

Justification

Name of Proposal: - Diversion of forest land for laying of underground gravity water 50 mm to 1600 mm dia P.C.C. P. / B. W. S. E/ H.D. P. E. type pipeline for Agricultural use from Urmodi Maan Irrigation Project in drought prone villages in Tal. Maan , Dist, Satara , Pipeline passing through Forest land in charge of Satara Forest Department in Satara Dist.

Project Details:

Urmodi big project or scheme in Satara district was constructed as mud Dam. It is tributary of Krishna River Under the same project, about 5 km south of Urmodi Dam. off socks Ambale (Dist-Satara) near the Nala Karahina Ambale earthen dam (complementary reservoir) make is proposed

The project I is under Maharashtra Krishna Valley Development Corporation, Pune, under the " rest of Maharashtra Region " The Urmodi Irrigation Project contemplated to provide irrigation facility to the command area of 83000 ha in Satara Taluka, and 9725 ha each of Khatav And Maan Taluka which is a drought prone area. Total 27750 ha. In Satara Dist. Will b benefited through flow of and lift irrigation. As major of project falls under drought prone area of Satara Dist. So this Project is included under Central Govt." **BALIRAJA JALSANJIVANI SCHEME"**

Details of Government Approval :

The details of the original administrative approval of the Urmodi large project and the revised administrative approval so far are as follows.

A. No .	AA/RA A Proposal	Details of Approval	DSR Year	Amount (Rs . Crore)	Irrigation Area (H.) (ICA)	Useful water storage of the dam (Dalghami)
1	Original AA	Govt. Resolution No. URM / 1081 / 231(2350) AIR (I) , dt. 25.6.1981	Nor Availabl e	10.86	6040	Urmodi 273,273
2	New A A	Govt. Resolution No. URM / 1089 /(132/89) WRA Dt. 6.10.93	1990	212.07	27800	Urmodi 273,273

2	First Revised A A	Maharashtra Krishna Valley Development Corporation decision no. MKVDC / UP / 297 / (850/97) / RAA / MP5 / 7851, dt. 03/10/2002	2000-01	867.77	27750	Urmodi 273,273
3	Second R A A .	Govt. Resolution No.RAA - Urmodi/1209/ (662 /09) MP -1 Dt. 02/11/2010	2008-09	1324.14	27750	Urmodi 281 .555 Ambles - 8.282 Total=281.555
5	Third RAA.	Proposed	WRD- 2018-19, PWD 19-20 MJP 2019,20	24 93.53	27750	Urmodi 281 .555 Ambles - 8.282 Total=281.555

Status of Forest clearance from Forest Department :

Approval under FCA for Urmodi Dam and main canal has been taken by the irrigation dept.

Urmodi Dam: -A total of 19.88 ha of forest land is required for Urmodi Dam. & Canal work and after sanction under FCA 1980 from Central Govt, Dy. Conservator of forest s Satara has has given approval to handed over the forest land by letter dt 27/09/2005 . .

This Scheme was earlier approved by the Govt. of Maharashtra as a medium project in 1981 . However, to utilize the ultimate available water resources at dam site and supply it to drought prone area of Khatav and Maan taluka of Satara Dist. It was decided to change the scope of the project and converted in to major project and for the Newly administrative approval granted to this project

- Also regarding PDN, S.N.D. Issue No. 13.01.2017 According to Article 2 , the proposal for the pipeline distribution system should be approved by the competent authority. The pipeline design and concept should be approved. After checking the financial feasibility of the proposal, they should approve the proposal.
- Details of closed ducts and distribution system: It is mentioned that the details mentioned in this regard are based on detailed survey. This area should be confirmed before the technical approval.
- As per the order approved by the Corporation Office, the proposal to carry out the work for Urmodi right canal km 11 to 35 through closed pipeline was mentioned in the order of

- The Chief Engineer should check whether the proposal to make the distribution system on the Maan canal through closed pipelines has been approved by the Corporation Office as it changes the alignment while doing PDN and should be approved at the competent level.

- As proposed project is supply of water through gravity pipeline needs different size from 50 mm to 1600 mm dia. P.C.C. P. / B. W. S. E/ H.D. P. E. type pipeline. So detailed contour survey has been done and it is observed that the underground pipeline will be passing through 25 forest patches in 8 villages the detailed forest area required as per below.

S n.	Village	Forest land Required						Non-forest land required			Total Area Require d				
		Gut no	Comp no	L X W in Mt	Area in Ha	Village area	St at us	G no	L X W in Mt	Area in Ha					
1	Mhaswad P1	192	852	1090 x20 2345 x10	2.180 2.345	10.516	R F	No of G no more	67634x 11.20	75.750	86.266				
	P2 P3 P4 P5	304		2130x10	2.130										
				621x10	0.621										
				1020 x20	2.040										
		297		1200x 10	1.200										
2	Waki P6	145	861	1648x 15	2.472	3.480		No of G no more	20208 x11.20	22.633	26.113				
	P7			540 x1o	0.540										
	P8			468 x10	0.468										
3	Valai P 9	552	854	490x10	0.490	4.034						No of G no more	12927x11.20	14.478	18.512
	P-10			2544 x10	2.544										
	P -11			220x 10	0.220										
	P- 12			780x10	0.780										
4	Dhamni P-13	262	861	1100 x20	2.200	4.945	No of G no more	18301 x11.20	20.497	25.442					
	P-14	299		500 x20	1.000										
	P 15	319		260x20	0.520										
	P-16	261		1225 x 10	1.225										

5	Pipari P-17	268	861	581x10	0.581	1.505		No of G no more	16333 x11.20	18.293	19.798
	P 18	268		452 x10	0.452						
	P19	379		422 x10	0.422						
	P 20	379		50 x 10	0.050						
6	Lodhawade P-21	238	—	690 x10	0.690	1.725		No of G no more	2890x 11.20	3.237	4.962
	P 22	238		853 x10	0.853						
	P-23	402		182x10	0.182						
7	Gondawale Kh P24	930	864	1310 x10	1.310	1.310		Maany G no	1172 x11.20	1.313	2.623
8	Gondawale BK P25	1190	864	782 x10	0.782	0.782		Maany G no	17056 x11.20	19.103	19.885
9	Gotewadi	0	0	0	0	0		Maany G no	14477 x 10.90	15.780	15.780
10	Dhakani	0	0	0	0	0	0	No of G no more	28695 x11	31.565	31.565
11	Diwad	0	0	0	0	0	0	No of G no more	55344 x 10.10	55.898	55.898
12	Palashi	0	0	0	0	0	0	No of G no more	30023 x12.70	38.129	38.129
13	Maankwad i	0	0	0	0	0	0	No of G no more	4367x 3.10	1.354	1.354
14	Didwakwadi	0	0	0	0	0	0	No of G no more	10868 x 11.50	12.499	12.499
15	vadjal	0	0	0	0	0	0	No of G no more	11974 x10.10	12.094	12.094
16	Panwan	0	0	0	0	0	0	No of G no more	23789x 12.70	30.212	30.212
17	Gangoti	0	0	0	0	0	0	Maany G no	16166 12.35	19.965	19.965
18	Kukudwad	0	0	0	0	0	0	Maany G no	246 x10	0.246	0.246
19	Naravane	0	0	0	0	0	0	Maany G no	20757 x 10.80	22.418	22.418
20	Kalewadi	0	0	0	0	0	0	Maany G no	3054x 12.70	3.879	3.879
21	Kirakasal	0	0	0	0	0	0	Maany G no	4439.5 x20	8.923	8.923
	Grand Total Forest					28.297		G.T Non -forest		428.266	456.563

For laying underground different dia. Pipeline digging of trench width will be approx. One and half time of wide with dia. of pipeline & depth is as per level for easy flow of gravity water. The material dogged out will be place one side of trench and to carry the heavy pipe needs about 6 to 9 mt wide carriage way for carry and fitting. Pipe by Crain so the width required for laying underground width of forest land required is varying 10 mt to 20 me wide. After completion of laying pipeline, the trench will be refilled again. As per need stop valve, sluice valve, Scour valve, pressure relief valve and air volve will be fitted to pipelines as per requirement.

Taluka wise Irrigation Area: -

Out of the total irrigation area on the project is **27750** ha. The 9725 ha area of Maan taluka is as per details below is .

District	Taluka	Canal	Sincanaksetra (ICA) (this .)
Satara	Maan	Maan canal	9725
Total			27750

Crop composition approved by the Department of Agriculture :

On According to the letter dated 19/11/1981 from the Directorate of Agriculture, State of Maharashtra, Pune, the Directorate of Agriculture has the authority to approve the design of large projects. Urmodi administrative Maanyateveli original project dated 21/04/1992 on Regional Joint Director of Agriculture, Department of Pune's letter Urmodi Major major project has been approved revenue generation the same crop pattern proposed had second improved

Approval of Central Water Commission:

Urmodi large project of Central Water Commission dt. Approved by letter dated 21/01/2011 .
This has been mentioned by the Regional Chief Engineer.

Technical Approval of estimate

Sr no	Type of branch	Estimated cost in Lakhs	T.S no	As per estimate Irrigation potential
1	PDN works Palsdhi branch	4662.07	Reg no 2 for year 2020-21	2805 ha
2	PDN Minor branches	3068.71	Reg no 4 for year 2020-21	2697.60 ha
3	PDN Vadjal Branch	5106.68	Reg no 1 for year 2020-21	2610. ha
4	PDN work of Minor	3653.14	Reg no 2 for year 2020-21	3166.44 ha.

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There is no alternative other than proposed alignment, & the required forest land for laying underground gravity water supply pipeline for irrigation to villages in Maan taluka's. Satara. is barest minimum. This work will be done as per F.C. guidelines issued by the MoEF. Hence proposed proposal is site specific and as per F.C.A guideline

Project Authority has not started work of laying underground pipeline in forest area. User Agency will start work of laying underground water pipeline after sanction from State Govt. Hence this proposal is submitted for sanction under F.C.A 1980

Place - Satara

Date - 01/06/2022


(Amar Kashid)
Executive Engineer
Urmodi Dam project Satara