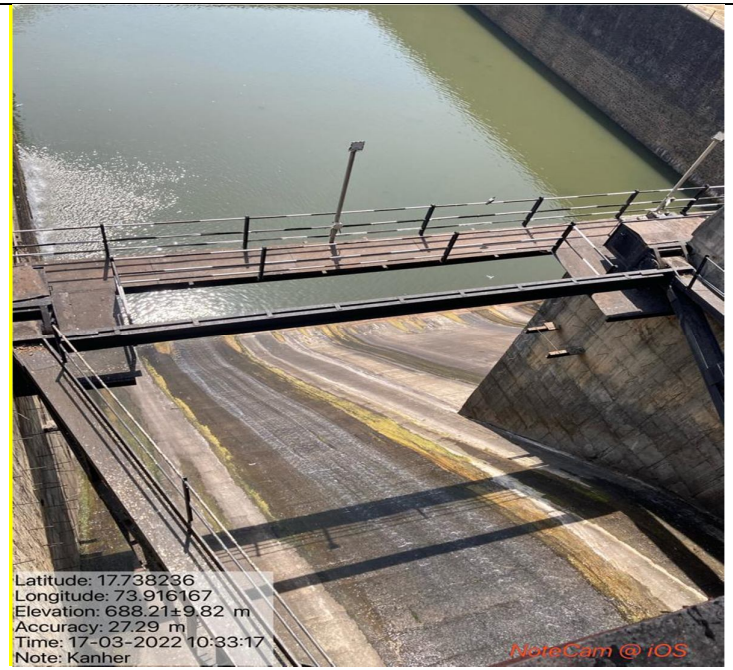
- A.1: Boil leakage/ seepage/ wet patches/ slushiness, in Earthen Dam.
- A 2: Standing pool / Ponding / Water Logging / Slushy condition on D/S of Dam
- A 3 : Leakages in vicinity of junction between earthen dam & masonry dam portion.
- A 4: Major leakages through outlet conduit/ pipe joints / Gates.
- A 5: Relief wells not functioning properly./ Abnormal rise in water level in wells.
- A 6: Outlet well is damaged/not in good condition /cracks observed/jets of water in well.
- A 7: Retrogression /scouring in tail channel.
- A 8: Drainage gallery inaccessible/No adequate lighting./ No dewatering arrangement or failure.
- A 9: Foundation drains / holes/ porous pipes/chocked/ no seepage through foundation drain holes.
- A 10: Heavy leakages through porous pipes/ through dam body in gallery /monolith joints.
- A 11 : Sweating / seepages through D/S of masonry dam
- A 12: Excessive considerable leaching from seepage water.
- A 13: Swelling / minor cracking observed on body of dam.
- A 14: EDA / Stilling basin damaged/Hydraulic performance not good.
- A 15: Leakages through spillway /piers//junction of flank wall.
- A 16: Damages / foundation erosion/ scour/undermining observed in vicinity of flank walls/ guide walls/ junction walls/return walls.
- A 17 :End weir not in good condition / scouring noticed on immediate D/S.
- A 18: Wire ropes of hoist not in good condition / hoisting structure damaged / cracked.
- A 19: Alternative power system Generator for gate operation not working properly.
- A 20: Operation of gates not smooth needs repair.
- B 2: Cross and toe drains not working properly/ drains silted or vegetated causing stagnant pool of water.
- B 3: Considerable settlement of embankment / Rock toe/Pitching/ U/S & D/S slops, bulging/concavity of slopes.
- B 4: Longitudinal / Transverse cracks/ low area/sink holes/gully formation on top side slope of earthen dam.
- B 5: Outlet gates not functioning properly. Stem rod is bent(Service gate/Emergency gate/Stop log gate/sluice gate)
- B 6: Approach to dam through all weather road not constructed/maintained properly.
- B 7: Waste weir/waste weir bar not in good condition/coping damaged/leakage through waste weir.
- B 8: Pointing on U/S face of dam not in good condition./deterioration spalling of concrete surface.
- B 9: Instruments not in working condition.
- B 10: Leakages through River sluice.
- B 11: Surface paint/steel surface of spillway gates deteriorated.
- B 12: Damage to Rubber seals/ considerable Leakages through gates.
- B 13: Heavy vegetation/big trees on embankment top/slope making dam portion not accessible.
- B 14: Deck bridge slab/ pier / damaged cracked/ alignment disturbed.
- B 15: Major portion of Pitching damaged/washed away.


15
17
2
5
6
18
8
4
19
1
3
8
55
1
20
A.1: Boil leakage/ seepage/ wet patches/ slushiness, in Earthen Dam.
A 2: Standing pool / Ponding / Water Logging / Slushy condition on D/S of Dam
A 3 : Leakages in vicinity of junction between earthen dam & masonry dam portion.
A 4: Major leakages through outlet conduit/ pipe joints / Gates.
A 5: Relief wells not functioning properly./ Abnormal rise in water level in wells.
A 6: Outlet well is damaged/not in good condition /cracks observed/jets of water in well.
A 7: Retrogression /scouring in tail channel.
A 16: Damages / foundation erosion/ scour/undermining observed in vicinity of flank walls/ guide walls/ junction walls/return walls.
B 1 Dam section is not as per design
B 2: Cross and toe drains not working properly/ drains silted or vegetated causing stagnant pool of water.
B3: Considerable settlement of embankment / Rock toe/Pitching/U/s & D/S slopes,bulging/Concavity of slopes
B 4: Longitudinal / Transverse cracks/ low area/sink holes/gully formation on top side slope of earthen dam.
B 5: Outlet gates not functioning properly. Stem rod is bent(Service gate/Emergency gate/Stop log gate/sluice gate)
B 6: Approach to dam through all weather road not constructed/maintained properly.
B 7: Waste weir/waste weir bar not in good condition/coping damaged/leakage through waste weir.


5.Dams Deficiencies
0
668
2721
Category-1
Category-2
Category-3

Annexure-2

Snapshots of Dams Inspected by DSO



Snapshot-1

Kanher Dam (Class-I)

Taluka –Satara **Dist**- Satara
Date of Inspection – 17.3.2022
Minor leakages from Radial Gate No.1 is observed.

Snapshot-2

Vadaj Dam (Class-I)

Taluka – Junnar **Dist**- Pune
Date of Inspection – 18.3.2022
To the immediate left side of non overflow section (NOF) it shows heavy leakages, record of the same is maintained by field officials with respect to dam reservoir level.

Snapshot – 3

Otur Waghdara Dam (Class-II)
Taluka – Junnar **Dist**-Pune
Date of Inspection – 22.10.2021
Leakages are observed on d/s side of the dam. Also water Ponding is observed on the d/s of dam

Snapshot -4

Shetphal Dam (Class-II)
Taluka – Indapur **Dist**-Pune
Date of Inspection – 30.1.2022
Earthen section seems to be under section in certain portion. At some places Gully formation and cuts are observed due to trespassers

Part-4

Annual Performance Report of Dam Instruments

Part-4: Annual Performance Report of Dam Instruments

4.1 General:

The main purpose of instrumentation in dam is to warn of any changes that could in danger the safety of a dam, as well as to provide a confirmatory check in design assumptions and methods of computation.

Instruments embedded in or installed at the surface of the dam keeps a constant watch over the performance and indicate the distress spots for which remedial measures may be taken. Thus, instruments play an important role in monitoring and evaluating the performance of the dams during the construction as well as operation.

In general it is observed that Dam Instrumentation is somewhat neglected part in Dam maintenance. Instruments are installed in or on the Dam Body. However due to poor Maintenance they are not functioning. It is must for field officers to recognize importance of data derived from instruments and its analysis to upkeep of Dams in safe condition.

4.2 Instrumentation in Earthen Dams :

1. Pore Pressure Meter :

They are installed in bore holes drilled below the foundation or through already completed embankment. Hence cannot be repaired or replaced.

2.Casagrande /Standpipe Piezometers :

These are used for measuring pore water pressure in soil. These instruments can be installed at any time at desired location after completion of construction of the dam.

3. Twin Tube Piezometers :

These are also used for measuring pore water pressure in earthen dam. These are installed in foundation and embankment during construction of dam. If PVC pipes are found chocked due to leached material then it can be cleaned with CuSo4. If pipes are cut / broken then it cannot be replaced as those are in body of dam. Outside measuring assembly can be repaired. Periodical maintenance, reading and calibration are of utmost important.

4. Earth Pressure Cells :

These are installed in the foundation. The cables which are outside the body can be replaced if damaged. The sensor cannot be repaired or replaced.

5. Settlement Gauges (Surface Settlement Gauges/Vertical Cross Arms) :

These are used for measuring settlement in earth fill dam, rock fill dam and high embankment. Initially when the dam is under construction these instruments are installed.

Settlement of dam is more in initial period, which gradually decreases and it is almost nil after certain period. As such these gauges also do not show settlement after few years.

6. Slope Indicator :

This is installed in foundation with one end at bottom and other at top of the dam.It measures horizontal and vertical movement of the dam. This can be replaced.

4.3 Instrumentation in Concrete / Masonry Dams :

1. Stress meters :

The stress meters measure stresses inside the dam body. These instruments are embedded in concrete/masonry during construction stage hence cannot be repaired or replaced.

2. Strain Meter/ No Stress Strain Meter :

The strain meters measures the deformation in the structure at the particular location due to strain, creep, temperature etc. The main purpose is to determine the stress distribution in the concrete dam during and after construction of dam. Since instrument is installed in the body of the dam it cannot be repaired or replaced.

3.Uplift pressure cells

The bowl type uplift pressure cells are provided in the foundation of dam. Uplift pressure cell is used for monitoring uplift pressure of water in the foundation of dam and concrete structure. The pressure cell pipes can be cleaned if choked. The pressure gauges can be repaired or replaced.

4. Plumb Bob /Co-Ordimeter :

Conventional / Inverted Plumb Bob is used to measure deflection of the dam body. It measures the horizontal displacement in dam's foundation and abutment. Plumb bob can be repaired or replaced.

5. Thermocouples/ Thermometers :

These are used to measure the temperature variations in the body of concrete dam. These are installed in layers at various levels and can not be replaced or repaired after construction.

6. Long Gauge Extensometer :

It is used to measure the deformation/displacement in the foundation of the concrete dam. Once it fails to function can not be repaired.

7. Joint meters :

The joint meters measure the opening of the joints across which they are embedded. As such they are located near the joints.

4.4 Status Of Dam Instrumentation In The Region :

Considering the fact that most of the instruments were non-functional from many years, Govt. of Maharashtra appointed a committee to study these instruments. The recommendations of the committee were accepted and incorporated in G.R. धसुसं २०१४(६२१/१४)/ सिं.व्य. (कामे) Dated. 31/12/2015. Accordingly to every dam owner, it is informed by Dam Safety Organization to update the list of instruments at the dam site. In this report the updated details of instruments are considered.

The status of dam instrumentation in the Pune region is given in table No.4.1. Similarly the details of mortality of instruments is given in table No.4.2 and comparison of mortality rate with respect to previous year is given in table no. 4.3

4.5 Observations

1) Various instruments numbering 1571 have been installed on these 27dams. Out of which 198 were working and 1373 were not working i.e. 87.39 % instruments are in non-working condition.
2) In the Pune Region instrument data reading are available from Koyna, Kolkewadi for Instrumentation data analysis report.
3) The observations of the instruments should be taken regularly and need to be sent to D.S.O. Nashik for analysis.
4) Comparison of mortality rate of instrument as compared to last year is given as per table No.3.3.

Table No. 4.1
Dam wise Status of Dam Instruments Installed on Large Dams
(Pune Region)

Sr. No.	Dam Name	Instrument Name	Date of Installation	Total	Functional Status (F/N.F)		Remark as per Pre -post monsoon report 2021
					Functional	Non Functional	
1	2	3	4	5	6	7	8
CHIEF ENGINEER (W.R), PUNE							
1	Bhatghar Dam	Uplift pressure cell	-	4	0	4	
		Plumb bob	-	1	0	1	
2	Pawana Dam	Twin tube Piezometer	-	49	0	49	
		Uplift pressure cell	-	8	0	8	
3	Panshet Dam	Twin tube Piezometer	-	52	0	52	No data
4	Varasgaon	Plumb bob	2015	2	2	0	
5	Veer	Casagrande piezometer	-	3	0	3	Not Installed As per the post Monsoon Report 2021
6	Nira deodhar	Casagrande piezometer	2005	6	6	0	∗ As per the post Monsoon Report 2021
		Twin tube piezometers	2005	75∗	75∗	0∗	
		Uplift pressure cells	2005	18	9	9	
		Settlement plug	2005	158	0	158	
		Plumb bob	2011	1	0	1	
7	Kasari Dam	Casagrande Piezometer	-	10	0	10	Not Installed As per the post Monsoon Report 2021
8	Dudhganga	Joint meters	-	4♦	0♦	4♦	♦ As per the post Monsoon Report 2021
		Pore pressure cells	81-86	26	0	26	
		Uplift pressure cells	81-85	32♦	0♦	32♦	
		cassagrande piezometers	1998	26	19	7	
9	Chilewadi	Cassagrande piezometers	-	10•	2•	8•	• As per the post monsoon report 2021
10	Bhama Askhed	Stand pipe piezometers	-	7♣	0♣	7♣	♣ As per the post monsoon report 2021 ♠As per IRD's inspection note dated 24.042015 forwarded vide letter No. 437 dated 13.05.2015
		Cassagrande piezometers	-	7♣	0♣	7♣	
		Twin tube Piezometers	-	59	0	59	
		♠Earth pressure cells	-	8	0	8	

		Strainmeters	-	2	0	2	
11	Warna	Foundation piezometers	-	12	0	12	All Non-Functional
		Embankment piezometers	-	71	0	71	
		Casagrande piezometer	-	17	0	17	
		Earth pressure cells	-	0	0	0	
		Slope Indicator	-	0	0	0	
		Pore pressure cells	-	38	0	38	
		Uplift Pressure cells	-	22	0	22	
12	Koyna Dam	Thermometers	2006	9#	0#	9#	# As per the post monsoon report 2021
		Stress meters	2006	3	0	3	
		Strain meters	2006	24#	0#	24#	
		Joint meters Mon 17	1972	5	0	5	
			2006	3#	0#	3#	
		Uplift pressure cells	1961	42	9	33	
			1972	4	0	4	
			2006	18#	0#	18#	
		Plumb bob Co-ordimeter Mon 22 & 25	1961	2	2	0	
		Piezometer	2006	4	0	4	
		Dial Guages		0	0	0	
		Tilt meter	2006	2	0	2	
13	Kolkewadi	Pore pressure cells	1972	7	0	7	$ As per the post monsoon report 2021
		Extentiometer Joint meter Special long	73-75	8	6	2	
		Joint meter	72-74	14	11	3	
		Uplift pressure cell	1976	30	0	30	
		Plumb bob Co-ordimeter	-	1	0	1	
		Reverse pendulum	-	1$	1$	0$	
	CE Wise Total for 13 Dams			**905**	**142**	**763**	

CHIEF ENGINEER (S.P), PUNE							
14	Dhom	Casagrande piezometer	1982	7	0	7	* As per the post Monsoon Report 2021
		Twin tube piezometers	1982	6*	3*	3*	
		Uplift pressure cells	1976	7	0	7	
15	Manikdoh	Plumb bob	1986	1	0	1	No Data
		Uplift Pressure Cells	1986	9	0	9	
			1986	7	0	7	
			1986	6	0	6	
16	Wadaj	Casagrande piezometers	1982	7	0	7	
			1982	7	0	7	
			1982	5	0	5	
		Stand pipe piezometers	1982	6	6	0	
			1982	10	0	10	
17	Yedgaon	Casagrande piezometers	1985 2014	40	0	40	
		Stand pipe piezometers	1985	0	0	0	
			1985	8	0	8	
18	Dimbhe	Plumb bob	N.A.	1	0	1	No data
			N.A.	0	0	0	
		Uplift Pressure cell	N.A.	11	0	11	
19	Kanher	Casagrande piezometer	1982	10	0	10	
		Twin tube piezometers	1982	47	0	47	
		Uplift pressure cells	1984	18	0	18	
		Plumb bob	1989	1	0	1	
20	Dhom balkawadi	Foundation piezometers	2006	6	0	6	
		Embankment piezometers	2006	70	0	70	
		Casagrande piezometer	2006	8	0	8	
		♥Earth pressure cells	2006	3	0	3	
21	Urmodi	Foundation Piezometers	1998	8	0	8	No Data
			2000	17	0	17	
			2000	8	0	8	

		Embankment Piezometers	1998	23	0	23	
			2000	19	0	19	
			2000	22	0	22	
		Casagrande piezometers		5	5	0	
		♥Earth pressure cells		27	0	27	
22	Ujjani	Plumb bob	Mar-83	1♦	1♦	0♦	♦ This is as per IRD's inspection note dated 07.09.2021
		Uplift pressure cells	Mar-83	22♦	11♦	11♦	
		Casagrande piezometers	81-82	27♦	25♦	2♦	
23	Mahu (u/c)	Twin Tube piezometers	2013	16	0	16	under construction
		Foundation piezometers	2013	12	0	12	
		Earth Pressure cell	2013	4	0	4	
24	Ghod	standpipe piezometer	-	5	5	0	
25	Tarali (2008) Dist :- Satara	Uplift pressure cells	2000	33	0	33	• As per the post monsoon report 2021
		Stress meters	May-08	5	0	5	
		Strain meters	May-08	5	0	5	
		Thermometers	Dec-09	10•	0•	10•	
		Plumb bob	Jan-15	1	0	1	
26	Morna Gurheghar (2010)	Foundation Piezometers	2000	14	0	14	
		Embankment piezometers	2000	36	0	36	
		Earth Pressure Cells	2000	6	0	6	
27	Uttar Mand (2010)	Foundation Piezometers	2000	24	0	24	Not Installed As per the post monsoon report 2021
		Embankment piezometers	2000	11	0	11	
		Earth Pressure Cells	2000	4	0	4	
CE Wise Total for 14 Dams				**666**	**56**	**610**	
PUNE Region Total for 27 Dams				**1571**	**198**	**1373**	

TABLE NO 4.2					
Mortality Status of Instruments installed on Large Dams					
(Pune Region)					
Sr. No.	**Type of Instruments**	**Numbers of Instruments**			
		Total	**Working**	**Non-Working**	**Mortality (%)**
1	2	3	4	5	6
(A) Earth Dams					
1	Casagrande / Stand pipe /Vibrating wire Piezometers	235	68	167	71.06
2	Twin tube Piezometers	657	78	579	88.13
3	Horizontal/Vertical device / Cross arm surface settlement plug	158	0	158	100
4	Earth pressure cells	52	0	52	100
5	Slope indicator	0	N.A	N.A	N.A
Total		**1102**	**146**	**956**	**86.75**
(B) Masonry Dams					
1	Pore pressure meters	71	0	71	100
2	Stress meter	8	0	8	100
3	Strain meter/ No stress-strain meter	31	0	31	100
4	Uplift pressure cells	291	29	262	90.03
5	Plumb bob/ Inverted Plumb Bob / co-ordimeter /pendulum	13	6	7	53.85
6	Long Gauge extensometer, Multiple Bore hole extensometer	0	N.A	N.A	N.A
7	Thermometers	19	0	19	100.00
8	Joint meters /Dial Gauge	34	17	17	50.00
9	Tilt meter	2	0	2	100.00
Total		**469**	**52**	**417**	**88.91**

	Instruments in	Total	Working	Non-Working	Mortality
A)	Earth Dams	1102	146	956	86.75
B)	Masonry Dams	469	52	417	88.91
	Grand Total	**1571**	**198**	**1373**	**87.40**

Table No. 4.3

Comparative Statement For Status of Instruments in Dams

Pune Region

Year		HSR 2020					HSR 2021				
Sr.No	Name of Chief Engineer	Total Dams	Total Instruments	Functioning	Not-Functioning	% functioning	Total Dams	Total Instruments	Functioning	Not-Functioning	% functioning
1	Chief Engineer (W.R) Pune	13	909	152	757	16.72	13	1102	146	956	13.25
2	Chief Engineer (S.P) Pune	14	667	59	608	8.85	14	469	52	417	11.09
	Total	**27**	**1576**	**211**	**1365**	**13.39**	**27**	**1571**	**198**	**1373**	**12.60**

Part-5

Annual Performance Report of Meteorological Instruments

Part- 5 : Annual Performance Report of Meteorological Instruments

5.1 General :

Hazard potential of dam depends upon the possible hazard it poses to population on the downstream during flood. In case of gated spillways, generally flood is considered to impinge when reservoir is at F.R.L. If flood forecasting and warning systems are in place, flood impingement can be considered at lower when F.R.L. considering prior depletion.

The establishment of hydro-meteorological stations in the vicinity of every Class-I dam and rain gauge network in its catchments assumes vital importance due to its role in flood forecasting and warning. The hydro-meteorological station shall be capable of recording data relating to, among other parameters, rainfall, atmospheric pressure, maximum & minimum temperature and humidity, wind speed, wind direction, height of waves and reservoir water temperature. It is important that a representative proportion of the rain gauge network is linked to flood forecasting and warning control center by telemetry.

5.2 Observations :

From Pre/Post Monsoon Reports it is seen that the ANNEXURE-IV which is "**Checklist of Various Meteorological Instruments installed on Dams**" is not filled properly and quantity of number of instruments varies from year to year. As this status of instruments is submitted to C.W.C., New Delhi. Field authorities need to make sure that correct information is filled. Table 4.1 gives thedamwise status of the meteorological instruments, and Table 4.2 gives the status of morality of meteorological instruments installed in the region.

1. As per Pre/Post Monsoon reports of Pune region it is seen that 178 various meteorological instruments installed on dams out of which 150 are functioning and 28 are non functioning. The non-functioning should be repaired/replaced on priority.
2. As per the government circular CDA-1013/(207/13)/CAD(works)/ August-2013. It is mandatory to install **Pan Evaporimeter** to measure evaporation on all major and medium projects.

Efforts should be taken by field officers to establish automatic flood warning systems which will help in saving lives, livestock and property and will invariantly contribute to lessening of the overall impact of floods.

Table - 5.1

Status of Dam Meteorological instrumentation

(Pune region)

Sr. No.	Name of Dam	Name of instruments	No. of instru-ments	Performance		Status of Data Analysis
				Working	Not Working	
1	2	3	4	5	6	7
1	Bhatghar Dist-Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge on dam (Self recorder)	1	1	0	
		3)Rain Gauge in the catchment (Self Recorder)	3	3	0	
2	Nazare Dist- Pune	1)Rain Gauge on dam (Ordinary)	1	1	0	Data collection is done at field level
		2)Pan evaporimeter	1	1	0	
		3)Water level recorder	1	1	0	
3	Khadakwasala Dist- Pune	1)Rain Gauge on dam (Ordinary)	1	1	0	Data collection is done at field level
		2)Pan evaporimeter	1	1	0	
4	Pawana Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Pan evaporimeter	1	1	0	
5	Panshet Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Reservoir Level Gate	1	1	0	
6	Kasarsai Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
7	Varasgaon Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge on dam (self recorder)	1	1	0	
		3)Pan evaporimeter	1	0	1	Data collection is done at field

						level
		4)Rain Gauge in catchment (Self recorder)	1	1	0	Data collection is done at field level
8	Veer Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in catchment(ordinary)	2	2	0	
		3)Rain Gauge in catchment (Self recorder)	1	1	0	
		4)Pan evaporimeter	1	1	0	
9	Yedgaon Dist- Pune	1)Rain Gauge on dam (Ordinary)	1	1	0	Data collection is done at field level
		2)Pan evaporimeter	1	0	1	
		3)Wind velocity recorder	1	0	1	
		4)Wind direction recorder	1	0	1	
10	Andravalley Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge on dam (self recorder)	1	1	0	
11	BhamaAskhed Dist- Pune	1)Rain Gauge on dam (ordinary)	1	0	1	Data collection is done at field level
		2)Pan evaporimeter	1	0	1	
		3)Rain Gauge on dam (self Recorder)	1	1	0	
		4)Rain Gauge in catchment(self recorder)	2	2	0	
		5)Gate Sensors (Other part)	4	4	0	
12	NiraDeoghar Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge on Dam (Self Recorder)	1	1	0	
		3)Rain Gauge in catchment (Self Recorder)	3	3	0	
		4)Pan Evaporimeter	1	1	0	
		5)Wet & Dry bulb thermometer	1	1	0	

		6) Barometer	1	1	0	
		7)Reservoir Level Gate	1	1	0	
13	Temghar Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
14	Vadivale Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge on dam (Self Recorder)	1	1	0	
15	Ghod Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Pan evaporimeter	1	1	0	
		3)Wind direction recorder	1	0	1	
16	Dimbhe Dist- Pune	1)Rain Gauge ion dam(ordinary)	2	2	0	Data collection is done at field level
		2)Pan Evaporimeter	1	1	0	
		3)Rain Gauge in Catchment	3	3	0	
17	ChaskamanDist-Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in catchment(ordinary)	2	2	0	
18	ManikdohDist-Pune	1) Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in catchment(ordinary)	1	1	0	
		3)Pan evaporimeter	1	1	0	
		4)Wind Velocity recorder	1	1	0	
		5)Wind Direction Recorder	1	1	0	
19	AralaKalmodiDist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
20	Wadaj Dist- Pune	1) Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Pan evaporimeter	1	1	0	
21	Chilewadi Dist- Pune	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in catchment (self recorder)	1	1	0	

22	PimpalgaonJoge Dist- Pune	1)Rain Gauge on dam (ordinary)	2	2	0	Data collection is done at field level
		2)Rain Gauge in catchment	1	1	0	
		3)Pan evaporimeter	1	0	1	
23	Adale Dist- Pune	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
24	MarnewadiDist - Pune	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field level
25	ThitewadiDist- Pune	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
26	Kadus Dist- Pune	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field level
27	AlegaonPagaDist- Pune	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
28	DahiwadiDist- Pune	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
29	KolkewadiDist- Satara	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in catchment	2	2	0	
30	Shere Dist- Pune	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
31	Gohe Dist- Pune	1) Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
32	JadhavwadiDist- Pune	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field level
33	Koyna Dist-Satara	1)Rain Gauge on Dam (ordinary)	6	6	0	Data collection is done at field
		2)Pan Evaporimeter	1	1	0	

		3)Wind velocity recorder	1	1	0	level
		4)Wind direction recorder	1	1	0	
		5)Wet/dry bulb thermometer	1	1	0	
		6)Thermometer for air Temp	2	2	0	
34	Dhom Dist-Satara	1)Rain Gauge on dam (ordinary)	2	2	0	Data collection is done at field level
		2)Pan Evaporimeter	1	1	0	
35	MornaGuheghar Dist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
36	UttaramandDist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
37	DhomBalkawadi Dist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Pan Evaporimeter	1	1	0	
38	Mahu Dist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
39	HatgegharDist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
40	Tarali Dist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge on dam (Self Recorder)	1	0	1	
		3)Pan Evaporimeter	1	1	0	
41	NagewadiDist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
42	UrmodiDist-Satara	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in catchment (ordinary)	2	2	0	
43	DudhgangaDist-Kolhapur	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field
		2)Rain Gauge on dam (Self	1	0	1	

		Recorder)				level
		3)Rain Gauge in catchment(ordinary)	2	2	0	
		4)Rain Gauge in catchment (self recorder)	1	0	1	
		5)Pan evaporimeter	1	1	0	
44	Chitri Dist-Kolhapur	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
45	Kumbhi Dist-Kolhapur	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
46	RadhanagariDist-Kolhapur	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
47	TulshiDist-Kolhapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
48	PatgaonDist-Kolhapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
49	ChikotraDist-Kolhapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
50	KadaviDist-Kolhapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in Catchment	2	2	0	
51	SinakolegaonDist-Osmanabad	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
		2)Pan evaporimeter	1	1	0	
		3)Wind velocity recorder	1	1	0	
		4)Wind direction recorder	1	1	0	
		5)Wet/dry bulb thermometer	1	1	0	
52	GhatprabhaDist-Kolhapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level

53	KasariDist-Kolhapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field level
54	Ujjani Dist-Solapur	1)Rain Gauge on dam (self recorder)	2	1	1	Data collection is done at field level
		2)Rain Gauge in catchment (ordinary)	4	4	0	
		3)Pan evaporimeter	1	1	0	
		4)Wind velocity recorder	1	0	1	
		5)Wind direction recorder	1	0	1	
		6)Wet/Dry bulb thermometer	1	0	1	
		7)Thermometer For air temp	1	0	1	
55	Bori Dist-Solapur	1)Wind velocity recorder	1	1	0	Data collection is done at field level
		2)Wind direction recorder	1	1	0	
56	Ekrukh Dist-Solapur	1)Rain Gauge on dam (Ordinary)	1	1	0	Data collection is done at field level
57	ChikhalgiDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field
58	JawalgaonDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field
59	KazikanbusDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field level
60	MangiDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field
61	Koregaon Dist-Solapur	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field
62	ChincholiDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field
63	Budhihal Dist- Sangali	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field
64	TalasangiDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field
65	PadawalkarwadiDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field

66	AshtiDist-Solapur	1)Rain Gauge on Dam (Self Recording)	1	0	1	Data collection is done at field
67	PathariDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	0	1	Data collection is done at field
68	Hingani (k) Dist-Solapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field
69	Hingani (p) Dist-Solapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field
70	RajuriDist-Solapur	1)Rain Gauge on Dam (ordinary)	1	1	0	Data collection is done at field
71	MornaShiralaDist-Sangali	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field
72	PratapurDist-Sangali	1)Rain Gauge on dam (ordinary)	1	0	1	Data collection is done at field
73	BangangaDist-Sangali	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field
74	Warna Dist-Kolhapur	1)Rain Gauge on dam (ordinary)	1	1	0	Data collection is done at field level
		2)Rain Gauge in catchment (ordinary)	2	2	0	
		3)Rain Gauge on dam (self recorder)	1	1	0	
		4)Rain Gauge in catchment (self recorder)	3	3	0	
75	SinaDist-Pune	1)Rain Gauge on dam	1	1	0	Data collection is done at field level
TOTAL			**178**	**150**	**28**	

Table No. 5.2

Mortality status of Meteorological Instruments Installed on Dam

Sr. No.	Type of Instruments	Number Of Instruments			
		Total	Working	Non-Working	Mortality (%)
1	2	3	4	5	6
1	Rain gauge on dam (Ordinary)	80	68	12	15.00
2	Rain gauge on dam (Self Recorder)	12	8	4	33.33
3	Rain gauge in catchment (Ordinary)	23	23	0	0.00
4	Rain gauge in catchment (Self Recorder)	15	14	1	06.66
5	Pan Evaporimeter	20	16	4	20.00
6	Wind velocity recorder	6	4	2	33.33
7	Wind direction recorder	7	4	3	42.85
8	Wet/dry bulb thermometer	4	3	1	25.00
9	Thermometer for air Temp	3	2	1	33.33
10	Thermometer for reservoir water	0	0	0	0.00
11	Water level Recorder	1	1	0	0.00
12	Barometer	1	1	0	0.00
13	Sun shine recorder	0	0	0	0.00
14	Max & Min thermometer	0	0	0	0.00
15	Wave height recorder	0	0	0	0.00
16	Hydrometer	0	0	0	0.00
17	Humidity Meter	0	0	0	0.00
18	Automatic fully climatological station	0	0	0	0.00
19	Stevenmeter	0	0	0	0.00
20	DWLL	0	0	0	0.00
21	Other Instruments	6	6	0	0.00
Total		**178**	**150**	**28**	**15.73**

Part-6

National Committee on Dam Safety (NCDS) Documents

Part-6 National Committee on Dam Safety (NCDS) Documents

Importance of National Committee on Dam Safety (NCDS) Documents:

Central Water Commission (CWC) has laid down various guidelines covering the standardized dam safety practices-essentially guiding the dam owners in preparation of Emergency Action Plans, Periodical Dam Safety inspections, comprehensive dam Safety evaluation and appropriate institutional framework for dam safety. Their implementation is emphasized during the meetings of National Committee on Dam Safety (NCDS) and through the communications sent in this regard.

During the 34th meeting held at Chennai in March 2015 it was requested to all the Dam owners to take necessary steps for preparation of EAPs & other documents & report to NCDS Secretariat about the number of Dams for which EAPs & other documents have been prepared, along with the target dates for the preparation of EAPs & other documents for the remaining Dams.

The documents to be prepared as per National Committee on Dam Safety are as under & these shall be properly maintained and kept up to date by including latest information available.

1. EAP

2. R.O.S & G.O.S.

3. Data Book

4. O & M manual

5. Record Drawing & Completion Report,

1. EAP : Emergency Action Plan:

An Emergency action plan is a formal plan that identifies potential emergency conditions at a dam prescribes the procedures to be followed to minimize property damage and loss of life. The EAP contains procedures and information to assist the dam owner in taking necessary actions in time to moderate or alleviate the problems, in addition to issuing early warning & notification messages to responsible emergency management

authorities,viz.,DistrictMagistrate/Collector, Armed Forces, Paramilitary forces, Project Authorities & other Central/State Agencies. It also contains inundation maps to show the emergency management authorities of the critical areas for necessary relief and rescue actions in case of an emergency. In a nutshell, it outlines “who does, what, where, when and how” in an emergency situation or unusual occurrence affecting the Dams.The Emergency Action Plan has to be prepared as per CWC Guidelines are available on official website-

https://damsafety.in/ecm-includes/PDFs/Guidelines_Developing_EAP_Dam.pdf

2. R.O.S. (Reservoir operation schedule) & G.O.S. (Gate operation schedule) :

It is very necessary to lay down operating procedures of all storage reservoirs with the objective to limit the flood stages in the river downstream and with maximum feasible utilization of the flood capacity of the river channel downstream of reservoirs, consistent with the safety of the dam. A proper reservoir operation schedule should be in place.

For this purpose a schedule of opening and closing the gates to limit the reservoir levels to preset gauges should be laid down. Schedule for the dam as per operation & maintenance manual should be strictly adhered. The entire capacity of reservoir is used for active conservation. When the reservoir rises above active conservation, operation will be in accordance with the standing operation procedures. Inflow forecasting arrangement should be made for easy operation of gates. The Engineer in charge should inform immediately to the flood maintenance engineer downstream and flood –fighting center of the releases from the reservoir.

3. Data book:

Proper assessment of dam safety involves a thorough review of design, construction and performance records prior to conducting a field examination. The Data Book is an unpublished document which is prepared before the initial safety inspection of each dam. This book is abbreviated, convenient source of information, summarizing all pertinent records and history related to the safety of a dam and is a reference for the evaluation team. This Data Book should answer most questions about the dam. A list of reference is included if additional information is needed. Continual updating of the Data Book will be required as future inspections are

made, new problems arise, new investigations are undertaken and remedial treatments performed. Documentation of all projects may be done in the Data Book format which is the primary data base for the team evaluating the safety of a dam. (Guidelines on standardized Data Book format are available at http://www.cwc.gov.in/ Dam_safety.html)

4. O & M Manual:

It is desirable that a separate manual is available with the officers .The officers Incharge of such works are requested to personally go through the manual and maintain the records from time to time in such a manner as to give their successors complete and correct idea of the state of each of the several storage works in their charge and the different standing orders on all matters concerning the works. This will enable them to tackle problems as they arise, by quickly referring to the manual as far as possible without having to depend on the office to give information. The complete set of manual for each of the storage works should be personally handed over to successor by each concerned officer.

Copies of the maintenance manual shall be maintained at all offices right from sectional office to Circle office.

It is also necessary that the manuals are inspected at the time of inspection by the superior officers. Record of handing over and inspection should be maintained.

5. Record Drawing & Completion Report :

The importance of record drawings & completion report as an archival data need not be emphasized. All efforts should be made by field engineers to prepare Record Drawing & Completion Report and store them for future reference.

Table-6.1 Status of Emergency Action Plan (EAP)

Sr. No.	Name of CE	Total	Received	Not Received	Remarks
1	C.E. (W.R.)Pune	**48**	**24**	**24**	All EAP must be updated as per CWC guide lines 2016 & copy of EAP should be made available to DSO.
2	C.E. (S.P.) Pune	**21**	**5**	**16**	
3	Private Dams	7	0	7	
	Total	**76**	**29**	**47**	

Table-6.2 Status of Reservoir Operation Schedule (ROS)

Sr. No.	Name of CE	Total	Received	Not Received	Remarks
1	C.E. (W.R.)Pune	**24**	**22**	**2**	Updated copy of ROS should be made available to DSO.
2	C.E. (S.P.) Pune	**14**	**12**	**2**	
3	Private Dams	2	1	1	
	Total	**40**	**35**	**5**	

Table-6.3 Status of Gate Operation Schedule (GOS)

Sr. No.	Name of CE	Total	Received	Not Received	Remarks
1	C.E. (W.R.) Pune	**24**	**22**	**2**	Updated copy of GOS should be made available to DSO.
2	C.E. (S.P.) Pune	**14**	**8**	**6**	
3	Private Dams	2	0	2	
	Total	**40**	**30**	**10**	

Table-6.4 Dam Wise Status of GOS & ROS, EAP (Class-I Dams)

Sr.No.	Name of dam	GOS	ROS	EAP
1	2	3	4	5
Pune Region				
A)Chief Engineer(W.R.)Water Resources Department Pune				
I) Superintending Engineer, Pune Irrigation Circle, Pune				
1) Executive Engineer , Pune Irrigation Division, Pune				
1	Jadhavwadi(UG)	-	-	NR
2	Niradevghar	NR	R(2006)	R(2007)
3	Bhatghar(AG)	AG	AG	R(2006)
4	Vadivale	R(2002)	R(2009)	R(2006)
5	Andravalley(UG)	-	-	R(2014)
6	Kasarsai	NR	R(2007)	NR
2) Executive Engineer ,Chaskaman Irrigation division, Pune				
7	Aralakalmodi(UG)	-	-	R(2014)
8	BhamaAskhed	NR	R(2015)	R(2014)
9	Chaskaman	NR	R(2015)	NR
3) Executive Engineer , Lift Irrigation Management Division, Pune				
10	Nazare(AG)	AG	AG	NR
4) Executive Engineer ,Khadakwasala Irrigation Division, Pune 11				
11	Panshet	NR	R(2015)	NR
12	Khadakvasal	NR	R(2015)	NR
13	Warasgaon	NR	R(2015)	NR
14	Pawana	NR	R(2015)	NR
5)Executive Engineer, Nira Right Bank Canal Division, Phaltan ,Dist. Satara				
15	Veer	R(1990)	R(2010)	R(1993)
II) Superintending Engineer, Pune Irrigation Project Circle,Pune				
1) Executive Engineer, BhamaAskhed Dam Division, Pune				
16	Temghar(UG)	-	-	R(2006)
2)Executive Engineer, Niradevghar Project Division, Sangavi(Bhatghar),Tal.Bhor,Dist.Pune				
17	Gunjavani	NR	NR	R(2004)
III) Superintending EngineerSangli Irrigation circle, Sangli				

Sr.No.	Name of dam	GOS	ROS	EAP
1	2	3	4	5
1) Executive Engineer ,Sangli Irrigation Division, Sangli				
18	Morna (Shirala) (UG)	–	–	NR
2)Executive Engineer ,Tembhu Lift Irrigation Project Managementb Division, Ogalewadi				
19	YevatiMasoli(UG)	–	–	NR
3)Executive Engineer ,Takari Pump House Division No.1, Devrashtre				
20	Satpewadi Barrage	NR	NR	NR
IV) Superintending Engineer Kolhapur Irrigation Circle, Kolhapur				
1) Executive Engineer , Medium Project Division No2, Kolhapur				
21	Ghatprabha(Phatakwadi) (UG)	–	–	NR
22	Chikotra	NR	R(2015)	NR
23	Jangamhatti(UG)	–	–	NR
24	Keloshi Bk. (UG)	–	–	NR
25	Jambre(UG)	-	-	NR
2)Executive Engineer, Kolhapur Irrigation Dn.(North) Kolhapur				
26	Kadavi(UG)	–	–	NR
27	Kasari	NR	R(2015)	NR
28	Kumbhi	NR	R(2008)	NR
29	Paleshwar(UG)	–	–	R(2014)
30	Tulashi	R(1998)	R(2007)	R(1998)
31	Upwade(UG)	–	–	NR
32	Radhanagari(UG)	AG	AG	NR
33	Warana	R(1999)	R(2007)	R(2007)
34	Dudhaganga	R(1997)	R(2009)	R(2007)
3)Executive Engineer, Kolhapur Irrigation Dn.(South) Kolhapur				

Sr.No.	Name of dam	GOS	ROS	EAP
1	2	3	4	5
35	Patgaon(UG)	–	–	NR
36	Ambewadi(UG)	–	–	NR
37	Chitri(UG)	–	–	NR
38	Kitwad-2(UG)	–	–	R(2014)
39	Kondoshi(UG)	–	–	R(2014)
40	Lakikatti(UG)	–	–	R(2014)
41	Megholi(UG)	–	–	R(2010)
42	Phaye(UG)	–	–	R(2014)
V)Superintending EngineerSatara Irrigation Circle, Satara				
1)Executive Engineer, Koyna Irrigation Division Koynanagar				
43	Koyna	R (2006)	R(2009)	R(2010)
44	Kolkewadi	R (1990)	R(2009)	R(2011)
2)Executive Engineer, Satara Irrigation Division Satara				
45	Dhom	R(1984)	R(2007)	R(2001)
46	Dhombalkawadi	R(2016)	R(2007)	R(2008)
3)Executive Engineer, Krishna Irrigation Division, Satara				
47	Urmodi	NR	R(2015)	R(2008)
48	Kanher	R(1984)	R(2015)	R(2001)
	Total	**24**	**24**	**48**
	(R) Received	**10**	**22**	**24**
	(NR) Not Received	**14**	**02**	**24**
B)Chief Engineer(S.P.) Water Resources Department Pune				
I) Superintending Engineer Kukadi Irrigation Circle Pune				

Sr.No.	Name of dam	GOS	ROS	EAP
1	2	3	4	5
1) Executive Engineer, Kukadi Irrigation Div. 1 Narayangaon				
49	Wadaj	R(1990)	R(2015)	NR
50	Yedgaon	R(1989)	R(2015)	R(1983)
51	Manikdoh	R(1990)	R(2007)	NR
52	Pimpalgaonjoge	NR	R(2015)	NR
53	Dimbhe	R(2007)	R(2007)	R(2014)
2)Executive Engineer, Kukadi Irrigation Div.2 Shrigonda				
54	Ghod	R(1997)	R(2015)	NR
3)Executive Engineer ,Kukadi Irrigation Division No. 2, Shrigonda				
55	Sina(UG)	-	-	NR
4)Executive Engineer, Dimbhe Dam Div. Manchar				
56	Chillewadi	R(2014)	R(2015)	R(2014)
II) Superintending EngineerSatara Irrigation Project Circle, Satara				
1) Executive Engineer , Minor Irrigation Division, Satara				
57	Uttarmand	NR	R(2015)	NR
58	Morna(Gureghar)	NR	R(2016)	NR
59	Nagewadi(UG)	–	–	NR
60	Kusawade(UG)	-	-	NR
61	Kalgaon(UG)	-	-	NR
62	Pangare(UG)	-	-	NR
2)Executive Engineer ,Kanher Canal Division No.2, Karwadi,Karad.				
63	Tarali	NR	R(2016)	R(2008)
3)Executive Engineer, Dhom Canal Division No.2,Satara				
64	Mahu	NR	NR	NR

Sr.No.	Name of dam	GOS	ROS	EAP
1	2	3	4	5
65	Hatgeghar(UG)	–	–	NR
III) Superintending Engineer & Administrator, C.A.D.A. Solapur				
1) Executive Engineer, Solapur Irrigation Division Solapur				
66	Bori	R(2007)	R(2007)	NR
67	Ekrukh(UG)	–	–	NR
2)Executive Engineer, Ujjani Dam Management Division Bhimanagar Dist. Solapur				
68	Ujjani	R(1990)	R(2015)	R(2007)
IV)Superintending Engineer Osmanabad Irrigation Circle Osmanabad				
1)Executive Engineer, Sinakolegaon Project Division ParandaDist.Osmanabad				
69	Sinakolegaon	NR	NR	NR
	Total	**14**	**14**	**21**
	(R) Received	**8**	**12**	**5**
	(NR) Not Received	**6**	**2**	**16**
Private Dam				
Tata Power Co, Ltd. Khopoli				
1	Mulsi	NR	R(2016)	NR
2	Shirvata(AG)	-	-	NR
3	Thokarwadi	NR	NR	NR
4	Walvan(AG)	-	-	NR
Ambevally (SAHARA)				
5	Ambewane (UG)	-	-	NR
6	Visakhar (UG)	-	-	NR
7	Koliwali (UG)	-	-	NR

Sr.No.	Name of dam	GOS	ROS	EAP
1	2	3	4	5
	Total	**2**	**2**	**7**
	(R) Received	**0**	**1**	**0**
	(NR) Not Received	**2**	**1**	**7**

Table-6.5 Status of Other NCDS Documents (Class-I Dams)

Sr. No.	Name of CE	Total no. Of dams	Completion Report		Record Drawing		Data Book		O&M Manual	
			Received	Not Received	Received	Not Received	Received	Not Received	Received	Not Received
1	CE, WR Pune	48	5	43	17	31	9	39	5	43
2	CE, SP, Pune	21	0	21	0	21	1	20	1	20
	Private Dam	7	0	7	0	7	0	7	0	7
	Total	**76**	**5**	**71**	**17**	**59**	**10**	**66**	**6**	**70**

Table-6.6 Dam Wise Status of Other NCDS Documents

Sr.No.	Name of dam	Completion Report	Record Drawing	Data Book	O& M Manual
1	2	3	4	5	
Pune Region					
A)Chief Engineer(W.R.)Water Resources Department Pune					
I) Superintending Engineer, Pune Irrigation Circle, Pune					
1) Executive Engineer , Pune Irrigation Division, Pune					
1	Jadhavwadi	NR	NR	NR	NR
2	Niradevghar	NR	NR	NR	NR
3	Bhatghar	R	R	NR	R
4	Vadivale	NR	NR	NR	NR
5	Andravalley	NR	NR	NR	NR
6	Kasarsai	NR	NR	NR	NR
2) Executive Engineer ,Chaskaman Irrigation division, Pune					
7	Aralakalmodi	NR	NR	NR	NR
8	BhamaAskhed	NR	NR	NR	NR
9	Chaskaman	NR	R	NR	NR
3) Executive Engineer , Lift Irrigation Management Division, Pune					
10	Nazare	R	R	R	R
4) Executive Engineer ,Khadakwasala Irrigation Division, Pune 11					
11	Panshet	NR	R	R	NR
12	Khadakwasala	NR	NR	NR	NR
13	Warasgaon	NR	R	NR	NR
14	Pawana	NR	R	NR	NR
5)Executive Engineer, Nira Right Bank Canal Division, Phaltan ,Dist. Satara					
15	Veer	R	R	R	R
II) Superintending Engineer, Pune Irrigation Project Circle,Pune					
1) Executive Engineer, BhamaAskhed dam division, Pune					
16	Temghar	NR	NR	NR	NR
2)Executive Engineer, Niradevghar Project Division, Sangavi(Bhatghar),Tal.Bhor,Dist.Pune					
17	Gunjavani	NR	NR	NR	NR

Sr.No.	Name of dam	Completion Report	Record Drawing	Data Book	O& M Manual
1	2	3	4	5	
III) Superintending EngineerSangli Irrigation circle, Sangli					
1) Executive Engineer ,Sangli Irrigation Division, Sangli					
18	Morna (Shirala)	NR	NR	NR	NR
2)Executive Engineer ,Tembhu Lift Irrigation Project Managementb Division, Ogalewadi					
19	YevatiMasoli	NR	NR	NR	NR
3)Executive Engineer ,Takari Pump House Division No.1, Devrashtre					
20	Satpewadi Barrage	NR	NR	NR	NR
IV) Superintending Engineer Kolhapur Irrigation Circle,Kolhapur					
1) Executive Engineer , Medium Project Division No2, Kolhapur					
21	Ghatprabha(Phatakwadi	NR	NR	NR	NR
22	Chikotra	NR	R	NR	NR
23	Jangamhatti	NR	NR	NR	NR
24	Keloshi Bk.	NR	NR	NR	NR
25	Jambre	NR	NR	NR	NR
2)Executive Engineer, Kolhapur Irrigation Dn.(North) Kolhapur					
26	Kadavi	NR	NR	NR	NR
27	Kasari	NR	R	NR	NR
28	Kumbhi	NR	NR	NR	NR
29	Paleshwar	NR	NR	R	NR
30	Tulashi	NR	R	NR	NR
31	Upwade	NR	NR	R	NR
32	Radhanagari	NR	R	NR	NR
33	Warana	NR	R	R	NR

Sr.No.	Name of dam	Completion Report	Record Drawing	Data Book	O& M Manual
1	2	3	4	5	
34	Dudhaganga	NR	NR	R	NR
3)Executive Engineer, Kolhapur Irrigation Dn.(South) Kolhapur					
35	Patgaon	NR	R	NR	NR
36	Ambewadi	NR	NR	NR	NR
37	Chitri	NR	NR	NR	NR
38	Kitwad-2	NR	NR	NR	NR
39	Kondoshi	NR	NR	NR	NR
40	Lakikatti	NR	NR	NR	NR
41	Megholi	NR	NR	NR	NR
42	Phaye	NR	NR	NR	NR
V)Superintending EngineerSatara Irrigation Circle, Satara					
1)Executive Engineer, Koyna Irrigation Division Koynanagar					
43	Koyna	R	R	R	R
44	Kolkewadi	R	R	R	R
2)Executive Engineer, Satara Irrigation Division Satara					
45	Dhom	NR	R	NR	NR
46	Dhombalkawadi	NR	NR	NR	NR
3)Executive Engineer, Krishna Irrigation Division, Satara					
47	Urmodi	NR	NR	NR	NR
48	Kanher	NR	R	NR	NR
	Total	**48**	**48**	**48**	**48**
	(R) Received	**5**	**17**	**9**	**5**

Sr.No.	Name of dam	Completion Report	Record Drawing	Data Book	O& M Manual
1	2	3	4	5	
	(NR) Not Received	**43**	**31**	**39**	**43**
B)Chief Engineer(S.P.) Water Resources Department Pune					
I) Superintending Engineer Kukadi Irrigation Circle Pune					
1) Executive Engineer, Kukadi Irrigation Div. 1 Narayangaon					
49	Wadaj	NR	NR	NR	NR
50	Yedgaon	NR	NR	NR	NR
51	Manikdoh	NR	NR	NR	NR
52	Pimpalgaonjoge	NR	NR	NR	NR
53	Dimbhe	NR	NR	NR	NR
2)Executive Engineer, Kukadi Irrigation Div.2 Shrigonda					
54	Ghod	NR	NR	NR	NR
3)Executive Engineer ,Kukadi Irrigation Division No. 2, Shrigonda					
55	Sina	NR	NR	NR	NR
4)Executive Engineer, Dimbhe Dam Div. Manchar					
56	Chillewadi	NR	NR	NR	NR
II) Superintending EngineerSatara Irrigation Project Circle, Satara					
1) Executive Engineer , Minor Irrigation Division, Satara					
57	Uttarmand	NR	NR	NR	NR
58	Morna(Gureghar)	NR	NR	NR	NR
59	Nagewadi	NR	NR	NR	NR
60	Kusawade	NR	NR	NR	NR
61	Kalgaon	NR	NR	NR	NR
62	Pangare	NR	NR	NR	NR

Sr.No.	Name of dam	Completion Report	Record Drawing	Data Book	O& M Manual
1	2	3	4	5	
2)Executive Engineer ,Kanher Canal Division No.2, Karwadi,Karad.					
63	Tarali	NR	NR	NR	NR
3)Executive Engineer, Dhom Canal Division No.2,Satara					
64	Mahu	NR	NR	NR	NR
65	Hatgeghar	NR	NR	NR	NR
III) Superintending Engineer & Administrator, C.A.D.A. Solapur					
1) Executive Engineer, Solapur Irrigation Division Solapur					
66	Bori	NR	NR	NR	NR
67	Ekrukh	NR	NR	NR	NR
2)Executive Engineer, Ujjani Dam Management Division Bhimanagar Dist. Solapur					
68	Ujjani	NR	NR	R	R
IV)Superintending Engineer Osmanabad Irrigation Circle Osmanabad					
1)Executive Engineer, Sinakolegaon Project Division ParandaDist.Osmanabad					
69	Sinakolegaon	NR	NR	NR	NR
	Total	**21**	**21**	**21**	**21**
	(R) Received	0	0	1	1
	(NR) Not Received	21	21	20	20
Private Dam					
Tata Power Co, Ltd. Khopoli					
1	Mulsi	NR	NR	NR	NR
2	Shirvata(AG)	NR	NR	NR	NR
3	Thokarwadi	NR	NR	NR	NR
4	Walvan(AG)	NR	NR	NR	NR

Sr.No.	Name of dam	Completion Report	Record Drawing	Data Book	O& M Manual
1	2	3	4	5	
Ambevally (SAHARA)					
5	Ambewane (UG)	NR	NR	NR	NR
6	Visakhar (UG)	NR	NR	NR	NR
7	Koliwali (UG)	NR	NR	NR	NR
	Total	**7**	**7**	**7**	**7**
	(R) Received	**0**	**0**	**0**	**0**
	(NR) Not Received	**7**	**7**	**7**	**7**

Part-7

Dam Health &Rehabilitation Monitoring Application (DHARMA)

Part-7 DHARMA: Dam Health and Rehabilitation monitoring application

Introduction :

Dam health & Rehabilitation Monitoring application (DHARMA) is a web based asset management software to support the effective collection and management of authentic asset and health data for all large dams in India and address key dam safety challenges of

i)Insuring Completeness of information.

ii) Bring stake holders together

iii) Effectively managing asset inventory.

iv) Assess soundness of dame health.

Design and Development :

DHARMA software will consist of seven modules.

i)project features

ii) Project portfolio

iii) Engineering features.

iv)Asset health.

v) Asset rehabilitation.

vi) Stake holders and

vii) Document library.

The first three modules (i to iii consist of mostly static data, to be enter once and rarely undergo a change where as modules iv) and v) will be dynamic and requires regular updating with information associated with inspections investigations, instrumentation and rehabilitation works. Modules vi) and vii)contain information useful for reference.

All field EE's are required to fillup attached two forms (Dam Data Manager & Dam Health Engineer) for each Dam in their jurisdiction by 15th July 2021 & its review will be taken by Hon. DG, MERI, Nashik by 15th Aug 2021.

DHARMA Application User Registration Form

Dam Data Manager

1.	Date of Application:	< dd/mm/yyyy>		
2.	Type of User:	DamDataManager		
3.	Name of the Applicant:	<Title>. <Name>		
4.	Designation:			
5.	Name of the Organization:			
6.	Complete Postal Address:			
7.	Email ID:			
8.	Mobile Number:		Office Tel. Number:	
9.	Current Responsibilities:	☐ Coordinating DamSafety ☐ Water ResourceManagement ☐ DamDesign ☐ Dam Construction /Rehabilitation ☐ DamOperations ☐ Academic /Research ☐ Other: <pleasespecify>		
10.	Viewing Permission Required for:	☐ ProjectFeatures ☐ ProjectPortfolio ☐ EngineeringFeatures		
11.	Editing Permission Required for:	☐ ProjectFeatures ☐ ProjectPortfolio ☐ EngineeringFeatures		
12.	Provide List of Dams			

Please select out of the choice provided; add separate sheets for providing additional information.

Declaration: I, hereby declare that the information provided in the application is true. I further declare that I will not use the information collected from DHARMA software for any unlawful activities and/or to the detriment of the Central or StateGovernments.

Signature and Seal / stamp of the Applicant:	Signature:	
	Name:	
	Designation:	
	Seal / Stamp:	

Please send the completed Application Form to the concerned Licensee.

DHARMA Application User Registration Form

Dam Health Engineer

1.	Date of Application:	< dd/mm/yyyy>		
2.	Type of User:	DamHealthEngineer		
3.	Name of the Applicant:	<Title>. <Name>		
4.	Designation:			
5.	Name of the Organization:			
6.	Complete Postal Address:			
7.	Email ID:			
8.	Mobile Number:		Office Tel. Number:	
9.	Current Responsibilities:	☐ Coordinating DamSafety ☐ Water ResourceManagement ☐ DamDesign ☐ Dam Construction /Rehabilitation ☐ DamOperations ☐ Academic /Research ☐ Other: <pleasespecify>		
10.	Viewing Permission Required for:	☐ Project Features ☐ Project Portfolio ☐ Engineering Features		
11.	Editing Permission Required for:	☐ Project Features ☐ Project Portfolio ☐ Engineering Features		
12.	Provide List of Dams			

Please select out of the choice provided; add separate sheets for providing additional information .

Declaration: I, hereby declare that the information provided in the application is true. I further declare that I will not use the information collected from DHARMA software for any unlawful activities and/or to the detriment of the Central or StateGovernments.

Signature and Seal / stamp of the Applicant:	Signature:	
	Name:	
	Designation:	
	Seal / Stamp:	

Please send the completed Application Form to the concerned Licensee.

TABLE – 7.1

Data filling status on Dam Health and Rehabilitation Monitoring Application (DHARMA) portal of Pune Region.

Sr. No	Name of Dam	NRLD registration number	Dharma data filling status (%)	Remarks
[A]Chief Engineer(W.R.)Water Resources Department Pune				
(1)Superintending Engineer, Pune Irrigation Circle, Pune				
(a)Executive Engineer , Pune Irrigation Division, Pune				
1.	Jadhavwadi	MH09HH1587	10	
2.	Nira devghar	MH09HH1554	10	
3.	Bhatghar	MH09HH0048	41	
4.	Vadivale	MH09MH1517	11	
5.	Andravalley	MH09HH1622	11	
6.	Kasarsai	MH09MH1373	11	
(b)Executive Engineer ,Chaskaman Irrigation division, Pune				
7.	Aralakalmodi	MH09HH1672	9	
8.	BhamaAskhed	MH09HH1559	10	
9.	Chaskaman	MH09HH1522	10	
(c)Executive Engineer , Lift Irrigation Management Division, Pune				
10.	Nazare	MH09MH0453	10	
d) Executive Engineer ,Khadakwasala Irrigation Division, Pune 11				
11.	Panshet	MH09HH0310	10	
12.	Khadakvasal	MH09HH 0013	11	
13.	Warasgaon	MH09HH0592	10	
14.	Pawana	MH09HH0311	10	
(e)Executive Engineer, Nira Right Bank Canal Division, Phaltan ,Dist. Satara				
15.	Veer	MH09HH0116	10	
(2)Superintending Engineer, Pune Irrigation Project Circle, Pune				
(a) Executive Engineer, BhamaAskhed dam division, pune				
16.	Temghar	MH09HH1544	10	
(c)Executive Engineer, Niradevghar Project Division, Sangavi(Bhatghar),Tal.Bhor,Dist.Pune				
17.	Gunjavani	MH09HH1552	11	
(3)Superintending Engineer Sangli Irrigation circle, Sangli				
(a)Executive Engineer ,Sangli Irrigation Division, Sangli				
18.	Morna (Shirala)	MH09HH1101	11	
(b)Executive Engineer ,Tembhu Lift Irrigation Project Management Division, Ogalewadi				
19.	Yevati masoli	MH09HH1218	10	
(c)Executive Engineer ,Takari Pump House Division No.1, Devrashtre				
20.	Satpewadi barrage	MH09MH2406	07	
(4)Superintending Engineer Kolhapur Irrigation Circle,Kolhapur				
(a)Executive Engineer , Medium Project Division No2, Kolhapur				
21.	Ghatprabha(Phatakwadi	MH09HH 1900	11	
22.	Chikotra	MH09HH1582	10	
23.	Jangamhatti	MH09MH1366	10	
24.	Keloshi Bk.	MH09HH1935	09	

Sr. No	Name of Dam	NRLD registration number	Dharma data filling status (%)	Remarks
25.	Jambre	MH09HH1921	11	
(b)Executive Engineer, Kolhapur Irrigation Dn.(North) Kolhapur				
26.	Kadavi	MH09HH1541	10	
27.	Kasari	MH09HH1245	11	
28.	Kumbhi	MH09HH1671	10	
29.	Paleshwar	MH09HH1546	11	
30.	Tulashi	MH09HH0726	03	
31.	Upwade	MH09HH1385	03	
32.	Radhanagari	MH09HH0067	10	
33.	Warana	MH09HH1542	14	
34.	Dudhaganga	MH09HH1226	10	
(c)Executive Engineer, Kolhapur Irrigation Dn.(South) Kolhapur				
35.	Patgaon	MH09HH1242	10	
36.	Ambewadi	MH09HH1899	11	
37.	Chitri	MH09HH1586	11	
38.	Kitwad-2	MH09HH1902	11	
39.	Kondoshi	MH09HH1533	10	
40.	Lakikatti	MH09HH1538	11	
41.	Megholi	MH09HH1536	10	
42.	Phaye	MH09HH1629	11	
(5)Superintending Engineer Satara Irrigation Circle, Satara				
a)Executive Engineer, Koyna Irrigation Division Koynanagar				
43.	Koyna	MH09VH0100	50	
44.	Kolkewadi	MH09HH0527	27	
(b)Executive Engineer, Satara Irrigation Division Satara				
45.	Dhom	MH09HH0655	56	
46.	Dhombalkawadi	MH09HH1665	10	
(c) Executive Engineer, Krishna Irrigation Division, Satara				
47.	Urmodi	MH09HH1594	08	
48.	Kanher	MH09HH1141	50	
[B]Chief Engineer(S.P.) Water Resources Department Pune				
(1)Superintending Engineer Kukadi Irrigation Circle Pune				
(a) Executive Engineer, Kukadi Irrigation Div. 1 Narayangaon				
49.	Wadaj	MH09HH1006	11	
50.	Yedgaon	MH09MH0658	11	
51.	Manikdoh	MH09HH1060	51	
52.	Pimpalgaonjoge	MH09MH1520	11	
53.	Dimbhe	MH09HH1558	52	
(b) Executive Engineer, Kukadi Irrigation Div.2 Shrigonda				
54.	Ghod	MH09MH0117	11	
c) Executive Engineer ,Kukadi Irrigation Division No. 2, Shrigonda				
55.	Sina	MH09MH1142	11	
(d) Executive Engineer, Dimbhe Dam Div. Manchar				
56.	Chilewadi	MH09HH1553	11	

Sr. No	Name of Dam	NRLD registration number	Dharma data filling status (%)	Remarks
(2)Superintending Engineer Satara Irrigation Project Circle, Satara				
(a)Executive Engineer , Minor Irrigation Division, Satara				
57.	Uttarmand	MH09HH1591	10	
58.	Morna(Gureghar)	MH09HH1664	11	
59.	Nagewadi	MH09HH1518	11	
60.	Kalgaon	MH09HH2411	07	
61.	Kusawade	MH09HH2416	09	
(b)Executive Engineer ,Kanher Canal Division No.2, Karwadi,Karad.				
62.	Tarali	MH09HH1666	09	
(c)Executive Engineer, Dhom Canal Division No.2,Satara				
63.	Mahu	MH09HH1588	10	
64.	Hatgeghar	MH09HH1568	11	
65.	Pangare	--	--	NRLD Updation is Pending
(3)Superintending Engineer & Administrator, C.A.D.A. Solapur				
(a) Executive Engineer, Solapur Irrigation Division Solapur				
66.	Bori	MH09MH1650	11	
67.	Ekrukh	MH09MH0007	11	
(b)Executive Engineer, Ujjani Dam Management Division Bhimanagar Dist. Solapur				
68.	Ujjani	MH09HH0843	66	
(4)Superintending Engineer Osmanabad Irrigation Circle Osmanabad				
(a)Executive Engineer, Sinakolegaon Project DivisionParandaDist.Osmanabad				
69.	Sinakolegaon	MH09HH1673	55	

Part-8

Health Status of Gated Dam (As per Mechanical Organization)

Part- 8 Health Status of Gated Dam (As per Mechanical Organisation)

8.1 General

As per GR.NO.ID/1078/23/8/IMP/2 Dtd.10/09/1980, Dam Safety Organization has been established by Government of Maharashtra for effective monitoring the safety aspects of dam.

As per Maharashtra Government Guidelines and regulation, Chief Engineer (Mechanical), Water Resources Dept. Nashik assigned Dams gate Inspection work to Superintending Engineer, Mechanical Circle, Nashik to assure proper operation and maintenance of Dam gates

Under Superintending Engineer, Mechanical Circle, Nashik Executive Engineer, Inspection unit, Aurangabad and Executive Engineer, Sluice Gate Mfg. Division, Dapodi , Pune are looking after all the inspection works.

Division offices Conduct all pre monsoon & Post Monsoon Gate Inspection work of Government, Semi Government, & Private Dams and send Reports to related authorities for same.

After Inspection work the observed points or deficiencies are classified into various categories as given below.

Def. Category-1	Dams with Major Deficiencies which may lead to dam failure	Very Serious Defects
Def. Category-2 (2 A)& (2B)	Dams with rectifiable Deficiencies needs immediate attention	Serious Defects (2A)
		Require immediate attention (2B)
Def. Category-3	General Defects	General Defects

In the year of 2021 Pre and Post Monsoon inspection of total 161 Gated dams have been carried out by Mechanical Organization. It is to be noted that Chief engineer (Mechanical) W.R.D Nashik, prepares independently the detail Health status Report of all the gated dams inspected by mechanical Organization. This report is published and submitted to WRD and circulated to all Concern Chief Engineers.

In this Health Status Report, only the dam wise numbers of deficiencies noted by mechanical Organization are given in this part of ADHSR. For details regarding the actual deficiencies Health Status Report circulated by Mechanical Organization shall be referred.

8.2 Overall Health Statues of Gated Dams

40 Class-I gated dams in the Pune region are inspected by Mechanical Organization.
Category -1 deficiency is not observed on any dam. Category -2 & 3 deficiencies are observed on all the 40 dams. Total 863 Category -2 deficiencies and total 2149 Category -3 deficiencies are observed on the dams in the region.

Table 8.1

Status of Deficiencies

Sr. No.	Region & Name of Dam	Number of Gated Dams as per dam Category			Report Taken Into Account	Dam category - I Difficiencies			Dam category - II Difficiencies		
		Cat-I	Cat-II	Total		Cat-I	Cat-II	Cat-III	Cat-I	Cat-II	Cat-III
1	2	3	4	5	6	7	8	9	10	11	12
	Pune Region										
1	Kasarsai	1	0	1	Yes	0	32	105	0	0	0
2	Wadivale	1	0	1	Yes	0	49	83	0	0	0
3	Bhataghar	1	0	1	Yes	0	9	29	0	0	0
4	Niradevghar	1	0	1	Yes	0	19	56	0	0	0
5	Khadakwasla	1	0	1	Yes	0	44	105	0	0	0
6	Pawana	1	0	1	Yes	0	22	33	0	0	0
7	Varasgaon	1	0	1	Yes	0	37	94	0	0	0
8	Panshet	1	0	1	Yes	0	27	59	0	0	0
9	Bhama Askhed	1	0	1	Yes	0	41	56	0	0	0
10	Chasakaman	1	0	1	Yes	0	42	66	0	0	0
11	Gunjawani	1	0	1	Yes	0	10	31	0	0	0

Sr. No.	Region & Name of Dam	Number of Gated Dams as per dam Category			Report Taken Into Account	Dam category - I Difficiencies			Dam category - II Difficiencies		
		Cat-I	Cat-II	Total		Cat-I	Cat-II	Cat-III	Cat-I	Cat-II	Cat-III
1	2	3	4	5	6	7	8	9	10	11	12
12	Veer	1	0	1	Yes	0	26	27	0	0	0
13	Ghod	1	0	1	Yes	0	16	46	0	0	0
14	Mula	1	0	1	Yes	0	27	56	0	0	0
15	Kumbhi	1	0	1	Yes	0	20	37	0	0	0
16	Warna	1	0	1	Yes	0	39	78	0	0	0
17	Tulshi	1	0	1	Yes	0	14	41	0	0	0
18	Radhanagari	1	0	1	Yes	0	20	38	0	0	0
19	Kasari	1	0	1	Yes	0	22	67	0	0	0
20	Dudhganga	1	0	1	Yes	0	38	125	0	0	0
21	Chikotra	1	0	1	Yes	0	11	49	0	0	0
22	Koyana Dam	1	0	1	Yes	0	30	13	0	0	0
23	Kolakewadi	1	0	1	Yes	0	23	62	0	0	0
24	Dimbhe	1	0	1	Yes	0	31	61	0	0	0

Sr. No.	Region & Name of Dam	Number of Gated Dams as per dam Category			Report Taken Into Account	Dam category - I Difficiencies			Dam category - II Difficiencies		
		Cat-I	Cat-II	Total		Cat-I	Cat-II	Cat-III	Cat-I	Cat-II	Cat-III
1	2	3	4	5	6	7	8	9	10	11	12
25	Manikdoh	1	0	1	Yes	0	23	60	0	0	0
26	Wadaj	1	0	1	Yes	0	12	28	0	0	0
27	Pimpalgaon Joge	1	0	1	Yes	0	3	50	0	0	0
28	Yedgaon	1	0	1	Yes	0	10	29	0	0	0
29	Chilhewadi	1	0	1	Yes	0	14	37	0	0	0
30	Dhom	1	0	1	Yes	0	15	46	0	0	0
31	Dhom balakawadi	1	0	1	Yes	0	8	29	0	0	0
32	Kanher	1	0	1	Yes	0	13	45	0	0	0
33	Urmodi	1	0	1	Yes	0	9	44	0	0	0
34	Mahu	1	0	1	Yes	0	10	57	0	0	0
35	Tarali	1	0	1	Yes	0	13	56	0	0	0
36	Uttarmand	1	0	1	Yes	0	5	35	0	0	0
37	Morna gureghar	1	0	1	Yes	0	8	45	0	0	0

Sr. No.	Region & Name of Dam	Number of Gated Dams as per dam Category			Report Taken Into Account	Dam category - I Difficiencies			Dam category - II Difficiencies		
		Cat-I	Cat-II	Total		Cat-I	Cat-II	Cat-III	Cat-I	Cat-II	Cat-III
1	2	3	4	5	6	7	8	9	10	11	12
38	Ujani	1	0	1	Yes	0	52	71	0	0	0
39	Bori	1	0	1	Yes	0	14	65	0	0	0
	Private Dam										
40	Mulashi	1	0	1	Yes	0	5	35	0	0	0
	Total	**40**	**0**	**40**		**0**	**863**	**2149**	**0**	**0**	**0**

Kanher Dam