

# Government of India Ministry of Environment, Forest and Climate Change IA Division







Minutes of 25TH MEETING OF THE EXPERT APPRAISAL COMMITTEE meet ing River Valley and Hydroelectric Projects held from 27/02/2025 to 27/02/2025 Date: 11/03/2025

**MoM ID:** EC/MOM/EAC/216917/2/2025

Agenda ID: EC/AGENDA/EAC/216917/2/2025

Meeting Venue: N/A

Meeting Mode: Virtual

Date & Time:

27/02/2025 10:30 AM 05:30 PM
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## 1. Opening remarks

The 25<sup>th</sup> meeting of the EAC for River Valley & Hydro-electric Projects organized by the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi, was held on 27<sup>th</sup> February, 2025 (Virtual Mode), under the Chairmanship of Prof. G. J. Chakrapani.

# 2. Confirmation of the minutes of previous meeting

The Minutes of the Meeting held on 24<sup>th</sup> EAC meeting on 14<sup>th</sup> February, 2025 were confirmed.

#### 3. Details of proposals considered by the committee

Day 1 -27/02/2025

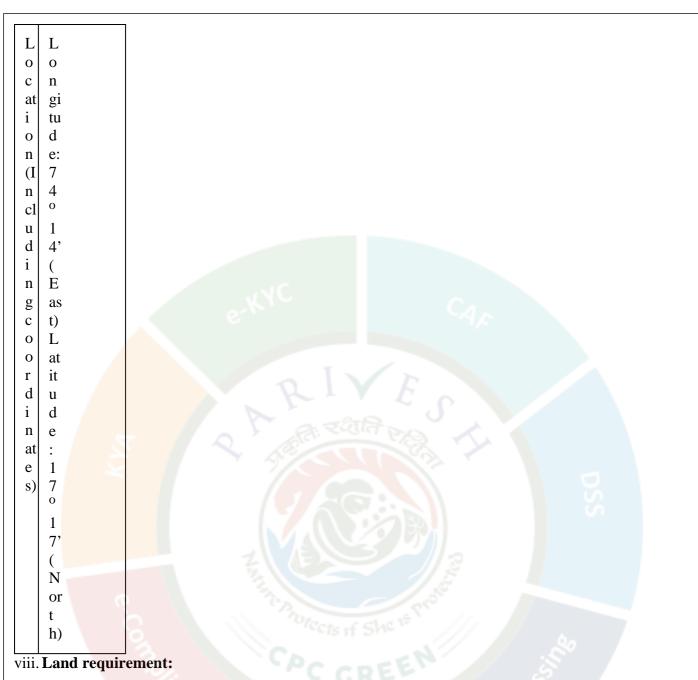
# 3.1. Agenda Item No 1:

#### 3.1.1. Details of the proposal

1	mbhu Lift Irrigation Project SATARA,MAHARASHTRA	,	Satara, Maharashtra by Departm
Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/MH/RIV/482689/2024	J-12011/48/2023-IA.I (R)	06/01/2025	River Valley/Irrigation projects ( 1(c))

#### 3.1.2. Project Salient Features

- **25.1.1:** The proposal is for grant of Environmental Clearance (EC) to the project for Expansion of Tembhu Lift Irrigation Project in an area of 2284.601 ha at Village Tembhu, Ranad, Govare and etc, Sub District Khatav, Atpadi, Karad and etc, District Satara, Sangli and Solapur, Maharashtra by M/s Minor Irrigation Division, Sangli Water Resources Department, Maharashtra Krishna Valley Development Corporation.
- **25.1.2**: The Project Proponent and the accredited Consultant M/s MITCON Consultancy & Engineering Services Ltd., Pune, Maharashtra, made a detailed presentation on the salient features of the project and informed that:
- i. Krishna Koyana Lift Irrigation Scheme (KKLI), which is under construction, provides irrigation benefits to drought prone Kadegaon, Khanapur, Tasgaon, Miraj &Kavathe Mahankal and Jat Taluka of Sangli districtand Songola and Mangalvedha taluka of Solapur of district. Takari Lift Irrigation Scheme provides irrigation in Khanapur, Kadegaon and Tasgaon talukas up to RL 2100 ft. while Mhaisal Lift Irrigation Scheme provides Irrigation in Miraj, and Kavathemahankal, Jath, Songala and Mangalvedha taluka up to RL. 2200 ft. There was persistent demand for irrigation benefits to areas above RL 2100 ft from Kadegaon, Khanapur, Tasgaon, Atpadi, Sangola, Kavathe Mahankal talukas by way of Lift Irrigation Scheme. As it was not possible to make changes in scope of KKLIS, which was in advanced stage of construction, a separate lift irrigation scheme named Tembhu Lift Irrigation Scheme was proposed for drought prone area of Kadegaon, Khanapur, Tasgaon, Atpadi, Sangola, Kavathemahankal taluka above RL 2100 Ft i.e. which could not be covered under KKLI scheme. Accordingly, a preliminary report based on topo sheet study was submitted to Govt. by C.E. (I.D.) Pune vide Letter No. PB/ Desk (2)/ DE (10) Tembhu/ 971 Dt. 22/02/1994 Govt. approved this proposal, vide letter No. 5-95/ 1093/ 668/ (140/93) WRI, DT. 15/04/1994 and directed to prepare D.P.R. of this scheme.
- ii. The barrage across Krishna River @ Tembhu is constructed. The F.S.L. of barrage is within the river bank. The 11 gates of size 15 x 9 m. are provided to let out the water from Krishna River to irrigate 80472 ha (ICA) of land from drought prone regions of Satara, Sangli and Solapur districts of Maharashtra state. (Total 5 stages).
  - iii. The Proposed Expansion of Tembhu Lift Irrigation Project Taluka Karad, Dist. Satara, Sangli and Solapur, Maharashtra by M/s. Executive Engineer, Minor Irrigation Division, Sangli project envisage construction to irrigate ICA 41003 ha
    - v Existing Khanapur Tasgaon Canal (Stage 6 A-6B LIS)
    - v Kavathe Mahankal Canal (Bevnur Scheme)
    - v Palashi LIS (Palshi LIS)
    - v 3 A to Ghanand Canal (Man Khatav LIS)
    - v Kamath Lake (Kamath Scheme)
    - v Length of new pipeline proposed (PDN): 200 km
    - v Length of proposed Distributaries: 1000 km
    - v Total electricity requirement: 22 MW (Source: MSEDCL)
    - v Water Utilization: Existing: 22.0 TMC + Proposed 8.00 TMC = Total 30.00 TMC
- iv. Accordingly, detailed project Report of Tembhu Lift Irrigation Scheme was prepared which envisaged construction of barrage across river Krishna near village Tembhu and Lifting the stored water in 5 stages to irrigate 79600Ha. Of area from 7, taluka's of Satara, Sangli and Solapur district. This DPR was administratively approved by Govt. letter no. (Marathi) Tembhu 1095/1427/ (361/95) WRI dt. 19.02.1996. (for Rs. 1456.19 crores)
- v. The project proposal was considered by the Expert Appraisal Committee (Hydro River Valley Sector) in its 51 st meeting held during 12 Sept 2023 and recommended for grant of Terms of References (ToRs) for the Project. The ToR has been issued by Ministry vide letter File No: J-12011/48/2023-IA. I (R) Dated 02/11/2023.
- vi. Earlier, Ministry had issued EC vide letter no. 12011/43/2003-A. I Dated August 17, 2007 to the existing project in favour of M/s. Minor Irrigation Circle, Maharashtra Krishna Valley Development Corporation, Warnali, Sangli.
- vii. The geographical co-ordinate of the project are



Nature of Land invol ved in (Ha)	Area Existing in Ha	Additional Area Proposed in Ha	Total Area required afte r expansion in Ha
Non-Forest Land	2265.13	aymer <sup>2.78</sup>	2267.92
Forest Land	7.05	7.93	14.98
Total	2272.18	10.71	2282.90

# $ix. \mbox{ Demographic details in 10 km radius of project area: } \\$

# x. Water requirement:

District	Taluka	No. of village	ICA (Ha)	Water Requiremen t TMC
Sangli	1) Khanapur	11	6471	1.5

	2) Tasgaon	17	6026	1.00
	3) Kawathemahankal	9	2450	0.50
	4) Atpadi	12	5294	1.00
	5) Jat	4	2636	0.50
	Total of Sangli District	53	22877	4.50
Satara	6) Khatav	21	7440	1.50
	7) Maan	27	5686	1.00
	Total of Satara District	48	13126	2.50
Solapur	8) Sangola	8	5000	1.00
	Total Of Solapur District	8	5000	1.00
	Gross Total	109	41003	8.00

- xi. **Project Cost:** The estimated project cost is Rs 7370.03 Cr. including existing investment of Rs 4088.14 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 193.00 L and the Recurring cost (operation and maintenance) will be about Rs 160.00 L per annum.
- xii. **Project Benefit**: Total Employment will be 15 persons as direct & 360 persons indirect after expansion. Industry proposes to allocate Rs 820 Lakh @ of 0.25 % towards CER (as per Ministry's OM dated 1st May 2018).
- xiii. **Environmental Sensitive area:** There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. However, Mayani Bird Conservation Reserve & Other sacred groves are present within 10 km radius.

Sr. No.	Name of the Gr ove	Deity	Tahsil	Distance	Direction
1	Arewadi	Biroba	Kavathe Mahankal	3 km	SE
2	Raywadi	Lord Shiva	Kavathe Mahankal	3 km	W
3	Shukachary a	Sukhdev	Khanpur-Atpadi	2 km	NE
4	Mayani	Bird Conservation Reserve*	Khatav	1.28 km	NE

<sup>\*5.2</sup> km from Khatav Main Distributary

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### xv. Resettlement and rehabilitation:

For the Expansion of Tembhu Lift Irrigation Project, private land of around 2.7825 Ha is proposed for acquisition. The land acquisition will be done and compensation shall be paid to land owners as per The Right to Fair Compensation & Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013. As there are no households in the land to be acquired, there is no issue of rehabilitation & resettlement of the land owners.

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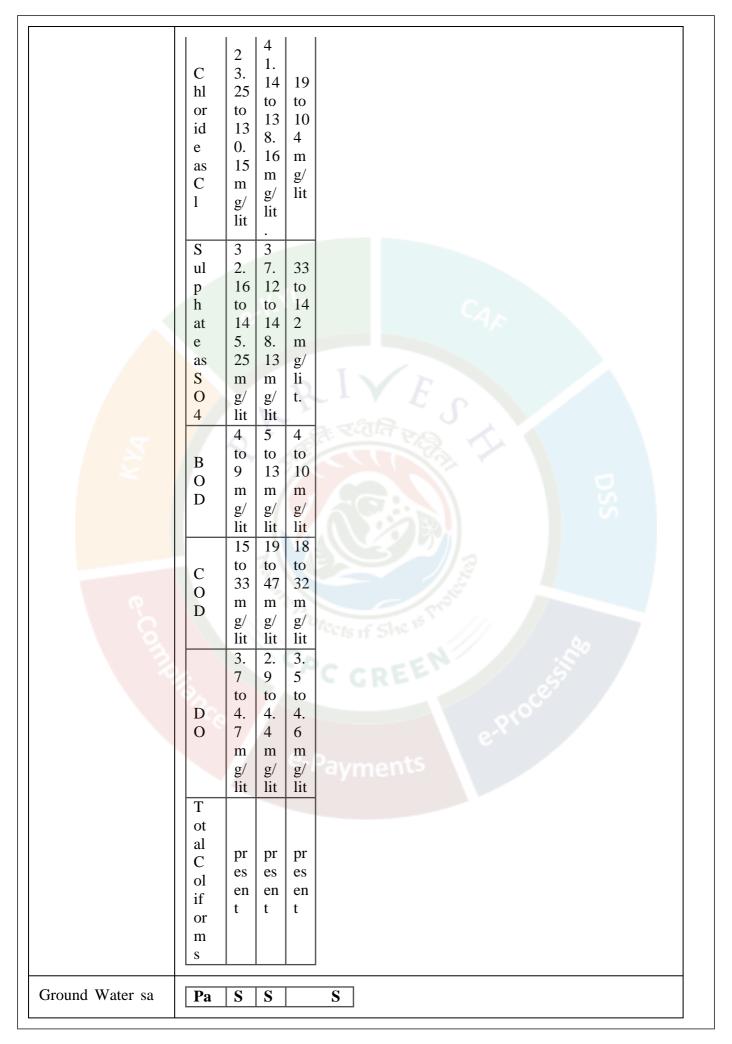
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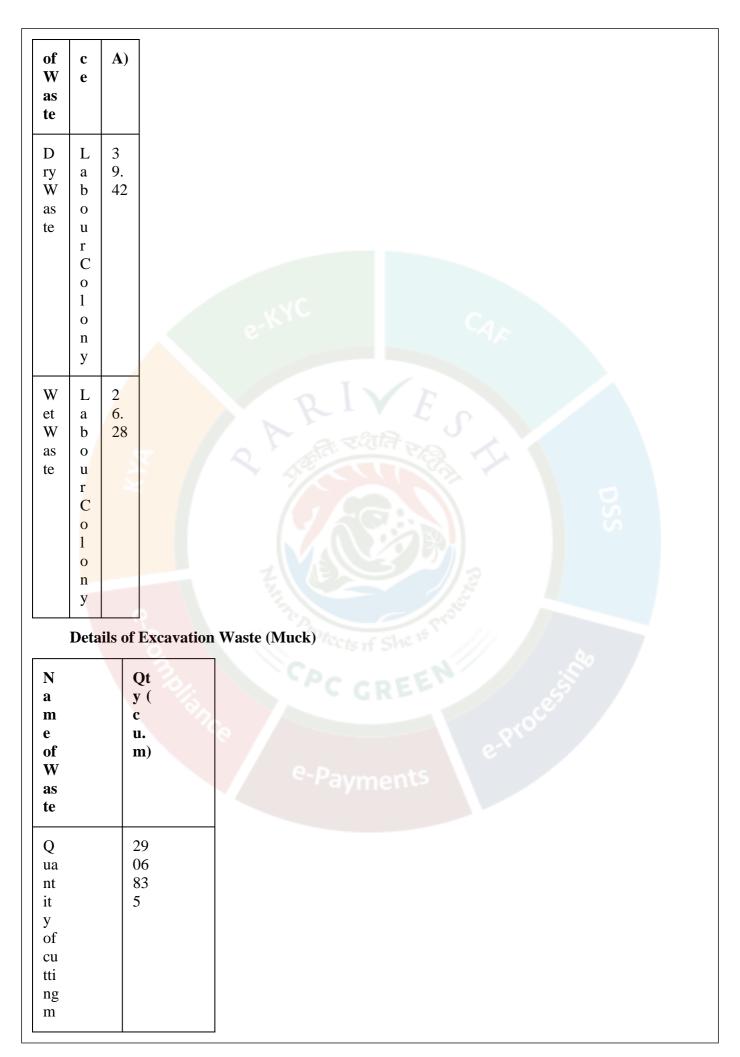
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	u	to	to		
	m	12	13		
	as C	4.	0.		
	a	m m	18   m		
	a	g/	g/		
		lit	g/   lit		
		&	#t		
	M	1	1	11.13 to	
	a	3.	4.	95.27 m	
		1			I

KYA	g n es iu m as M g C hl or id e as C l & S ul p h at e as S O 4	26 to 9 2. 14 m g/ lit 2 4. 25 to 11 0. 92 m g/ lit & 12 0. 12 0. 15 m 15 m 16 m 17 m 18 m 18 m 18 m 18 m 18 m 18 m 18	25 to 9 5. 24 m g/ lit 2 1. 16 to 11 5. 24 m g/ lit 1 6. 02 to 12 0. 14 m g/ li t.	25.42 128.12 mg/lit	to	DSS
Noise levels Leq	The L	eq va	alues	for day	time was observed to be	
\ 0		e /Ar		-	Day Time	Night Time
3		denti		one	47.3-to 54.8dB (A)	39.1to 43.8 dB (A).
19		nt Zo			41.6-to 48.9dB (A)	33.2 to 39.8 dB (A).
		merc		Zone Zone	66.5 to 69.4dB (A	60.5 to 64. 2 dB (A).
	2011				(11	(11)
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	ra	e	e	e-pe		
	me	a	a	a		
	ter	s	S	S		
	s	0	0	O		
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		1	2	3		
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	P	9.	1	13.45 to 24.1 kg/ ha
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		ha	ha	
				e-Payments
	Ta4a1	172	flore	al anasiga ware recorded in and around the arriest area ()
				al species were recorded in and around the project area (i.e.
				study). Among them 41 Herbs, 97 Trees, 27 shrubs & climb
	ers w			
		a Div	ersity	ty: Mammals - 15, Bird – 135, Fishes-109, Frog -3, Reptile
	-4,			

# **Domestic Waste:**

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m	u	(T
e	r	P



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S ou rc e of fil li ng M	Tr en ch cu tti ng	

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ial	

The detail of the muck likely to be disposal at low lying area adjacent to project site

Sr. No	Stage of LIS	Total Muck quantity in cum
1	Man Khatav	104646
2	Kamat	69764
3	Bevnoor	69764
4	6 A and 6 B	34882
5	Palshi	34882
6	Budhyal	34882

xix. **Public Hearing Details**: Public Hearing for the proposed project has been conducted by the State Pollution Control Board at three districts separately.

Advertisement for PH with date	Marathi Newspaper: Sangli: Sakal Dated 19.01.2024 Solapur: Sanchar 31.01.2024, Satara: Pudhari Dated 01.02.2024, English Newspaper: Sangli: The Times of India Dated 19.01.2024, Solapur: Divya Marathi Dated 31.01.2024, Satara: The Indian Express Dated 01.02.2024
Date of Public Hearing	1. Sangli: 21/02/2024 2. Solapur: 01/03/2024 3. Satara: 05/03/2024
Venue	<ol> <li>Vita Panchayat Samiti, Vita, Khanapur, Sangli</li> <li>Bachat Bhavan Auditorium, Panchayat samite, Sangola, Solapur</li> <li>Tai Convention Hall, Shri Shivaji Maharaj Chowk, Satara</li> </ol>
Chaired by	<ol> <li>Dr. Raja Dayanidhi, Chairman &amp; District Magistrate, Sangli</li> <li>Mrs. Manisha Kumbhar, Chairman &amp; Additional District Magistrate, Solapur</li> <li>Shri. Nagesh Patil, Chairman &amp; Upper District Magistrate (Residential Deputy Collector), Satara</li> </ol>
Main issues raised during P H	All the participants raised the water scarcity issue by heart. Many years the local people are suffering due to drought
No. of people attended	Sangli: 157

	Solapur: 102 Solapur: 140
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# xx. Details of Certified compliance report submitted by RO, MoEF&CC.

Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguards status on 29.07.2024.

Status of compliance of conditions stipulated in the environmental clearance granted by MOEF & CC New Delhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vide F. No. EC-2556/RON/2024-NGP/3436 dated 12<sup>th</sup> August, 2024.

# xxi. Status of Litigation Pending against the proposal, if any: NIL

xxii. The salient features of the project are as under:

EAC meeting/s	Agenda ID: EC/AGENDA/EAC/216917/2/2025 Agenda Of 25th Meeting Of The Expert Appraisal Committee
Date of Meeting/s	27/02/2025
Date of earlier EAC meetings	51st Meeting of EAC, MoEFCC, New Delhi held on 12/0 9/2023 (Agenda Item No. 51.4) for Terms of Reference (ToR)  22nd Meeting of The Expert Appraisal Committee held on 10.01.2025 for EC (PP Absent)
Name of the Proposal	Proposed Expansion of Tembhu Lift Irrigation Project Di st. Satara, Sangli and Solapur, Maharashtra
Proposal No.	IA/MH/RIV/482689/2024
Location (Including Coordinates)	Longitude: 74° 14' (East)  Latitude: 17°17' (North)
Company's Name	Executive Engineer Minor Irrigation Division, Sangli Water Resource Department Maharashtra Krishna Valley Development Corporation (MKVDC), District Sangli 416 415
CIN no. of Company/user agency	-
Accredited Consultant and certificat e no.	MITCON Consultancy & Engineering Services Ltd., Pun e, Maharashtra Certificate No. NABET/EIA/24-27/RA 0343
Project location (Coordinates /Rive r/ Reservoir)	Longitude: 74o 14' (East) Latitude: 17o17' (North)
Inter- state issue involved	No

JP	e of Hydro	electric project	Not a	Applicable					
Seisı	mic zone		Zone	Zone III (i. e. Moderate Risk Zone)					
c it eg or of	1 (c) Cat	. 'A'							
h ec C		e-K	YC P		CA		and Area CA		
ic t	Sr No	Taluka	District	Existing	Extended	Existing	Extended	Existing	
, /	A	Karad	Satara	1150	Area 0	860	Area 0	600	
$\mathbb{C}$	B	Karau	Sangli	41135	19691	32921	11902	18975	
ıl	C	Kadegaon	Sangli	20215	0	16179	0	9325	
u o1	D	Tasgaon	Sangli	20570	15280	15450	11083	7700	
al co	E	Atpadi	Sangli	61569	9015	43100	9737	16000	
$\binom{n}{n}$	F	Sangola	Solapur	36500	20745	29200	5876	20000	
n	G	Jat	Sangli		6506	A	4848	-	
ın	Н	Kavathe Mahankal	Sangli	17475	12455	10300	7826	7872	
i	I	Khatav	Satara	-	18362		13685	-	
ır	J	Man	Satara	CDE	14033	- 6	10458	-	
		Total		198614	116087	148010	75415	80472	
		Ace /			e	RKOL			
$\begin{bmatrix} \mathbf{C} \\ \mathbf{C} \end{bmatrix}$	v D'	d Conservation Reser	ve located	@ 1.2 km f	From propose	ed alignmen	t		
C A) At ra et	Yes, Bir								
At ra et t er er al	Yes, Bir								

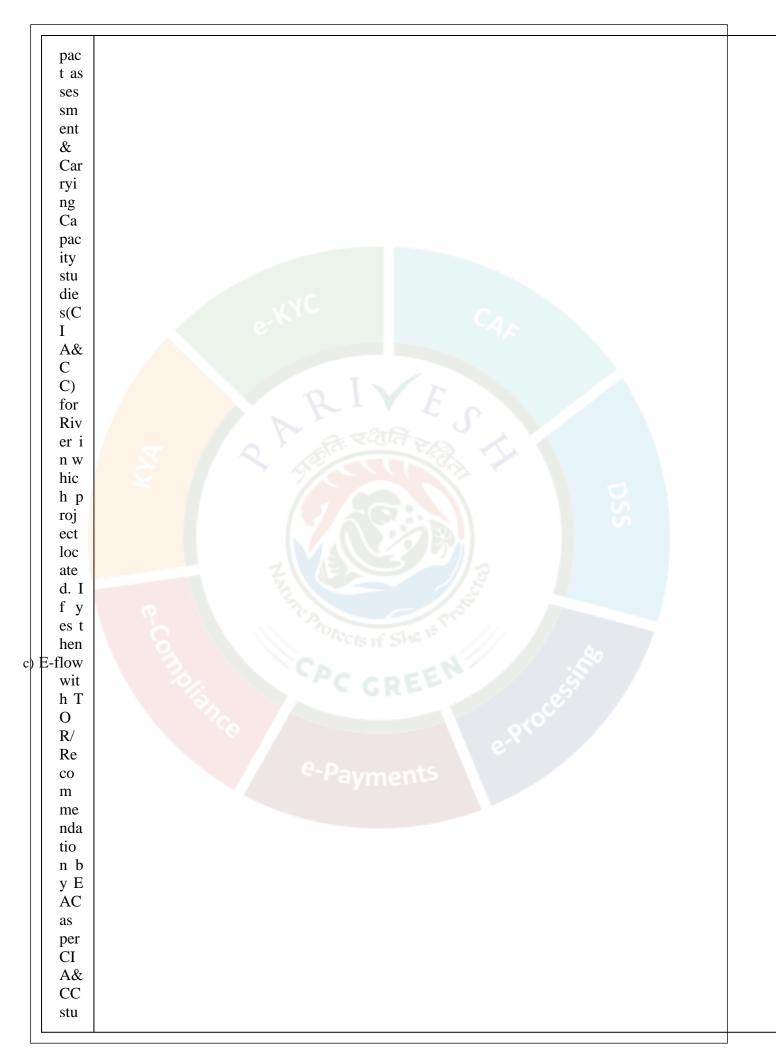
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on s ( Y e s/ N o)		
A dd iti on al in fo r m ati on (if an y)	e-KYC  R I Y F S	
To RP rop osa 1 N o.	IA/MH/RIV/439901/2023, F. No. J-12011/48/2023-IA. I (R)	
EA C me etin g d ate	12/09/2023	
To R Let ter No.	F.No. J-12011/48/2023-IA. I (R)	
To R g ran t D ate	02/11/2023	
Co st o f pr	Existing Project: Rs 4088.14 Proposed Expansion: Rs. 3281.89 Total Cost: Rs. 7370.0	
		1

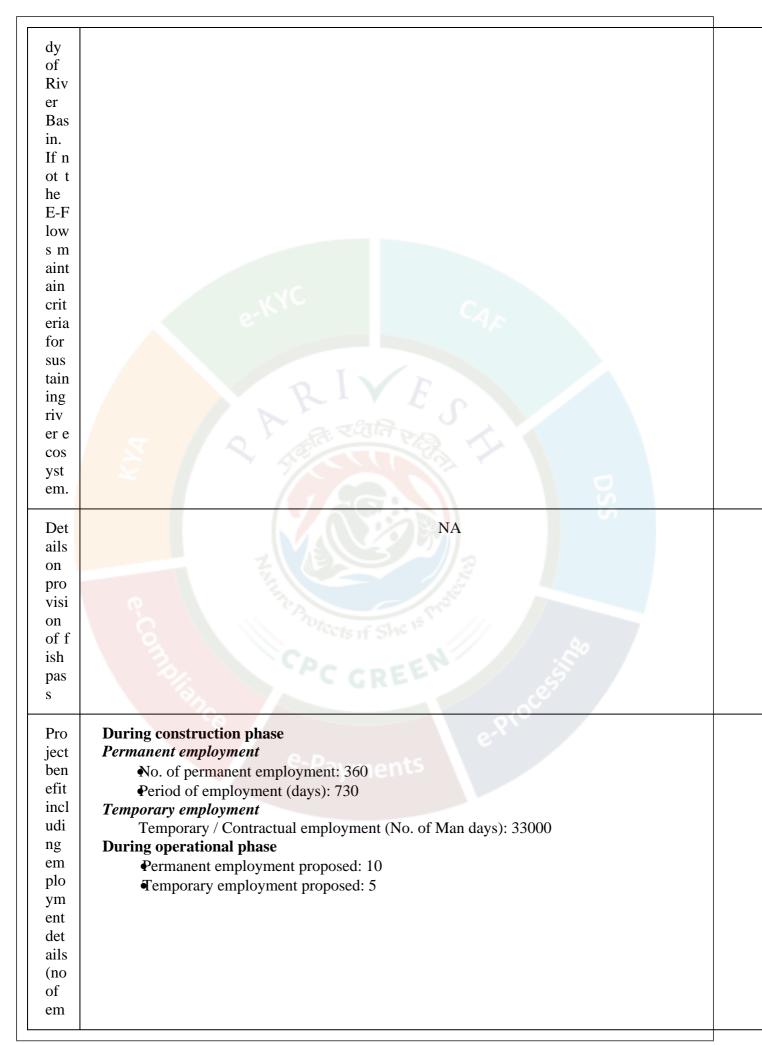
Tot al a	Nature of Land involve d in (Ha)	Area Existing in Ha	Additional Area Propo sed in Ha	Total Area requir ansion in	
rea	Non-Forest Land	2265.138	2.7825	2267.92	1114
of					
Pro	Forest Land	7.051	7.93	14.981	
ject	Total	2272.189	10.7125	2282.902	
ght of Da m f ro m Riv er Be d ( E L)	Not applicable as there is no	suhmergence	E S T		
Det ails of s ub me rge nce are	Not applicable as there is no				
a		"brects if Sh	. Š	•	
Dis tric	v Length of new pipeline provided to the vice of the v	oposed (PDN) : 20 butaries :1000 km	0 km		

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ct d /il ag No. of Aff ct d	1 2	Shri. DattuChandruMore and Shri. Laxm anChandruMore Shri. Rajaram GovindDevkar Shri. Han mant Govind Devkar	Vejegaon Tal:-Khanapur, Dist. Sang li Vejegaon Tal:-Khanapur, Dist. Sang li	145	t No
ect ed Vil lag e. No. of Aff ect ed Fa mil	2 3	Shri. DattuChandruMore and Shri. Laxm anChandruMore  Shri. Rajaram GovindDevkar Shri. Han mant Govind Devkar  Shri. DavalMalik Archak	Vejegaon Tal:-Khanapur, Dist. Sang li Vejegaon Tal:-Khanapur, Dist. Sang li Bhikavadi Tal:-Khanapur, Dist. San gli	145 146 992	t No
ect ed Vil lag	1 2 3 4	Shri. DattuChandruMore and Shri. Laxm anChandruMore Shri. Rajaram GovindDevkar Shri. Han mant Govind Devkar Shri. DavalMalik Archak Shri. Uttam Atmaram Yadav and other	Vejegaon Tal:-Khanapur, Dist. Sang li Vejegaon Tal:-Khanapur, Dist. Sang li Bhikavadi Tal:-Khanapur, Dist. San gli Renavi Tal:-Khanapur, Dist. Sangli	145 146 992 498	t No
ect ed Vil lag e. No. of Aff ect ed Fa mil	2 3	Shri. DattuChandruMore and Shri. Laxm anChandruMore Shri. Rajaram GovindDevkar Shri. Han mant Govind Devkar Shri. DavalMalik Archak Shri. Uttam Atmaram Yadav and other Shri. Anil Pandhrinath Gaikead and othe	Vejegaon Tal:-Khanapur, Dist. Sang li Vejegaon Tal:-Khanapur, Dist. Sang li Bhikavadi Tal:-Khanapur, Dist. San gli Renavi Tal:-Khanapur, Dist. Sangli Kasabe Vita east, Tal:-Khanapur, Di	145 146 992	t No
ect ed Vil lag e. No. of Aff ect ed Fa mil	1 2 3 4	Shri. DattuChandruMore and Shri. Laxm anChandruMore Shri. Rajaram GovindDevkar Shri. Han mant Govind Devkar Shri. DavalMalik Archak Shri. Uttam Atmaram Yadav and other Shri. Anil Pandhrinath Gaikead and othe r 10 Smt. Sharada Ramchandra Nichaland oth	Vejegaon Tal:-Khanapur, Dist. Sang li Vejegaon Tal:-Khanapur, Dist. Sang li Bhikavadi Tal:-Khanapur, Dist. San gli Renavi Tal:-Khanapur, Dist. Sangli Kasabe Vita east, Tal:-Khanapur, Di st. Sangli Posewadi, Tal:-Khanapur, Dist. San	145 146 992 498	t No
ect ed Vil lag e. No. of Aff ect ed Fa mil	1 2 3 4 5	Shri. DattuChandruMore and Shri. Laxm anChandruMore  Shri. Rajaram GovindDevkar Shri. Han mant Govind Devkar  Shri. DavalMalik Archak  Shri. Uttam Atmaram Yadav and other  Shri. Anil Pandhrinath Gaikead and othe r 10	Vejegaon Tal:-Khanapur, Dist. Sang li  Vejegaon Tal:-Khanapur, Dist. Sang li  Bhikavadi Tal:-Khanapur, Dist. San gli  Renavi Tal:-Khanapur, Dist. Sangli  Kasabe Vita east, Tal:-Khanapur, Di st. Sangli  Posewadi, Tal:-Khanapur, Dist. San gli  Dhonewadi, Tal:-Kanapur, Dist. San	145 146 992 498 194	t No
ect ed Vil lag e. No. of Aff ect ed Fa mil	1 2 3 4 5	Shri. DattuChandruMore and Shri. Laxm anChandruMore  Shri. Rajaram GovindDevkar Shri. Han mant Govind Devkar  Shri. DavalMalik Archak  Shri. Uttam Atmaram Yadav and other  Shri. Anil Pandhrinath Gaikead and othe r 10  Smt. Sharada Ramchandra Nichaland oth er	Vejegaon Tal:-Khanapur, Dist. Sang li Vejegaon Tal:-Khanapur, Dist. Sang li Bhikavadi Tal:-Khanapur, Dist. San gli Renavi Tal:-Khanapur, Dist. Sangli Kasabe Vita east, Tal:-Khanapur, Dist. Sangli Posewadi, Tal:-Khanapur, Dist. Sangli	145 146 992 498 194 836	t No

Total  For the tion. Th	Bhimrao Chandanshi Umesh Sukhdeo Jad deo Jadhav and other	lhav, Suloc		Palashi Tal:		Dist. Sangli 25 Ha	232
Total  For the tion. The	deo Jadhav and other		ehna Sukn	Palasni Tai:			232
Total  For the tion. Th	Expansion of Tembh				2.782	25 Ha	
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tion. Th	•	nu Lift Irrig	gation Proje	ct, private la	nd of aroun	d 2.7825 Ha	is propos
r Comp	he land acquisition wi	ill be done	and compe	nsation shall	be paid to l	land owners a	as per Th
	<mark>ensati</mark> on & Transpare	ency in Lar	nd Acquisiti	on, Rehabilit	tation and R	lesettlement	Act 2013
		1/2	7 /		Campu	1 A mag	
	P	- 3.5	and c	ICA .			I
Sr No	Taluka	District					<del> </del>
			Existing	Area	Existing	Area	Existin
A	Karad	Satara	1150	0	860	0	600
В	Khanapur	Sangli	41135	19691	32921	11902	18975
С	Kadegaon	Sangli	20215	0	16179	0	9325
D	Tasgaon	Sangli	20570	15280	15450	11083	7700
E	Atpadi	Sangli	61569	9015	43100	9737	16000
F	Sangola	Solapur	36500	20745	29200	5876	20000
G	Jat	Sangli	s of She v	6506	/-	4848	-
H	Kavathe Mahankal	Sangli	17475	12455	10300	7826	7872
I	Khatav	Satara	CREY	18362	-,6	13685	
J	Man	Satara	-	14033	ر جي	10458	<u> - </u>
]	Total		198614	116087	148010	75415	80472
Name	of Waste	e-Pas	Source				(TPA)
Dry W	aste	- 7	Labour	Colony		39.42	2
Wet W	aste		Labour	Colony		26.28	,
Sr N	Type of r	naterial	To	tal generated	d quantity	in   Total g	enerated
0							cavation
1	Soft Soil						0.2251
2		ft Rock					0.505
1 2							2.1760
	Total			29068	225	1	2.906
	Sr No  A B C D E F G H I J  Name Dry W Wet W	Sr No Taluka  A Karad B Khanapur C Kadegaon D Tasgaon E Atpadi F Sangola G Jat H Kavathe Mahankal I Khatav J Man Total  Name of Waste  Dry Waste Wet Waste  Sr N Type of no 1 Soft Soil 2 Hard murum & so	Sr No Taluka District  A Karad Satara B Khanapur Sangli C Kadegaon Sangli D Tasgaon Sangli E Atpadi Sangli F Sangola Solapur G Jat Sangli H Kavathe Mahankal Sangli I Khatav Satara J Man Satara Total  Name of Waste  Dry Waste Wet Waste  Sr N Type of material o 1 Soft Soil 2 Hard murum & soft Rock 3 Hard Rock	Sr No	Sr No	Sr No	Taluka

ing Co nstr ucti on/ Op erat ion		
Ma teri al u sed for bla stin g a nd its co mp osit ion as per DG MS sta nda rds.	Not Applicable	
E-F low s fo r th e P roj ect	CAC GREEN RICES IN SHEET NA	
Is Pro ject s e arli er s tud ied in Cu mu lati ve Im	NA e-Payments	





plo yee )  Are a o f C ompensatory land 4.50 ha non forest land gut no. 36 at Village Pimpri B, Tal Atpadi, Dist Sangli s Compensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Compensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Aff ore stat ion (C A) wit h te ntat ive
Are a o Compensatory land 4.50 ha non forest land gut no. 36 at Village Pimpri B, Tal Atpadi, Dist Sangli s Compensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Compensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Affore stat ion (C A) wit h te ntat
a o f C ompensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Compensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Affore stat ion (C A) wit h te ntat
a o f C ompensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Compensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Affore stat ion (C A) wit h te ntat
a o f C ompensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.  Compensatory afforestation. 130 number of trees will be affected and same will be transplanted in a.
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Pre Environmental clearance for 80472 ha ICA. Vide letter No.12011/43/2003-A.I Dated August 17,200
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EC Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguare
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EC Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguare on 29.07.2024.  Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC
EC Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguare on 29.07.2024.  mp Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, v
EC Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguare on 29.07.2024.  mp Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024
EC Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguare on 29.07.2024.  mp Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, v
EC Co on 29.07.2024.  mp Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024
EC Co on 29.07.2024.  mp Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, v o. EC-2556/RON/2024-NGP/3436 dated 12th August 2024
Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguare on 29.07.2024.  Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024  Report t b y
EC Co on 29.07.2024.  mp Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024  Re por t b y R.
Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguare on 29.07.2024.  Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024  Report t b  y R. O,
EC Co mp 29.07.2024.  Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024  Re por t b y R. O, M
Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguard on 29.07.2024.  Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024  Report t b  y R. O, M OE
EC Co mp lian ce Re por t b y R. O, M OE F&
EC Co on 29.07.2024.  Status of compliance of conditions stipulated in the environmental clearance granted by MOEF &CC elhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vo. EC-2556/RON/2024-NGP/3436 dated 12th August 2024  Re por t b y R. O, M OE
EC Co on 29.07.2024.  mp lian ce Re por t b y R. O, M OE F& CO.  The proof of the port of

No. of proposed disposal area/ (type of	Sr. No	Stage	of LIS	Total Muck quantity in cum	
Land /Pvt. land)	1	Man	Khatav	104646	
,	2		mat	69764	
	3		noor	69764	
	4		nd 6 B	34882	
	5		lshi	34882	
	6	Budhyal		34882	
			•	adjacent to project Site	
Cross section of propose d muck area, Height of muck with slop e.	oach roa in low l	ads, Conveyance i aying areas and lo	oads, Pump Hou	shall be backfilled in Appr se and 20% shall be filled culture land.	
Distance of muck dispos al area(location), from m uck generation sources ( project area)/River, HFL of proposed muck disposal area.	Average	0 km to 5 km	EST		
Total Muck Disposal Are	Sr. No	Stage o	f LIS	Total Muck quantity in cum	
	1	Man Kl	natav	104646	
	2	Kam	at	69764	
	3	Bevne	oor	69764	
	4	6 A and	l 6 B	34882	
	5	Pals		34882	
6	6 Budh		yal	34882	
Estimate Muck to be gene rated	Sr T	Type of material	Total generat quantity in exc ation in cur	cav   quantity in excav	
700	1 S	oft Soil	225174.6	0.225175	
· ·		ard murum & s ft Rock	505580.2	0.50558	
	3 H	lard Rock	2176080	2.176080	
	T	otal	2906835	2.90684	
Transportation	By Road				
Monitoring mechanism fo r Muck Disposal	Environ muck di	_	ent Cell (EMC) s	shall monitor mechanism o	
Transportation	2265.138 + 2.7825 = 2267.92				
		2265.138 + 2	2.7825 = 2267.92	2	

Land require	ed for proje	ect compoi	nents	Nature of I and involve d in (Ha)	I	Addition al Area P roposed i n Ha	Total Are a required after expa nsion in H a
				Non-Forest Land	2265.138	2.7 82 5	226 7.92
				Forest Land	7.051	7.9 3	14.9 81
			JYC	Total	2272.189	10. 71 25	228 2.90 2
Envir onme ntal S				इं रचाते ह			

S r. N o.	Name of the Grov e	e study Deity	T a h si l	Dista nce	Direct ion	
1	A re w a di	B ir o b a	K a v at h e M	3 k m	S E	$c_{A_{\mathcal{F}}}$
2	R a y w a di	L o r d S h	h a n k al K a v at h e M	2 k m	W	E STATE DSS
3	S h u k ac h	S u k h d e	a h a n k al  K h a n p u	2 k m	N E	E IN Procesing
4	ar y a M a y a ni	V	r-A tp a di K h at a v	1. 2 8 k m	N E	nts

io na l P ar k			
W il dl if e S an ct ua ry	N o	Not Applicable as per Parivesh Web p ortal under applicability of green clear ances	
A rc ha eo lo gi ca l s it es m o n u m en t s/ hi st or ic al te m pl es et c.	N o	No within 10 km Radius	
Additi onal i nform ation (if an	-	-	

y)					
Particu	ılars	Letter no. and date  Stage 1 Clearance received vide online Pr oposal No. FP/MH/Pipeline/466395/2024 dated 06.01.2025  In 109th Technical advisory committee of Central Water Commission meeting on 1 4/03/2011			
Status	of Stage- I FC				
Approv	val of Central Water Commission				
Approv	val of Central Electricity Authority	NA			
Additio	onal detail (If any)	NA			
Is FRA	(2006) done for FC-I				
Sr. No	Pollution Control & Other Environment Infrastructure	Capital Cost Rs. Lakhs	Recurring Cost (per annum) Rs. Lakhs		
	Ambient Air Quality		18.00		
	Noise Level	<u> </u>	12.00		
	Surface and Ground Water Quality	<b>分别</b> 。	25.00		
	Soil Quality	11-3	15.00		
	Solid/ hazardous wastes	03.00	15.00		
	Green Belt Development	400.00	50.00		
	Fisheries Conservation & Management Pla	15.00	(oces		
	Labour Management Plan	25.00			
	Wildlife Conservation Plan	75.00			
	Muck Management Plan	25.00			
	Health & Safety	-	25.00		
	Command Area Development Plan	24887.00			
	Corporate Environmental Responsibility	820.00	-		
	Summary of allocation	of fund for EMP	I		

Sr. No	Pollution Control & Other Environment Infrastructure	Capital Cost Rs. Lakhs	Recurring Cost (per annum) Rs. Lakhs	
1.	EMPs: (eg.: Air Environment, Water Envir onment)	193.00 L		
2.	Capital Cost (in Cr.)		3281.89	
3.	Recurring Cost per annum (In Lakhs)		160.00 L	

#### 3.1.3. Deliberations by the committee in previous meetings

**Date of EAC 1:**10/01/2025 **Deliberations of EAC 1:** 

The accredited consultant 'MITCON Consultancy & Engineering Services Limited' vide email dated 10.01.2025 informed that they will be unable to attend meeting and present their case.

Accordingly, the EAC decided to defer the matter.

#### 3.1.4. Deliberations by the EAC in current meetings

#### The EAC during deliberations noted the following:

- The Expert Appraisal Committee (EAC) deliberated on the information submitted by the Project Proponent and the details presented during the meeting. The Committee observed that the proposal pertains to the grant of Environmental Clearance for the Expansion of Tembhu Lift Irrigation Project in an area of 2284.601 ha at Village Tembhu, Ranad, Govare and etc, Sub District Khatav, Atpadi, Karad and etc, District Satara, Sangli and Solapur, Maharashtra by M/s Minor Irrigation Division, Sangli Water Resources Department, Maharashtra Krishna Valley Development Corporation.
- The project falls under Item 1(c) of the Schedule to the Environmental Impact Assessment (EIA) Notification, 2006, and is categorized as a Category 'A' project, which requires appraisal at the Central level by the Expert Appraisal Committee (EAC).
- The EAC, constituted under the provisions of the EIA Notification, 2006, and comprising expert members/domain experts from various relevant fields, examined the proposal submitted by the Project Proponent. This examination included a review of the Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) reports, which were prepared and submitted by a QCI/NABET-accredited consultant on behalf of the Project Proponent.
- The EAC further noted that the Ministry had granted Environmental Clearance (EC) to the existing project vide letter No. 12011/43/2003-A.I dated 17/08/2007, in favor of M/s. Minor Irrigation Circle, Maharashtra Krishna Valley Development Corporation, Warnali, Sangli for an Irrigation Command Area (ICA) of 80,472 ha. For the current expansion project, the Ministry has issued Terms of Reference (ToR) for conducting the Environmental Impact Assessment (EIA)/Environmental Management Plan (EMP) and a public hearing vide letter File No. J-12011/48/2023-IA.I(R) dated 02/11/2023.
- The EAC also noted that the project was previously considered during its 22<sup>nd</sup> meeting on 10/01/2025. However, the proposal was deferred as the Project Proponent (PP) did not attend the meeting.
- The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and

- Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- The EAC further noted that the total land area required for the project is 2282.90 ha, comprising 2272.18 ha of the existing project area and an additional 10.71 ha required for the proposed expansion. Of this additional land, 2.78 ha is non-forest land, while 7.93 ha is forest land. The PP informed that for the 7.93 ha of forest land, Stage-I Forest Clearance (FC) has already been obtained for 4.10 ha (vide FP/MH/Pipeline/466395/2024 dated 06/01/2025), while the proposal for the remaining 3.83 ha has been submitted for approval.
- The estimated project cost is ₹7370.03 crore, which includes the existing investment of ₹4088.14 crore. A total capital cost of ₹193.00 lakh has been allocated for environmental pollution control measures, with a recurring (operation and maintenance) cost of ₹160.00 lakh per annum.
- The Committee discussed the issues raised during the Public Hearing (PH) which was conducted in three districts as per the EIA Notification, 2006 and reviewed the action plan submitted by the Project Proponent to address these concerns. After careful deliberation, the Committee found the action plan satisfactory.
- The EAC observed that approval on the Hydrology has been obtained from State Government, vide letter (Marathi) . /0411/11/305.1-2019/02/04. The expert representative from CWC informed the Committee that DPR of the existing project was examined by the CWC; however, the PP has not submitted the DPR for concurrence of CWC for present expansion proposal.
- Additionally, the EAC noted that Certified Compliance Report of earlier EC conditions has been submitted by RO, MoEF&CC vide F. No. EC-2556/RON/2024-NGP/3436 dated 12th August, 2024. The RO, MoEF&CC raised serious concerns over compensatory afforestation, Multidisciplinary Committee, non-submission of half yearly compliance report etc. Taking cognizance of these issues, the EAC requested the PP to submit a closure report from the RO, MoEF&CC, addressing the observations/ suggestions provided by the RO, MoEF&CC.

The EAC after detailed deliberations deferred the proposal for want of following additional information:

- 1. PP shall submit the status of the 3.83 Ha of forest land for obtaining Stage-I Forest Clearance (FC), along with all relevant supporting documents.
- 2. PP shall submit a closure report from the RO, MoEF&CC, addressing the observations/suggestions provided by the RO, MoEF&CC.
- 3. The concurrence/approval of CWC for hydrology of the present expansion proposal shall be examined and a clarification of CWC in this regard be submitted.
- 4. The MoU for water usage for the proposed project shall be submitted along with an English-translated copy, duly attested by the PP.
- 5. PP shall submit detail plan on water utilization for existing project and proposed project.
- 6. PP shall submit details of land reclamation practices undertaken in the existing project. Based on these practices, a comprehensive plan for implementing land reclamation in the proposed expansion shall also be submitted.

3.	.1.5.	Recommend	lation	of EAC	2
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#### 4. Any Other Item(s)

N/A

#### 5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Prof G J Chakrapani	Chairman, EAC	cha**********@gmail.com	
2	Dr Mukesh Sharma	Member (EAC)	muk***@iitk.ac.in	Absent
3	Dr Uday Kumar R Y	Member (EAC)	uda******@yahoo.com	
4	Dr J A Johnson	Member (EAC)	jaj@wii.gov.in	Absent
5	Dr J V Tyagi	Member (EAC)	jvt*****@gmail.com	
6	Shri Kartik Sapre	Member (EAC)	kar*******@gmail.com	
7	Shri Ajay Kumar Lal	Member (EAC)	akl****@gmail.com	
8	Dr A K Sahoo	Member (EAC)	ami***@gmail.com	
9	Shri Balram Kumar	Member	emo***@nic.in	
10	Shri Rajeev Varshney	Member	rva*******@gov.in	
11	Y <mark>ogendra Pal Sing</mark> h	Scientist - F	yog******@nic.in	

# MINUTES OF THE 25<sup>TH</sup> MEETING (VIRTUAL) OF THE EXPERT APPRAISAL COMMITTEE FOR RIVER VALLEY AND HYDROELECTRIC PROJECTS HELD ON 27<sup>TH</sup> FEBRUARY, 2025

The 25<sup>th</sup> meeting of the EAC for River Valley & Hydro-electric Projects organized by the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi, was held on 27<sup>th</sup> February, 2025 (Virtual Mode), under the Chairmanship of Prof. G. J. Chakrapani. The list of Members present in the meeting is at **Annexure**.

## Confirmation of the Minutes of the 24th EAC meeting:

The Minutes of the Meeting held on 24<sup>th</sup> EAC meeting on 14<sup>th</sup> February, 2025 were confirmed.

## Agenda Item No. 25.1

Expansion of Tembhu Lift Irrigation Project in an area of 2284.601 ha at Village Tembhu, Ranad, Govare and etc, Sub District Khatav, Atpadi, Karad and etc, District Satara, Sangli and Solapur, Maharashtra by M/s Minor Irrigation Division, Sangli Water Resources Department, Maharashtra Krishna Valley Development Corporation—Environmental Clearance (EC) - reg.

#### [Proposal No. IA/MH/RIV/482689/2024; F. No. J-12011/48/2023-IA.I (R)]

**25.1.1:** The proposal is for grant of Environmental Clearance (EC) to the project for Expansion of Tembhu Lift Irrigation Project in an area of 2284.601 ha at Village Tembhu, Ranad, Govare and etc, Sub District Khatav, Atpadi, Karad and etc, District Satara, Sangli and Solapur, Maharashtra by M/s Minor Irrigation Division, Sangli Water Resources Department, Maharashtra Krishna Valley Development Corporation.

**25.1.2**: The Project Proponent and the accredited Consultant M/s MITCON Consultancy & Engineering Services Ltd., Pune, Maharashtra, made a detailed presentation on the salient features of the project and informed that:

i. Krishna Koyana Lift Irrigation Scheme (KKLI), which is under construction, provides irrigation benefits to drought prone Kadegaon, Khanapur, Tasgaon, Miraj &Kavathe Mahankal and Jat Taluka of Sangli districtand Songola and Mangalvedha taluka of Solapur of district. Takari Lift Irrigation Scheme provides irrigation in Khanapur, Kadegaon and Tasgaon talukas up to RL 2100 ft. while Mhaisal Lift Irrigation Scheme provides Irrigation in Miraj, and Kavathemahankal, Jath, Songala and Mangalvedha taluka up to RL 2200 ft. There was persistent demand for irrigation benefits to areas above RL 2100 ft from Kadegaon, Khanapur, Tasgaon, Atpadi, Sangola, Kavathe Mahankal talukas by way of Lift Irrigation Scheme. As it was not possible to make changes in scope of KKLIS, which was in advanced stage of construction, a separate lift irrigation scheme named Tembhu Lift

Irrigation Scheme was proposed for drought prone area of Kadegaon, Khanapur, Tasgaon, Atpadi, Sangola, Kavathemahankal taluka above RL 2100 Ft i.e. which could not be covered under KKLI scheme. Accordingly, a preliminary report based on topo sheet study was submitted to Govt. by C.E. (I.D.) Pune vide Letter No. PB/ Desk (2)/ DE (10) Tembhu/ 971 Dt. 22/02/1994 Govt. approved this proposal, vide letter No. 5-95/ 1093/ 668/ (140/93) WRI, DT. 15/04/1994 and directed to prepare D.P.R. of this scheme.

- ii. The barrage across Krishna River @ Tembhu is constructed. The F.S.L. of barrage is within the river bank. The 11 gates of size 15 x 9 m. are provided to let out the water from Krishna River to irrigate 80472 ha (ICA) of land from drought prone regions of Satara, Sangli and Solapur districts of Maharashtra state. (Total 5 stages).
- iii. The Proposed Expansion of Tembhu Lift Irrigation Project Taluka Karad, Dist. Satara, Sangli and Solapur, Maharashtra by M/s. Executive Engineer, Minor Irrigation Division, Sangli project envisage construction to irrigate ICA 41003 ha
  - Existing Khanapur Tasgaon Canal (Stage 6 A-6B LIS)
  - \* Kavathe Mahankal Canal (Bevnur Scheme)
  - ❖ Palashi LIS (Palshi LIS)
  - ❖ 3 A to Ghanand Canal (Man Khatav LIS)
  - Kamath Lake (Kamath Scheme)
  - ❖ Length of new pipeline proposed (PDN): 200 km
  - Length of proposed Distributaries: 1000 km
  - **❖** Total electricity requirement: 22 MW (Source: MSEDCL)
  - ❖ Water Utilization: Existing: 22.0 TMC + Proposed 8.00 TMC = Total 30.00 TMC
  - iv. Accordingly, detailed project Report of Tembhu Lift Irrigation Scheme was prepared which envisaged construction of barrage across river Krishna near village Tembhu and Lifting the stored water in 5 stages to irrigate 79600Ha. Of area from 7, taluka's of Satara, Sangli and Solapur district. This DPR was administratively approved by Govt. letter no. (Marathi) Tembhu 1095/1427/ (361/95) WRI dt. 19.02.1996. (for Rs. 1456.19 crores)
  - v. The project proposal was considered by the Expert Appraisal Committee (Hydro River Valley Sector) in its 51<sup>st</sup> meeting held during 12 Sept 2023 and recommended for grant of Terms of References (ToRs) for the Project. The ToR has been issued by Ministry vide letter File No: J-12011/48/2023-IA. I (R) Dated 02/11/2023.
  - vi. Earlier, Ministry had issued EC vide letter no. 12011/43/2003-A. I Dated August 17, 2007 to the existing project in favour of M/s. Minor Irrigation Circle, Maharashtra Krishna Valley Development Corporation, Warnali, Sangli.
  - vii. The geographical co-ordinate of the project are

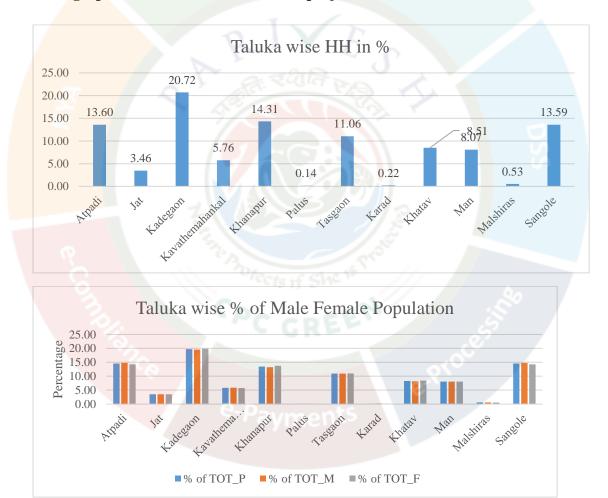
Location (Including coordinates)	Longitude: 74° 14' (East)
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Latitude: 17°17' (North)	
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## viii. Land requirement:

Nature of Land	Nature of Land		Total Area required	
involved in (Ha)	olved in (Ha) in Ha Proposed in Ha		after expansion in Ha	
Non-Forest Land	2265.13	2.78	2267.92	
Forest Land	7.05	7.93	14.98	
Total	2272.18	10.71	2282.90	

## ix. Demographic details in 10 km radius of project area:



## x. Water requirement:

District	Taluka	No. of	ICA	Water
		villages	(Ha)	Requirement

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				TMC
Sangli	1) Khanapur	11	6471	1.5
	2) Tasgaon	17	6026	1.00
	3) Kawathemahankal	9	2450	0.50
	4) Atpadi	12	5294	1.00
	5) Jat	4	2636	0.50
	Total of Sangli	53	22877	4.50
Satara	6) Khatav	21	7440	1.50
	7) Maan	27	5686	1.00
	Total of Satara District	48	13126	2.50
Solapur	8) Sangola	8	5000	1.00
	Total Of Solapur	8	5000	1.00
	District			
	Gross Total	109	41003	8.00

- xi. **Project Cost:** The estimated project cost is Rs 7370.03 Cr. including existing investment of Rs 4088.14 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 193.00 L and the Recurring cost (operation and maintenance) will be about Rs 160.00 L per annum.
- xii. **Project Benefit**: Total Employment will be 15 persons as direct & 360 persons indirect after expansion. Industry proposes to allocate Rs 820 Lakh @ of 0.25 % towards CER (as per Ministry's OM dated 1st May 2018).
- xiii. **Environmental Sensitive area:** There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. However, Mayani Bird Conservation Reserve & Other sacred groves are present within 10 km radius.

Sr.	Name of the	Deity	Tahsil	Distance	Direction
No.	Grove	9		2810	
1	Arewadi	Biroba	Kavathe Mahankal	3 km	SE
2	Raywadi	Lord Shiva	Kavathe Mahankal	3 km	W
3	Shukacharya	Sukhdev	Khanpur-Atpadi	2 km	NE
4	Mayani	Bird	Khatav	1.28	NE
		Conservation		km	
		Reserve*			

<sup>\*5.2</sup> km from Khatav Main Distributary

xiv. MoU / any other clearance/ permission signed with State government:

Sr. No.	Approvals	Amount	DSR	Remarks
1.	Original	1416.59	1995-	GOM vide letter No. Tembhu-
	Administrative		96	1095/ 1427 /(361/95)/WRI dated
	Approval			19/02/1996
2.	1 <sup>st</sup> Revised	2106.09	2000-	MKVDC letter No
	Administrative		01	MKVDDC/MP-6/(383/2002)/718
	Approval			dated 22/01/2004
3.	CWC Approval	3450.35	2009-	In 109 <sup>th</sup> Technical advisory
			10	committee of Central Water
				Commission meeting on
				14/03/2011
4.	2 <sup>nd</sup> Revised	4088.94	2016-	(work portion Rs.3729.82 Cr.+
	Administrative		17	ETP Rs.359.12 Cr)
	Approval cost	TS	/_	
5.	3nd Revised	7370.03	2022-	(work portion Rs.6708.48. Cr.+
	Administrative		23	ETP Rs.661.55 Cr)
-	Approval cost	A. Sa	14 BYE	
- 22	(Proposed)	3		7
6.	Up to date	3388.33	2022-	(work portion Rs.3155.52. Cr.+
	Expenditure	160	23	ETP Rs.232.81.Cr)
	September 2022			0,
7.	Balance Cost of	3981.69	2022-	(work portion Rs.3552.96cr
	Project		23	+ETP428.73cr)
8.	Stage 1 Clearance	-	-	Stage 1 Clearance received vide
6		online Proposal		online Proposal No.
(		Ofects if	She 15	FP/MH/Pipeline/ 466395/ 2024
				dated 06.01.2025

## xv. Resettlement and rehabilitation:

For the Expansion of Tembhu Lift Irrigation Project, private land of around 2.7825 Ha is proposed for acquisition. The land acquisition will be done and compensation shall be paid to land owners as per The Right to Fair Compensation & Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013. As there are no households in the land to be acquired, there is no issue of rehabilitation & resettlement of the land owners.

## **Details of Land Acquisition:**

Sr. No	Name of Farmers	Village	Gut No	Area in Ha
1.	Shri. Dattu Chandru More and Shri. Laxman Chandru More	Vejegaon Tal:- Khanapur, Dist. Sangli	145	0.28

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2.	Shri. Rajaram Govind Devkar Shri. Hanmant Govind Devkar	Vejegaon Tal:- Khanapur, Dist. Sangli	146	0.19
3.	Shri. Daval Malik Archak	Bhikavadi Tal:- Khanapur, Dist. Sangli	992	0.0625
4.	Shri. Uttam Atmaram Yadav and other	Renavi Tal:- Khanapur, Dist. Sangli	498	0.40
5.	Shri. Anil Pandhrinath Gaikead and other 10	Kasabe Vita east, Tal:- Khanapur, Dist. Sangli	194	0.40
6.	Smt. Sharada Ramchandra Nichal and other	Posewadi, Tal:- Khanapur, Dist. Sangli	836	0.05
7.	Shri. Arjun Tukaramkole and other	Dhonewadi, Tal:- Kanapur, Dist. Sangli	450	0.05
8.	Shri. Dipak Sadashiv Kanase and other 2	Vijaynagar, Tal- Khanapur, Dist. Sangli	309	0.05
9.	Ujawala Hindurao Sawant other 14	Vita putva	148	0.60
10.	Maruthi Deo and others	Palashi Tal:- Khanapur Dist. Sangli	610/3	0.20
11.	Jagubai Bhimrao Chandanshive, Mangal Bhimrao Chandanshive and other	Palashi Tal:-Khanapur, Dist. Sangli	602	0.40
12.	Umesh Sukhdeo Jadhav, Sulochna Sukhdeo Jadhav and other	Palashi Tal:- Khanapur, Dist. Sangli	232	0.10 2.7825 Ha
1 Otal	70		9 X Y	2.7023 11d

# xvi. Scheduled –I species:

Sr.	Class	Scientific Name	Common Name	IWPA Status	IUCN
No					Status
1.	Mammal	Canis lupus	Grey Wolf	Schedule - I	LC
2.	Mammal	Antilope cervicapra	Blackbuck	Schedule – I	LC
3.	Mammal	Hyena hyaena	Striped Hyeana	Schedule – I	Not
					Enlisted
4.	Mammal	Vulpes bengalensis	Bengal Fox	Schedule – I	LC
5.	Mammal	Bos gaurus	Gaur	Schedule – I	VU

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Sr.	Class	Scientific Name	Common Name	IWPA Status	IUCN
No					Status
6.	Mammal	Prionailurus	Rusty Spotted Cat	Schedule – I	NT
		rubiginosus			
7.	Mammal	Felis chaus	Jungle Cat	Schedule – I	LC
8	Bird	Pavo cristatus	Indian Peafowl	Schedule – I	LC
9.	Bird	Accipiter badius	Shikra	Schedule – I	LC
10.	Bird	Haliastur indus	Brahminy Kite	Schedule – I	LC
11.	Reptile	Crocodylus palustris	Mugger	Schedule – I	VU
12.	Reptile	Fowlea piscator	Chequered	Schedule – I	LC
		vc	keelback		
13.	Reptile	Ptyas mucosa	Dhaman	Schedule - I	LC
14	Reptiles	Varanus bengaiensis	Bengal Monitor	Schedule - I	EN
15	Bird	Platalea leucorodia	Eurasian	Schedule – I	LC
			Spoonbill		
16	Bird	Sterna aurantia	River Tern	Schedule – I	VU
17	Bird	Circaetus gallicus	Short-toed	Schedule – I	LC
	T	I Q ' state	Snake-Eagle	Z	
18	Bird	Tringa nebularia	Common	Schedule – I	LC
			Greenshank		D
19	Bird	Aythya ferina	Common Pochard	Schedule - I	LC
20	Bird	Pericrocotus	Small Minivet	Schedule - I	LC
		cinnamomeus			
21	Bird	Clanga clanga	Greater Spotted	Schedule – I	VU
	6	3	Eagle		

<sup>\*</sup> VU = Vulnerable; \*\* $NT = Near\ Threatened$ , EN = Endangered

# xvii. Baseline Environmental Scenario:

Period	From 01/03/2023	to 31/12/2023	200				
AAQ	• PM10 = 23.5 to 76.3 μg/m3						
parameters	• $PM2.5 = 12.4$	to 31.9 μg/m3					
at 14 locations	• $SO2 = 6.2 \text{ to}$	16.5 μg/m3					
(min. & Max.)	• NOx = $10.4$ to $23.2 \mu g/m3$ .						
	• CO = BDL						
Surface	Parameter	Season 1	Season 2	Season 3			
water	рН	7.01 to 7.43	7.02 to 7.49	7.1 to 7.5			
samples	TDS	385 to 1459	357 to 1662	492 to 1415			
(10	103	mg/lit.	g/lit.	mg/lit.			
samples	Total	154.3 to 517	169.54 to				
)	Hardness as		169.54 to 490.12 mg/lit.	171 to 514 mg/lit.			
	CaCO3	mg/lit.	490.12 mg/m.				

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		-				
	Calcium as		5.13 to 113.3'		o 130. <sup>2</sup>	45 48 to 110 mg/lit
	Ca		g/lit	mg/lit	02.0	22
	Magnesium as Mg		3.13 to 83.23 g/lit	8 20.14 mg/lit	.0 83.0	23 to 80 mg/lit
	as wig		3.25 to 130.1:		0 120 1	16
	Chloride as Cl		9.25 to 150.1. g/lit	mg/lit .	0 130.	19 to 104 mg/lit
	Sulphate as	_	2.16 to 145.25		n 148 1	13
	SO4		g/lit	mg/lit	0 170.	33 to 142 mg/lit.
	BOD		to 9 mg/lit	5 to 13	mg/lit	4 to 10 mg/lit
	COD		to 33 mg/lit	19 to 47		
	DO		7 to 4.7 mg/li			
	Total			Сл		
	Coliforms	pı	resent	present		present
Ground Water						
samples at 36	Parameters	S	eason 1	Season	2	Season 3
location	pН	7.	02 to 7.57	7.08 to	7.62	7.03 to 7.78
S	Total	3	14 to 2012	2 320 to	0 199	90 289 to 2183
7	Dissolved	m	g/lit.	mg/lit.		mg/lit.
$\mathcal{L}$	Solids			( ) T		
	Total		10.56 to			to 125.16 to
	Hardness as		58.13 mg/lit.	771.19	mg/lit.	767.52 mg/lit.
	CaCO3					
	Calcium as		1.08 to 124.			
	Ca		g/lit &	mg/lit &		mg/lit
0	0		3.26 to 92.14	- C	to 95.2	
\	as Mg		g/lit	mg/lit	1150	mg/lit
\ %	Chloride as Cl		4.25 to 110.92		0 115.2	9.0
30,	& Sulphata as		ng/lit & mg/lit 4.92 to 120.15 16.02		120 1	mg/lit
16	Sulphate as SO4		1.92 to 120.1. g/lit.	5 16.02 to mg/lit.	0 120.	14   15.9 to 131.15 mg/lit.
Noise levels Leq					. bo	IIIg/III.
(Day & Night)	The Leq values	ior a	ay time was o	bserved to	be	
at 25 locations	Zone /Area	-Pa	Day Time		Nigh	t Time
	Residential Zone		47.3-to 54.8	dB (A)	39.1t	o 43.8 dB (A).
	Silent Zone		41.6-to 48.9	dB (A)	33.2	to 39.8 dB (A).
	Commercial		66.5 to 69.4	dB (A	60.5	to 64. 2 dB (A).
	Zone					
Soil Quality at	Parameters	Seaso	on 1	Season 2		Season 3
30 Locations	pН	7.35	to 8.05.	7.21 to 7.	92.	7.02 to 8.24.
	Conductiv	411.8	3 to 900.8	501.6	to 4	424.5 to 872.5
	ity	μs/cm.		1014.6	ŀ	us/cm.
				μs/cm.		
·			·			

	N	132.12	to	168.9	118.47	to	138.15	to	185.15
		kg/ha			160.3 kg	/ha	kg/ha,		
	P	9.15 to 2	25.2	kg/ha	11.02 to	19.1	13.45 to	24.1	kg/ha
					kg/ha				
	K	152.13	to	204.3	124.05	to	148.1	to	211.67
		kg/ha			206.1 kg	/ha	kg/ha		
Flora &	Total 172 floral species were recorded in and around the project area								
Fauna	(i.e. 10 km radius study). Among them 41 Herbs, 97 Trees, 27 shrubs								
	& climbers were 7.								
	Fauna Diversity: Mammals - 15, Bird - 135, Fishes-109, Frog -3,								
	Reptile -4,								
	Ca								
	Total 22 Scheo	lule 1 spe	ecies	observ	ved in the	study	area		

xviii. Details of Solid waste/ Hazardous waste generation/ Muck and its management

## **Domestic Waste:**

Name of Waste	Source	Qty (TPA)
Dry Waste	La <mark>bour</mark> Colony	39.42
Wet Waste	Labour Colony	26.28

## **Details of Excavation Waste (Muck)**

Name of Waste	Qty (cu.m)
Quantity of cutting material (muck)	2906835
Proposed utilization /dispose of cutting material	2558014.624
Quantity of filling material	348820.176
Source of filling Material	Trench
	cutting

The detail of the muck likely to be disposal at low lying area adjacent to project site

Sr. No	Stage of LIS	Total Muck quantity in cum
1	Man Khatav	104646
2	Kamat	69764
3	Bevnoor	69764
4	6 A and 6 B	34882
5	Palshi	34882

6	Budhyal	34882

xix. **Public Hearing Details**: Public Hearing for the proposed project has been conducted by the State Pollution Control Board at three districts separately.

Advertisement for PH	Marathi Newspaper:
with date	Sangli: Sakal Dated 19.01.2024
	Solapur: Sanchar 31.01.2024,
	Satara: Pudhari Dated 01.02.2024,
	English Newspaper:
- K	Sangli: The Times of India Dated 19.01.2024,
e	Solapur: Divya Marathi Dated 31.01.2024,
	Satara: The Indian Express Dated 01.02.2024
Date of Public Hearing	1. Sangli: 21/02/2024
	2. Solapur: 01/03/2024
	3. Satara: 05/03/2024
Venue	1. Vita Panchayat Samiti, Vita, Khanapur, Sangli
	2. Bachat Bhavan Auditorium, Panchayat samite, Sangola,
$\simeq$	Solapur
	3. Tai Convention Hall, Shri Shivaji Maharaj Chowk,
	Satara
Chaired by	1. Dr. Raja Dayanidhi, Chairman & District Magistrate,
7	Sangli
1 1/2	2. Mrs. Manisha Kumbhar, Chairman & Additional
9	District Magistrate, Solapur
S /	3. Shri. Nagesh Patil, Chairman & Upper District
3 1	Magistrate (Residential Deputy Collector), Satara
Main issues raised during	All the participants raised the water scarcity issue by heart.
PH	Many years the local people are suffering due to drought
No. of people attended	Sangli: 157
	Solapur: 102
	Solapur: 140

## xx. Details of Certified compliance report submitted by RO, MoEF&CC.

Dr. P. R. Sakhare, Scientist E, inspected the site to check implementation of environmental safeguards status on 29.07.2024.

Status of compliance of conditions stipulated in the environmental clearance granted by MOEF & CC New Delhi vide letter No. J-12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office, Nagpur, vide F. No. EC-2556/RON/2024-NGP/3436 dated 12<sup>th</sup> August, 2024.

## xxi. Status of Litigation Pending against the proposal, if any: NIL

# xxii. The salient features of the project are as under:

# • EAC Meeting Details:

EAC meeting/s	Agenda ID: EC/AGENDA/EAC/216917/2/2025				
	Agenda Of 25th Meeting Of The Expert Appraisal				
	Committee				
Date of Meeting/s	27/02/2025				
Date of earlier EAC meetings	51st Meeting of EAC, MoEFCC, New Delhi held on				
210	12/09/2023 (Agenda Item No. 51.4) for Terms of				
KYC	Reference (ToR)				
	22nd Meeting of The Expert Appraisal Committee				
	held on 10.01.2025 for EC (PP Absent)				

# • Project details:

Name of the Proposal	Proposed Expansion of Tembhu Lift Irrigation Project Dist. Satara, Sangli and Solapur, Maharashtra				
Proposal No.	IA/MH/RIV/482689/2024				
Location Location	Longitude: 74° 14' (East)				
(Including Coordinates)	Longitude. 74 14 (Last)				
(including coordinates)	Latitude: 17°17' (North)				
Company's Name	Executive Engineer				
307	Minor Irrigation Division, Sangli				
O. T.	Water Resource Department				
CA	Maharashtra Krishna Valley Development				
	Corporation				
You have	(MKVDC), District Sangli 416 415				
CIN no. of Company/user agency	9,0				
Accredited Consultant and	MITCON Consultancy & Engineering Services Ltd.,				
certificate no.	Pune, Maharashtra				
	Certificate No. NABET/EIA/24-27/RA 0343				
Project location (Coordinates	Longitude: 74o 14' (East)				
/River/	Latitude: 17o17' (North)				
Reservoir)	Latitude: 17017 (North)				
Inter- state issue involved	No				
Proposed on River/ Reservoir	-				
Type of Hydro-electric project	Not Applicable				
Seismic zone	Zone III (i. e. Moderate Risk Zone)				

## • Category details:

Catego	1 (c) C	Cat. 'A'								
ry of										
the										
project										
Capaci ty /				Command Area						
Cultur al	Sr No	Taluka	Dist rict	G	CA	C	CA	I	CA	
comm				Exist	Exten	Exist	Exten	Exist	Exten	
and area	A	Karad	Satar	1150	0	860	0	600	0	
(CCA)	В	Khanapur	Sang li	4113	19691	3292 1	11902	1897 5	6471	
7	С	Kadegaon	Sang li	2021	0	1617 9	0	9325	0	
7	D	Tasgaon	Sang li	2057	15280	1545 0	11083	7700	6026	
	Е	Atpadi	Sang li	6156 9	9015	4310	9737	1600	5294	
	F	Sangola	Sola pur	3650	20745	2920 0	5876	2000	5000	
0	G	Jat	Sang li	•	6506	<u>.</u>	4848	-	2636	
ે	Н	Kavathe Mahankal	Sang li	1747 5	12455	1030	<b>78</b> 26	7872	2450	
	I	Khatav	Satar a	GR	18362		13685	, I	7440	
	J	Man	Satar a	1	14033	-e-S	10458	-	5686	
		Total	<sup>9</sup> -Pay	1986 14	11608 7	1480 10	75415	8047	41003	
Attract	Yes, I	Bird Conservat	ion Res	erve loc	ated @ 1	.2 km fr	om prop	osed alig	gnment	
s the										
Genera										
1										
Condit .										
ions (Voc/N										
(Yes/N o)										
Additi										
Auulu										

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onal	
inform	
ation	
(if	
any)	

## • ToR/EC Details:

ToR	IA/MH/RIV/439901/2023, F. No. J-12011/48/2023-IA. I (R)					
Proposal No.	N/C					
EAC	12/09/2023					
meeting date			1,6			
ToR Letter	F.No. J-12011/4	18/2023-IA. I (R	2)			
No.		1 /				
ToR grant	02/11/2023	TIA	E o			
Date		_0-50				
Cost of	Existing Project	:: Rs 4088.14				
project	Proposed Expar	nsion: Rs. 3281.	89			
	Total Cost: Rs.	7370.0				
Total area of	Nature of	Area	Additional	Total Area		
Project	Land	Existing in	Area Proposed	required after		
	involved in	Ha	in Ha	<mark>ex</mark> pansion in Ha		
	(Ha)					
	Non-Forest	2265.138	2.7825	2267.92		
100	Land		Pro			
8	Forest Land	7.051	7.93	14.981		
3	Total	2272.189	10.7125	2282.902		
Height of	NA					
Dam from	5_					
River Bed	(e)					
(EL)			er.			
Details of	Not applicable a	s there is no sub	<mark>omerge</mark> nce.			
submergence						
area						
District to	_		posed (PDN) : 200	km		
provide	Length of p	roposed Distrib	utaries :1000 km			
irrigation						
facility (if						
applicable)						
Details of	Not Applicable					
tunnels on						
upper level						

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& lower level and length of canal (if applicable)					
No. of affected Village.	9				
No. of Affected	SI	Name of Farmers	Village	Gut No	Area in Ha
Families	1	Shri. DattuChandruMore and Shri. LaxmanChandruMore	Vejegaon Tal:- Khanapur, Dist. Sangli	145	0.28
	2	Shri. Rajaram GovindDevkar Shri. Hanmant Govind Devkar	Vejegaon Tal:- Khanapur, Dist. Sangli	146	0.19
	3	Shri. DavalMalik Archak	Bhikavadi Tal:- Khanapur, Dist. Sangli	992	0.0625
	4	Shri. Uttam Atmaram Yadav and other	Renavi Tal:- Khanapur, Dist. Sangli	498	0.40
	5	Shri. Anil Pandhrinath Gaikead and other 10	Kasabe Vita east, Tal:-Khanapur, Dist. Sangli	194	0.40
	6	Smt. Sharada Ramchandra Nichaland other	Posewadi, Tal:- Khanapur, Dist. Sangli	836	0.05
	7	Shri. Arjun Tukaram Kole and other	Dhonewadi, Tal:- Kanapur, Dist. Sangli	450	0.05
	8	Shri. Dipak Sadashiv Kanaseand other 2	Vijaynagar, Tal- Khanapur, Dist. Sangli	309	0.05
	9	Ujawala Hindurao Sawant other 14	Vita putva	148	0.60

	10	Maruthi Deoa	and other	-	Palashi T Khanapu Sangli		6.	10/3	0.20
	11	Jagubai Bhim Chandanshive Bhimrao Chan and other	e, Mang	gal	Palashi T Khanapu Sangli			02 (	0.40
	12	Sulochna Suk Jadhav and ot	hdeo		Palashi T Khanapu Sangli	ır, Dist.		32 (	0.10
	Tota	ıl e			2.	7825 H	a		
Project Benefits  R&R details	arou be de	irrigated, farmers are shifting from food crops like sorghum, pearl millet and wheat to Cash crops like sugarcane, pulses, grapes, and Pomegranate.  Provide better consumer experience and improved operational performance with an end-to-end coverage from pump house to water distribution network with minimum water charges cost to farmers.  The drought prone area earlier is transforming to horticulture hub.  Improvement in operational performance and reliability in water supply by futuristic interventions enabled through SCADA interventions qualifying smart utilities and digital utilities.  Generation of Employment - The draught prone area under the jurisdiction of Tembhu LIS has limited activities for income generation.  For the Expansion of Tembhu Lift Irrigation Project, private land o around 2.7825 Ha is proposed for acquisition. The land acquisition will be done and compensation shall be paid to land owners as per The Righ						ational ational ouse to cost to re hub. a water CADA der the ncome land of ion will he Right	
Command				1.0.1.1.1.1					
area						Comma	nd Are	a	
	Sr No	Taluka	Dist rict	G	CA	C	CA	I	CA
				Exis ting	Exte nded	Exis ting	Exte nded	Exis ting	Exte nded
	A	Karad	Sata ra	1150	0	860	0	600	0

	T	<del></del>		10.70	2202	1100	100=	
В	Khanapur	San gli	4113	1969 1	3292	1190	1897	6471
C	Kadegaon	San gli	2021 5	0	1617 9	0	9325	0
D	Tasgaon	San gli	2057	1528 0	1545 0	1108 3	7700	6026
E	Atpadi	San gli	6156 9	9015	4310 0	9737	1600 0	5294
F	Sangola	Sola pur	3650 0	2074 5	2920	5876	2000	5000
G	Jat	San gli		6506	-	4848	-	2636
Н	Kavathe Mahankal	San gli	1747 5	1245 5	1030	7826	7872	2450
Ι	Khatav	Sata ra	19	1836 2	-	1368 5	-	7440
J	Man	Sata ra		1403	-	1045 8	- 7	5686
	Total		1986 14	1160 87	1480 10	7541 5	8047	4100 3
Nan	ne of Waste	Source	9	Qty	(TPA)			
Dry	Waste Labour C		Colony	olony 39.42				
Wet	Waste	Labour	Labour Colony 26.28					
Sr No	Type of n		Total generated quantity in excavation in cum		Total generated quantity in excavation in Mm <sup>3</sup>		n	
1	Soft Soil		225174.6		0.225175			
2	Hard murun Rock		505580.2		0.50558			
				2176080		2.176080		1
3	Hard Rock			21760	80	2.	176080	
	C D E F G H I J Nam Dry Wet Sr No	Khanapur  C Kadegaon  D Tasgaon  E Atpadi  F Sangola  G Jat  H Kavathe Mahankal  I Khatav  J Man  Total  Name of Waste  Dry Waste  Wet Waste  Sr No  1 Soft Soil  2 Hard murun	Khanapur gli  Khanapur gli  Kadegaon gli  Kadegaon gli  Kasan gli  Katpadi gli  Kasan gli  San gli  Sola pur  San gli  Kavathe San gli  Kavathe San gli  Kavathe San gli  Khatav sata ra  J Man Sata ra  Total  Name of Waste Source  Dry Waste Labour  Wet Waste Labour  Sr Type of material  No Sata ra  Total	B       Khanapur       gli       5         C       Kadegaon       San gli       2021 5         D       Tasgaon       San gli       2057 0         E       Atpadi       San gli       6156 gli       9         F       Sangola       Sola gli       3650 pur       0         G       Jat       San gli       1747 5       5         I       Kavathe Mahankal gli       Sata ra       -       -         J       Man       Sata ra       -       -         J       Man       Sata ra       -       -         Dry Waste       Source       Dry Waste       Labour Colony         Wet Waste       Labour Colony         Sr       Type of material No       To get and material	Khanapur   gli   5	B       Khanapur       gli       5       1       1         C       Kadegaon       San gli       2021 5       0       1617 9         D       Tasgaon       San gli       2057 0       1528 0       1545 0         E       Atpadi       San gli       6156 9 9       9015 4310 0       4310 0       2074 2920 0 <th< th=""><th>B       Khanapur       gli       5       1       1       2         C       Kadegaon       San gli       2021 5       0       1617 9       0         D       Tasgaon       San gli       2057 1528 1545 1108 3       1108 3         E       Atpadi       San gli       0       0       0       3         E       Atpadi       San gli       9       9015 4310 0 9737       5876         F       Sangola       Sola gli       9       9015 4310 0 9737       5876         G       Jat       San gli       -       6506 2074 2920 5876       5876       5876         G       Jat       San gli       -       6506 5 0       -       4848         H       Kavathe Mahankal       San gli       5       5       0       7826         J       Man       Sata ra       -       1836 2       -       1368 5         J       Man       Sata ra       -       1403 3       -       1045 8         J       Man       Parametrial ra       1986 1160 1480 1480 15       7541 15       5         Name of Waste       Source       Qty (TPA)       Quantity in excavation in cum       10       20</th><th>  Khanapur   gli   5</th></th<>	B       Khanapur       gli       5       1       1       2         C       Kadegaon       San gli       2021 5       0       1617 9       0         D       Tasgaon       San gli       2057 1528 1545 1108 3       1108 3         E       Atpadi       San gli       0       0       0       3         E       Atpadi       San gli       9       9015 4310 0 9737       5876         F       Sangola       Sola gli       9       9015 4310 0 9737       5876         G       Jat       San gli       -       6506 2074 2920 5876       5876       5876         G       Jat       San gli       -       6506 5 0       -       4848         H       Kavathe Mahankal       San gli       5       5       0       7826         J       Man       Sata ra       -       1836 2       -       1368 5         J       Man       Sata ra       -       1403 3       -       1045 8         J       Man       Parametrial ra       1986 1160 1480 1480 15       7541 15       5         Name of Waste       Source       Qty (TPA)       Quantity in excavation in cum       10       20	Khanapur   gli   5

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34 1	NI-4 A1:1.1.
Material	Not Applicable
used for	
blasting and	
its	
composition	
as per	
DGMS	
standards.	
E-Flows for	NA
the Project	
Is Projects	NA
earlier	CA
studied in	
Cumulative	
Impact	T
assessment	RIVE
& Carrying	
Capacity	A STATE OF A
studies(CIA	
&CC) for	
River in	
which	
project	
located. If	
yes then	
E-flow with	
TOR/Recom	Potent Color &
mendation	311 311
by EAC as	CAC GREEN STO
per per	GRED
CIA&CC	
study of	C Pro
River Basin.	
River Dasiii.	e-Payments
If not the E-	
Flows	
maintain	
criteria for	
sustaining	
river	
ecosystem.	NT A
Details on	NA
provision of	

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fish pass	
Project	During construction phase
benefit	
including	Permanent employment
employment	<ul> <li>No. of permanent employment: 360</li> </ul>
details (no of	<ul> <li>Period of employment (days): 730</li> </ul>
employee)	Temporary employment
	Temporary / Contractual employment (No. of Man days): 33000
	During operational phase
	Permanent employment proposed: 10
	Temporary employment proposed: 5
Area of	Compensatory land 4.50 ha non forest land gut no. 36 at Village Pimpri
Compensator	B, Tal Atpadi, Dist Sangli selected for Compensatory afforestation. 130
У	number of trees will be affected and same will be transplanted in nearby
Afforestation	area.
(CA) with	
tentative no	
of plantation.	
Previous EC	Environmental clearance for 80472 ha ICA. Vide letter
details	No.12011/43/2003-A.I Dated August 17,2007
EC	Dr. P. R. Sakhare, Scientist E, inspected the site to check
Compliance	implementation of environmental safeguards status on 29.07.2024.
Report by	20
	Status of compliance of conditions stipulated in the environmental
MOEF&CC	clearance granted by MOEF &CC New Delhi vide letter No. J-
	12011/43/2003-IAI, dated 17.08.2007 submitted by Regional Office,
	Nagpur, vide F. No. EC-2556/RON/2024-NGP/3436 dated 12th
	August 2024

# • Muck Management Details:

No. of	Sr	No	Stage	e of LIS	Tota	al Muck quantity in	
proposed	51.	110	Stage	OI LIS		cum	
disposal area/		1	Man	Khatav		104646	
(type of		2	K	amat		69764	
Land /Pvt.	3	3	Be	vnoor		69764	
land)	4	4	6 A a	and 6 B		34882	
	4	5	Pa	alshi		34882	
	(	6	Bu	dhyal		34882	
	Muck	likely	to be disposal	at low lying area	a adjac	ent to project Site	
Cross section	Utili	zation	of 80 % of	excavated mate	erial sl	nall be backfilled in	
of proposed	Appı	roach 1	oads, Convey	ance roads, Pun	ір Ноі	ise and 20% shall be	
muck area,	filled	d in lov	v laying areas	and local bunds	of agri	culture land.	
Height of							
muck with							
slope.			~ I \	1			
Distance of	Avera	ige 0 ki	n to 5 km	C 0			
muck							
disposal							
area(location)							
, from muck							
, from muck generation							
generation							
generation sources							
generation sources (project							
generation sources (project area)/River,							
generation sources (project area)/River, HFL of							
generation sources (project area)/River, HFL of proposed		Nam	Protects if	She is produce		DSS Su	
generation sources (project area)/River, HFL of proposed muck		NAMA	Stage of	She is Protected	Tota	al Muck quantity in	
generation sources (project area)/River, HFL of proposed muck disposal area.	Sr Na	0	Stage of	LIS	Tota	al Muck quantity in cum	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck	Sr Na	0	Stage of Man Kh		Tota	•	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck	Sr. No	0	G	atav	Tota	cum	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck	Sr. No	0	Man Kh	atav at	Tota	<b>cum</b> 104646	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck	Sr. No. 1 2	0	Man Kh Kam	atav at oor	Tota	cum 104646 69764	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck	Sr. No. 1 2 3	0	Man Kh Kam Bevno	atav at oor 6 B	Tota	cum 104646 69764 69764	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck	Sr. No. 1 2 3 4	0	Man Kh Kam Bevno	atav at oor 6 B	Tota	cum 104646 69764 69764 34882	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck	Sr. No. 1 2 3 4 5		Man Kh Kam Bevno 6 A and Palsh Budhy	atav at oor 6 B	e ox	cum 104646 69764 69764 34882 34882	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck Disposal Area	Sr. No. 1 2 3 4 5 6		Man Kh Kam Bevno 6 A and Palsh	atav at oor 6 B ni yal	ated	cum 104646 69764 69764 34882 34882 34882	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck Disposal Area	Sr. No. 1 2 3 4 5 6 Sr		Man Kh Kam Bevno 6 A and Palsh Budhy	atav at oor 6 B ni yal  Total genera	ated n	cum 104646 69764 69764 34882 34882 34882 Total generated	
generation sources (project area)/River, HFL of proposed muck disposal area. Total Muck Disposal Area  Estimate Muck to be	Sr. No. 1 2 3 4 5 6 Sr		Man Kh Kam Bevno 6 A and Palsh Budhy of material	atav at bor 6 B ni yal  Total genera quantity i	ated n cum	cum 104646 69764 69764 34882 34882 34882 Total generated quantity in	

	2	Hard murum &		0.50558
		soft Rock	505580.2	
	3	Hard Rock	2176080	2.176080
		Total	2906835	2.90684
Transportation	By	Road		
Monitoring	Env	rironmental Managem	ent Cell (EMC) shall n	nonitor mechanism of
mechanism	muc	ck disposal.		
for Muck				
Disposal				
Transportation		-KAC	Ca	

# • Land Area Breakup:

Private land	2265.138 + 2.7825 = 2267.92						
Government land/Forest	7.051 + 7.9	7.051 + 7.93 = 14.981					
Submergence	NA						
area/Reservoir area	Total Contract						
Land required for project components	Nature of Land involved in (Ha)	Area Existing in Ha	Additional Area Proposed in Ha	Total Area required after expansion in Ha			
Z.	Non- Forest Land	2265.138	2.7825	2267.92			
8	Forest Land	7.051	7.93	14.981			
3	Total	2272.189	10.7125	2282.902			

## • Presence of Environmentally Sensitive areas in the study area

Forest Land/	Yes/		<b>Details</b> of	of Certificate/	
Protected Area	No		letter	/ Remarks	
/					
Environmenta					
1 Sensitivity					
Zone					
Reserve	Yes				
Forest/Protect		Nature of	Area	Additional	Total Area
ed Forest		Land	Existing	Area	required after
Land		involved in	in Ha	Proposed in	expansion in
		(Ha)		Ha	Ha

		For	est Land	7.051	7.93		14.981
				conservation			
		Sr.	Name of	Deity	Tahsil	<b>Distance</b>	<b>Direction</b>
		No	the	Deity	1 ansn	Distance	Direction
		140	Grove				
		1	Arewadi	Biroba	Kavathe	3km	SE
			Arewaui	Биова	Mahanka	SKIII	SE
					lviananka 1		
		2	Raywadi	Lord Shiva	Kavathe	2km	W
					Mahanka		
		NC.			1		
	0-1	3	Shukach	Sukhdev	Khanpur-	2km	NE
			arya		Atpadi		
		4	Mayani	Bird	Khatav	1.28 km	NE
			IN	Conservati			
		$\mathcal{V}$	T A	on			
		N- "		Reserve*			
.7		*5.2 k	km from Kh	atav Main Di	stributary		
National	No	-9%					
Park						U	
Wildlife	No			as per Parivesl	n Web porta	ı <mark>l u</mark> nder app	olicability of
Sanctuary		green	clearances				
Archaeolo	No	No w	ithin 10 km	Radius			
gical sites	5	) /(					
monumen		3					
ts/historic		63					
al temples							
etc.		C		-11		.80	
Additiona			CGR	SEE,		5	
informatio	on						
(if any)	100 /				010		

• Court case details: Nil

• Status of other statutory clearances

Particulars	Letter no. and date
Status of Stage- I FC	Stage 1 Clearance received vide
	online Proposal No.
	FP/MH/Pipeline/466395/2024 dated
	06.01.2025
Approval of Central Water Commission	In 109th Technical advisory

	committee of Central Water	
	Commission meeting on 14/03/2011	
Approval of Central Electricity Authority	NA	
Additional detail (If any)	NA	
Is FRA (2006) done for FC-I	-	

#### • Details of the EMP

Sr.	Pollution Control & Other	Capital	Recurring Cost	
No	Environment Infrastructure	Cost	(per annum) Rs. Lakhs	
		Rs. Lakhs		
1.	Ambient Air Quality	- ~	18.00	
2.	N <mark>oise</mark> Level	-	12.00	
3.	Surface and Ground Water Quality	-	25.00	
4.	Soil Quality	E -	15.00	
5.	Solid/ hazardous wastes	03.00	15.00	
6.	Green Belt Development	400.00	50.00	
7.	Fisheries Conservation & Management	15.00		
	Plan			
8.	Labour Management Plan	25 <mark>.</mark> 00	Š	
9.	Wildlife Conservation Plan	75.00		
10.	Muck Management Plan	25.00		
11.	Health & Safety	1/- 5	25.00	
12.	Command Area Development Plan	24887.00		
13.	Corporate Environmental Responsibility	820.00	-	
Summary of allocation of fund for EMP				
1.	EMPs: (eg.: Air Environment, Water	193.00 L		
	Environment)			
2.	Capital Cost (in Cr.)	3281.89		
3.	Recurring Cost per annum (In Lakhs)	// 6	160.00 L	

## 25.1.3 The EAC during deliberations noted the following:

• The Expert Appraisal Committee (EAC) deliberated on the information submitted by the Project Proponent and the details presented during the meeting. The Committee observed that the proposal pertains to the grant of Environmental Clearance for the Expansion of Tembhu Lift Irrigation Project in an area of 2284.601 ha at Village Tembhu, Ranad, Govare and etc, Sub District Khatav, Atpadi, Karad and etc, District Satara, Sangli and Solapur, Maharashtra by M/s Minor Irrigation Division, Sangli Water Resources Department, Maharashtra Krishna Valley Development Corporation.

- The project falls under Item 1(c) of the Schedule to the Environmental Impact Assessment (EIA) Notification, 2006, and is categorized as a Category 'A' project, which requires appraisal at the Central level by the Expert Appraisal Committee (EAC).
- The EAC, constituted under the provisions of the EIA Notification, 2006, and comprising expert members/domain experts from various relevant fields, examined the proposal submitted by the Project Proponent. This examination included a review of the Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) reports, which were prepared and submitted by a QCI/NABET-accredited consultant on behalf of the Project Proponent.
- The EAC further noted that the Ministry had granted Environmental Clearance (EC) to the existing project vide letter No. 12011/43/2003-A.I dated 17/08/2007, in favor of M/s. Minor Irrigation Circle, Maharashtra Krishna Valley Development Corporation, Warnali, Sangli for an Irrigation Command Area (ICA) of 80,472 ha. For the current expansion project, the Ministry has issued Terms of Reference (ToR) for conducting the Environmental Impact Assessment (EIA)/Environmental Management Plan (EMP) and a public hearing vide letter File No. J-12011/48/2023-IA.I(R) dated 02/11/2023.
- The EAC also noted that the project was previously considered during its 22<sup>nd</sup> meeting on 10/01/2025. However, the proposal was deferred as the Project Proponent (PP) did not attend the meeting.
- The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- The EAC further noted that the total land area required for the project is 2282.90 ha, comprising 2272.18 ha of the existing project area and an additional 10.71 ha required for the proposed expansion. Of this additional land, 2.78 ha is non-forest land, while 7.93 ha is forest land. The PP informed that for the 7.93 ha of forest land, Stage-I Forest Clearance (FC) has already been obtained for 4.10 ha (vide FP/MH/Pipeline/466395/2024 dated 06/01/2025), while the proposal for the remaining 3.83 ha has been submitted for approval.
- The estimated project cost is ₹7370.03 crore, which includes the existing investment of ₹4088.14 crore. A total capital cost of ₹193.00 lakh has been allocated for environmental pollution control measures, with a recurring (operation and maintenance) cost of ₹160.00 lakh per annum.

- The Committee discussed the issues raised during the Public Hearing (PH) which was conducted in three districts as per the EIA Notification, 2006 and reviewed the action plan submitted by the Project Proponent to address these concerns. After careful deliberation, the Committee found the action plan satisfactory.
- The EAC observed that approval on the Hydrology has been obtained from State Government, vide letter (Marathi) शासन ननर्णय क्र. ਟੇਂਮ੍ਲਪ੍ਰਸੀ- /0411प्रक्र/11/305.मोप्र1- नि2019/02/04. The expert representative from CWC informed the Committee that DPR of the existing project was examined by the CWC; however, the PP has not submitted the DPR for concurrence of CWC for present expansion proposal.
- Additionally, the EAC noted that Certified Compliance Report of earlier EC conditions has been submitted by RO, MoEF&CC vide F. No. EC-2556/RON/2024-NGP/3436 dated 12th August, 2024. The RO, MoEF&CC raised serious concerns over compensatory afforestation, Multidisciplinary Committee, non- submission of half yearly compliance report etc. Taking cognizance of these issues, the EAC requested the PP to submit a closure report from the RO, MoEF&CC, addressing the observations/ suggestions provided by the RO, MoEF&CC.
- **25.1.4** The EAC after detailed deliberations deferred the proposal for want of following additional information:
  - 1. PP shall submit the status of the 3.83 Ha of forest land for obtaining Stage-I Forest Clearance (FC), along with all relevant supporting documents.
  - 2. PP shall submit a closure report from the RO, MoEF&CC, addressing the observations/suggestions provided by the RO, MoEF&CC.
  - 3. The concurrence/approval of CWC for hydrology of the present expansion proposal shall be examined and a clarification of CWC in this regard be submitted.
  - 4. The MoU for water usage for the proposed project shall be submitted along with an English-translated copy, duly attested by the PP.
  - 5. PP shall submit detail plan on water utilization for existing project and proposed project.
  - 6. PP shall submit details of land reclamation practices undertaken in the existing project. Based on these practices, a comprehensive plan for implementing land reclamation in the proposed expansion shall also be submitted.

#### Agenda Item No. 25.2

OA No. 71/2020 (SZ) in the matter of Gavinolla Srinivas Vs. UOI and Ors. Hon'ble NGT, Southern Bench, Chennai regarding Rayalasema Lift Scheme of State of Andhra Pradesh. – Compliance of Hon'ble NGT Order

The Member Secretary, EAC informed the committee that the instant court matter is regarding new lift scheme namely "Rayalaseema Lift Scheme" taken up by the State of Andhra Pradesh without obtaining the prior EC. The Applicant has alleged that the State of Andhra Pradesh has started construction in the guise of preparation of DPR even after directions of the Hon'ble Tribunal for not constructing the project without prior environmental clearance.

- 2. The EAC deliberated on the aforementioned issue during the EAC meeting held on 05.11.2024 and 10.01.2025 wherein the EAC suggested following Terms of Reference to ensure that the investigations done for DPR preparation have not resulted in alteration of natural environment and does not encroach the provisions of the EIA Notification, 2006, as amended:
  - a) The Project Proponent must restore the project site to its original condition after completion of field studies for preparation of the DPR. All temporary structures, excavated areas, and any other modifications made during the DPR preparation phase must be reverted to their pre-existing state.
  - b) The Project Proponent before submitting a proposal for grant of EC shall ensure compliance of the following directions:
    - i. A Certificate/ NOC for a limited period stating that activities undertaken by the Project Proponent at proposed project site for DPR preparation are within the ambit of EIA Notification, 2006, as amended be obtained from concerned RO MoEF&CC. This certification/ NOC should be based on a joint inspection conducted by representatives of RO MoEF&CC, CWC, GSI, CSMRS. The concerned RO MoEF&CC would be the Nodal authority in this regard.
  - ii. The joint inspection team must ensure and certify that no environmental damage has been caused by the Project Proponent in the guise of DPR preparation. If, any damage is observed, it must be documented and addressed as per applicable legal and regulatory provisions.
  - iii. The Project Proponent must submit a comprehensive report to the Ministry on the actions taken for site restoration, including photographic evidence, restoration methods, and a timeline of the activities.
- 3. Furthermore, the Terms of Reference suggested by the EAC were then examined by the Ministry and it emerged that, seeking a certificate based on site inspection would add another layer to the EC process and increase the compliance burden and the time taken for grant of EC.

It was felt that the use of technological interventions may be more appropriate. Therefore, it was decided that the matter shall be further deliberated in consultation with sectoral EAC.

#### **EAC Deliberations:**

- 4. The EAC in the current meeting deliberated on the aforementioned issue and agreed with the concern raised by the Ministry. In this regard, it was suggested that the at the time of EC application the PP shall submit an undertaking in the form of an affidavit authorised and duly signed by the competent authority stating that no work has been done beyond the purpose of preparation of DPR along with a comprehensive report to the Ministry on the actions taken for site restoration, including photographic evidence, restoration methods, and a timeline of the activities. Further, if any part of the information and data found to be false or misleading at any stage, he shall be liable for action under the provisions of Water (Prevention and Control of Pollution) Act, 1974; the Air (Prevention and Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986.
- 5. In light of the above, the Committee unanimously recommended the modification of additional Terms of reference suggested vide EAC Meeting dated 10.01.2025.

#### Agenda Item No. 25.3

# Harmonization and Optimization of Environmental Clearance Conditions for River valley and Hydro-electric sector- reg

The Member Secretary of the EAC informed the committee that the Ministry is in the process of harmonizing and optimizing Environmental Clearance conditions for River Valley and Hydro-Electric Projects in consultation with the sectoral EAC. It was further stated that the EAC had previously discussed a similar process during its meeting on 13.08.2024, where the committee made the following observations:

"....After perusal of the document the EAC observed that many conditioned mentioned in the document are not applicable to the River Valley and Hydro-electric Sector. Accordingly, it was recommended that Member Secretary may prepare a comparative chart showing existing environmental conditions and the conditions which have been optimised for the River Valley and Hydro-electric sector. The comparative chart may be shared with the EAC members so that after thorough examination, the same can be finalised in the next meeting of the EAC..."

Accordingly, a draft set of conditions were shared with the EAC. Subsequently, the EAC members provided various suggestions on the conditions, which were discussed in detail during the present meeting.

The Expert Appraisal Committee (EAC) recommended for having a consultation with stakeholder such as MoJS, MoP, EIA consultants, Project Proponents and other subject area experts for addressing the recent environmental/social challenges in developing the River Valley

and Hydro-electric projects in India so that a comprehensive and monitorable environmental safeguard conditions could be framed.

#### **Additional Agenda Item**

Site Visit Report of Sub-Committee of the EAC (River Valley & Hydro-electric) from 24.01.2025 to 26.01.2025 for Proposed Sharavathy Pumped Storage Project of capacity 2000 MW at village Begodi, Tehsil Honavar, District Uttara Kannada, Karnataka

The Member Secretary, EAC informed to the committee that the Ministry of Environment, Forest and Climate Change (MoEF&CC) granted Terms of Reference (ToR) vide letter dated 14.12.2023. The Expert Appraisal Committee (EAC) in its 16<sup>th</sup> meeting held on 27.09.2024 '..... emphasized that, prior to granting environmental clearance or making any recommendations, all pumped storage projects in Western Ghats that have been granted ToR by the Ministry, a site visit shall be carried in'.....

- 2. Accordingly, the Sub-Committee comprising Shri Ajay Kumar Lal, Member, EAC; Dr. Uday Kumar R. Y., Member, EAC; and Dr. Krishnendu Mondal, Scientist D, Representative from MoEF&CC) conducted a site visit to the proposed project from 24<sup>th</sup> to 26<sup>th</sup> January, 2025 with the site inspection carried out on 25<sup>th</sup> January, 2025.
- 3. The EAC deliberated on the observations of the sub-committee report and recommended the following:
- 1. The proposed project involves much less engineering and civil interventions compared to a newly developed Pumped Storage Project (PSP) of similar scale, where both dams and reservoirs would need to be constructed afresh and water sources would have to be identified and tapped. The Sharavathy Project benefits from an existing favorable condition, as both reservoirs, with adequate water availability and storage capacity, are already in place.
- 2. The proposed site is located within a dense forest area, which, while topographically stable and not prone to landslides, falls within the fragile ecosystem of the Western Ghats and is part of an Eco-Sensitive Zone (ESZ). Consequently, the decision to grant of final Environmental Clearance (EC) will heavily depend on the progress/approval of Stage I Forest Clearance.
- 3. As the project is situated within the Eco-Sensitive Zone (ESZ) of the Sharavathy Wildlife Sanctuary, obtaining Wildlife Clearance from the National Board for Wildlife (NBWL) is a prerequisite and must be prioritized.
- 4. According to the project team present at the site, there is no requirement for forest land for submergence, reservoir expansion, or muck dumping, as these activities will be carried out entirely on non-forest land. This claim must be independently verified and confirmed.

- 5. The Project Proponent will explore possibilities and will relook at the total forest land requirement for expansion/widening or construction of approach road. The Committee observedon ground and noted that there was good scope for reducing road width especially at the straight stretches and thereby saving trees/ forest lands. If not feasible or implementable, PP should give good acceptable reasons for the same.
- 6. All conditions and safeguards stipulated in the ToR granted by MoEF&CC (vide File No. J-12011/19/2017-IA.I, dated 14.12.2023, detailed in Annexure 1) must be strictly adhered to and comprehensively implemented.



Site visit Report on Proposed Sharavathy Pumped Storage Project of capacity 2000 MW at village Begodi, Tehsil Honavar, District Uttara Kannada, Karnataka

## **Background**

The Sharavathy Pumped Storage Project is located in the Shimoga and Uttara Kannada districts of Karnataka. The project utilizes the existing reservoirs, with Talakalale serving as the upper reservoir and Gerusoppa as the lower reservoir.

The Ministry of Environment, Forest and Climate Change (MoEF&CC) granted Terms of Reference (ToR) vide letter dated 14.12.2023. The Expert Appraisal Committee (EAC) in its 16<sup>th</sup> meeting held on 27.09.2024 '..... emphasized that, prior to granting environmental clearance or making any recommendations, all pumped storage projects in Western Ghats that have been granted ToR by the Ministry, a site visit shall be carried in '......

#### Site Visit

In compliance with the Office Order dated 22.01.2025 issued by the IA Division of the Ministry of Environment, Forest and Climate Change (MoEF&CC), the Sub-Committee comprising Shri Ajay Kumar Lal, Member, EAC; Dr. Uday Kumar R. Y., Member, EAC; and Dr. Krishnendu Mondal, Scientist D (Representative from MoEF&CC) conducted a site visit to the proposed project from 24 to 26<sup>th</sup> January, 2025, with the site inspection carried out on 25<sup>th</sup> January, 2025.

The EAC team members were accompanied by technical representatives from the Karnataka Power Corporation Limited (KPCL) including:

- Smt.Shilpa D Raj, Superintending Engineer(CD)-1
- Sri.Vijay .V.M, Executive Engineer(C)
- Sri.Umapathi K R, Executive Engineer(C)
- Smt Divya K, Assistant Executive Engineer(C)
- Sri Chandrashekara M Assistant Engineer(C)

During the inspection, the Sub-Committee examined the existing upper and lower dams along with their reservoirs, the proposed penstock path, the powerhouse, the muck dumping site, and



nearby areas likely to experience disturbances and environmental impacts. The inspection covered areas between the two existing reservoirs, namely the Talakalale Reservoir (upper reservoir) and the Gerusoppa Reservoir (lower reservoir for SPSP), situated near the highest waterfalls in India on the Sharavathy River. The assessment was conducted both by road and on foot.

The site visit was attended by authorized representatives of the project proponent, their consultants, local staff, and a few local residents.

#### **General Observations**

#### **Topography**

The proposed project area is situated along the coastal western edge of the Western Ghats, extending in a north-south direction. The terrain is predominantly hilly, characterized by an undulating rocky subsurface primarily composed of granite and basalt, with a thin layer of dominant lateritic and reddish-brown topsoil. The land slopes range from 25–40 degrees, with steeper sections reaching up to 60 degrees. The region experiences an average annual rainfall of approximately 4,080 mm, which is nearly three and a half times the normal precipitation, classifying it as a wet region. The Sharavathy River is the primary watercourse traversing the area.

#### Vegetative Cover

The area supports one of the densest forest regions in Karnataka, with moderate to very dense forests exhibiting a canopy density of approximately 0.7 to 0.8. The predominant forest types include:

- West Coast Semi-Evergreen Forest
- Southern Moist Mixed Deciduous Forest
- Patches of Laterite Semi-Evergreen Forest

Dominant tree species observed in the region include *Terminalia paniculata*, *Dipterocarpus serratus*, *Tectona grandis*, *Syzygium cuminii*, and *Anogeissus latifolia*. The key Non-Timber Forest Products (NTFPs) identified in the area include *Cinnamomum* spp., *Cymbopogon citratus* (lemongrass), pepper, cardamom, cinnamon, mango, and jackfruit.

#### Fauna

Existing records indicate that the area is rich in faunal diversity and is particularly notable for the rare presence of the Lion-Tailed Macaque. Other significant wildlife species recorded in the region include: Mammals: Leopard, Lion-Tailed Macaque, Mouse Deer, Sambar Deer

Reptiles: King Cobra

Due to the limitations of a single-day site visit, a comprehensive firsthand assessment of faunal diversity was not feasible. No direct evidence of large mammals or big cats was observed during the visit. However, available documents and certificates pertaining to their presence, movement, or habitat corridors will provide further insights. Local residents present during the visit confirmed the presence and movement of these species in the area.

#### **Human Settlement and Habitation**

As the area predominantly comprises reserved forest land and is located in the interior, human settlements are minimal. The number of villages directly affected by the project is limited to four, with only four project-displaced families. In total, approximately 130 families will be impacted within the project area. Given the relatively low displacement, rehabilitation and resettlement (R&R) concerns are not expected to be significant.

#### **Specific Observations and Recommendations**

- The proposed project involves much less engineering and civil interventions compared
  to a newly developed Pumped Storage Project (PSP) of similar scale, where both dams
  and reservoirs would need to be constructed afresh and water sources would have to be
  identified and tapped. The Sharavathy Project benefits from an existing favorable
  condition, as both reservoirs, with adequate water availability and storage capacity, are
  already in place.
- 2. The proposed site is located within a dense forest area, which, while topographically stable and not prone to landslides, falls within the fragile ecosystem of the Western Ghats and is part of an Eco-Sensitive Zone (ESZ). Consequently, the decision to grant of final Environmental Clearance (EC) will heavily depend on the progress/approval of Stage I Forest Clearance.
- 3. As the project is situated within the Eco-Sensitive Zone (ESZ) of the Sharavathy Wildlife Sanctuary, obtaining Wildlife Clearance from the National Board for Wildlife (NBWL) is a prerequisite and must be prioritized.
- 4. According to the project team present at the site, there is no requirement for forest land for submergence, reservoir expansion, or muck dumping, as these activities will be carried out entirely on non-forest land. This claim must be independently verified and confirmed.

- 5. The Project Proponent will explore possibilities and will relook at the total forest land requirement for expansion/widening or construction of approach road. The Committee observedon ground and noted that there was good scope for reducing road width especially at the straight stretches and thereby saving trees/ forest lands. If not feasible or implementable, PP should give good acceptable reasons for the same.
- All conditions and safeguards stipulated in the ToR granted by MoEF&CC (vide File No. J-12011/19/2017-IA.I, dated 14.12.2023, detailed in Annexure 1) must be strictly adhered to and comprehensively implemented.

# Site Visit Photographs



**Mat Entrance Area** 







Gerusoppa Dam Top – TRT Outfall Area





Talakalae Reservoir – Psp Intake Area



Near U/S Surge Tank

Signature of members

Monday

Shri Ajay Kumar Lal, Member, EAC

Dr. Uday Kumar R. Y., Member, EAC

Dr. Krishnendu Mondal MoEFCC Representative

# **ANNEXURE**

# **ATTENDANCE**

S. No.	Name of Member	Role
1.	Prof. Govind Chakrapani	Chairman
2.	Dr. Uday Kumar R Y	Member
3.	DR. J. V. Tyagi	Member
4.	Shri Kartik Sapre	Member
5.	Shri Ajay Kumar Lal	Member
6.	Shri Rajeev Varshney	Member
	.VC	Representative of Central
	6-1610	Electricity Authority (CEA)
7.	Shri Balram Kumar	Member
		Representative of Central Water
		Commission (CWC)
8.	Dr. A.K. Sahoo	Member
	N 240	Representative of CIFRI
	T D THE REGIST	72 Tu
9.	Shri Yogendra Pal Singh	Member Secretary



## **Approval of the Chairman**

## Re: Draft MOM of the EAC (RVHEP) meeting held on 28.02.2024-reg.

CG Chakrapani GovindaJoseph <govind.chakrapani@es.iitr.ac.in>

Tue, 11 Mar 2025 3:38:28 PM +0530 •

To "Yogendra Pal Singh" < yogendra 78@nic.in>
Reading 2 / 2

Approved. Chakrapani

On 11-Mar-2025 15:19, Yogendra Pal Singh < yogendra78@nic.in > wrote:

Dear Sir,

The draft MOM of the EAC (RVHEP) was circulated amongst EAC members, no comments received so far. The corrections suggested by you have been incorporated suitably. Accordingly, the draft MOM is attached herewith for approval please.

With Regards,

Yogendra Pal Singh Scientist 'F' Government of India M/o Environment, Forest and Climate Change Room No. 236, 2nd Floor, Vayu Wing Indira Paryavaran Bhawan Jor Bagh, New Delhi-110003 Tele-fax: 011-20819364

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