

GOVERNMENT OF ODISHA



DEPARTMENT OF WATER RESOURCES

**ANNUAL REPORT
FOR THE YEAR – 2016-17**

OF

UPPER INDRAVATI RIGHT CANAL DIVISION NO.I,
AT/PO-MUKHIGUDA, DIST. KALAHANDI, ODISHA,
PIN-766026.

11.05.2017.

**ANNUAL REPORT OF UPPER INDRAVATI RIGHT CANAL DIVISION NO.I,
MUKHIGUDA, KALAHANDI, ODISHA
FOR THE YEAR 2016-17**

1. HISTORY OF THE DIVISION:

The Division was created on 01.03.1987 with an aim to execute the construction and maintenance of the Upper Indravati Right Canal System under Upper Indravati Irrigation Project. Till date 13 nos of Executive Engineers have worked sincerely and providing irrigation in Khariff and Rabi seasons. The financial back ground of the local farmers of Jaipatna, Kalampur and Junagarh Blocks of Kalahandi District have been uplifted due to increase of crop productivity. Due to active participation of 53 nos. of Pani Panchayats, the system could supply irrigation to 25,116 Ha. of its ayacut during 2016 Khariff and it is programmed to provide Khariff water 2017 to a record area of 25,846 Ha. Out of lost ayacut of 1963 Ha. 730 Ha. shall be added during Khariff 2017 totaling to 25846 Ha. The year-wise Khariff and Rabi area covered are enlisted below.

Sl. No.	Year	Khariff in Ha.		Rabi in Ha.		Remarks
		Proposed	Achieved	Proposed	Achieved	
1	2	3	4	5	6	7
01	2017-18	25846				Programmed
02	2016-17	25116	25116	23012	23012	
03	2015-16	24750	24750	3,400	3400	Rabi closure for CLSRP work.
04	2014-15	24123	24123	22393	22393	
05	2013-14	24123	24123	18648	18648	
06	2012-13	24123	24123	18648	18648	
07	2011-12	23708	23708	3079	3217	
08	2010-11	23703	23703	9244	9244	
09	2009-09	23703	23703	17844	17844	
10	2008-09	22306	22306	17844	17844	
11	2007-08	22306	22306	13073	13073	
12	2006-07	16727	16727	12848	12848	
13	2005-06	16336	16336	12814	12814	
14	2004-05	16336	16336	12243	12243	
15	2003-04	16327	16327	11543	9970	
16	2002-03	16327	16327	3120	2667	
17	2001-02	16327	16327	11305	11305	
18	2000-01	15925	15925	--	--	
19	1999-2000	10855	10855	8200	8200	

2. LENGTH OF CANALS:

Name	Sub-Divn. No.I	Sub-Divn. No. IV	Sub-Divn. No.II	Sub-Divn. No.III	Total
Jurisdiction RD to RD	00 to 21.432	21.432 to 41.100	41.100 to 61.066	61.066 to 83.706	00 to 83.706
Main Canal	21432	19668	19966	22640	83706
Distributary	0	0	7170	21135	28305
Minor	10350	28425	44955	39355	123085
Sub-Minor	44900	58700	64975	59535	228110
Total:	76682	106793	137066	142665	463206

3. STRUCTURES :

Sl.No.	Name of structure	RMC	Distributary	Minor & Sub-Minor	Total
01	H.R	69	22	90	181
02	CD	174	58	711	943
03	Fall	2	32	1132	1166
04	VRB	65	37	595	697
05	Fall-cum-VRB	--	--	54	54
06	Aqueduct	7	1	5	13
07	Escape	7	--	--	7
08	C.R	9	--	--	9
09	Super Passage	14	1	--	15
10	Inlet	15	--	--	15
11	P.D	--	--	5	5
12	Out let	85	71	1369	1525
	TOTAL:	447	222	3961	4630

4. POSITION OF CANAL: DISTRIBUTARY

Name	Wall/ Slope lined up to 14-15	Taken up during 15-16	Achievement in 16-17	Programme for 17-18	Stable canal length	Length required to be lined.	Total
Sub-Divn. No.I	0	0	0	0	0	0	0
Sub-Divn. No. IV	0	0	0	0	0	0	0
Sub-Divn. No.II	1740	500	4030	0	900	0	7170
Sub-Divn. No.III	6385	860	6632	2015	2230	3013	21135
TOTAL:	8125	1360	10662	2015	3130	3013	28305

5. POSITION OF CANAL: MINOR

Name	Wall/ Slope lined up to 14-15	Take up during 15-16	Achievement in 16-17	Programme for 17-18	Stable canal length	Length required to be lined.	Total
Sub-Divn. No.I	3050	671	1251	250	2590	2538	10350
Sub-Divn. No. IV	2400	1287	270	4930	15473	4065	28425
Sub-Divn. No.II	13785	2280	3630	1002	13093	11165	44955
Sub-Divn. No.III	10239	1854	14340	5285	3050	4587	39355
TOTAL:	29474	6092	19491	11467	34206	22355	123085

6. POSITION OF CANAL : SUB-MINOR

Name	Wall/ Slope lined up to 14-15	Take up during 15-16	Achievement in 16-17	Programme for 17-18	Stable canal length	Length required to be lined.	Total
Sub-Divn. No.I	20545	2252	1739	1350	8980	10034	44900
Sub-Divn. No. IV	1820	1946	3390	10471	32355	8718	58700
Sub-Divn. No.II	14525	6730	2716	1980	18574	20450	64975
Sub-Divn. No.III	10680	5610	18223	6188	7525	11309	59535
TOTAL:	47570	16538	26068	19989	67434	50511	228110

7. POSITION OF STRUCTURE : DISTRIBUTARY

Name	No. of structures renovated up to 14-15	Taken up during 15-16	Achievement in 16-17	Programme for 17-18	Stable structures	Nos required to be renovated.	Total
Sub-Divn. No.I	0	0	0	0	0	0	0
Sub-Divn. No. IV	0	0	0	0	0	0	0
Sub-Divn. No.II	25	10	32	16	38	0	121
Sub-Divn. No.III	42	5	33	21	16	25	139
TOTAL:	67	15	65	37	54	25	260

8. POSITION OF STRUCTURE : MINOR

Name	No. of structures renovated up to 14-15	Taken up during 15-16	Achievement in 16-17	Programme for 17-18	Stable structures	Nos required to be renovated.	Total
Sub-Divn. No.I	0	7	3	0	72	20	102
Sub-Divn. No. IV	7	3	0	1	254	43	308
Sub-Divn. No.II	86	33	24	18	178	148	487
Sub-Divn. No.III	160	22	40	60	55	65	402
TOTAL:	253	65	67	79	559	276	1299

9. POSITION OF STRUCTURE : SUB-MINOR

Name	No. of structures renovated up to 14-15	Taken up during 15-16	Achievement in 16-17	Programme for 17-18	Stable structures	Nos required to be renovated.	Total
Sub-Divn. No.I.	4	17	8	8	203	53	293
Sub-Divn. No. IV.	10	38	5	10	790	190	1043
Sub-Divn. No.II.	187	66	2	64	182	251	752
Sub-Divn. No.III.	280	35	70	95	170	190	840
TOTAL:	481	156	85	177	1345	684	2928

10. Hydraulic particulars of RMC

Particulars	Unit	00-21.432	21.432 – 38.907	38.907- 53.746	53.746 – 61.066	61.066- 66.151	66.151- 76.996	76.996- 83.026
Discharge	Cumecs	50	45	40	35	30	25.00	20
Bed width	M	21.60	19.74	18.20	16.10	13.90	13.688	12.094
FSD	M	2.40	2.37	2.31	2.31	2.31	2.027	1.892
Velocity	M/Sec	0.910	0.908	0.895	0.882	0.864	0.839	0.811
Water slope	Per 1000m	0.165	0.168	0.171	0.175	0.180	0.185	0.192
F.B	M	0.900						
Bank width L/R	M	6.50/ 3.50						

11. Block/ Tahasil/Constituency -wise Irrigation Potential created & utilized

Sl. No.	Name of the Block/Tahasil	No. of Villages	Irrigation potential in Ha.		
			Designed	Created	Achieved
1	JAIPATNA	14	3200.610	3200.610	3200.610
2	KALAMPUR	26	5472.600	5472.600	5472.600
3	JUNAGARH	96	18521.740	17647.79	16443.200
	TOTAL:	136	27,195.00	26,321.00	25,116.410

12. Irrigation Sub-Division (RCD-1)-wise ayacut in Ha.

Sl.No.	Name of the Sub-Divn.	No. of Villages	Irrigation potential in Ha.		
			Designed	Created	Achieved
1	UI RC SUB-DN.I	16	3200.61	3200.61	3200.61
2	UI RC SUB-DN.II	39	8978.00	8821.13	8687.52
3	UI RC SUB-DN.III	52	8999.92	8282.84	7211.86
4	UI RC SUB-DN.IV	29	6016.42	6016.42	6016.42
		136	27,195.00	26,321.00	25,116.41

13. Road statistics.

RMC RD	Main Canal				Distributary				Minor & Sub-Minor			
	Earthen	WBM	BT	Total	Earthen	WBM	BT	Total	Earthen	WBM	BT	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
00 to 22000 m	0	18300	3700	22000	0	0	0	0	1100	6820	0	7920
22000 to 45000 m	0	22100	900	23000	0	0	0	0	3050	700	0	3750
45000 to 61000 m	0	10300	5700	16000		4170	3000	7170	17705	0	0	17705
61000 to 83690 m	1690	18200	2800	22690	15760	3185	0	18945	5515	7410	0	12925
TOTAL:	1690	68900	13100	83690	15760	7355	3000	26115	27370	14930	0	42300

It is proposed to hand over the road on the left inspection bank of Right Main Canal to RD Department from RD-00 to 83.706 Km. for construction of road in PMGSY standard.

14. Pani Panchayat:

During 2006-07, 53 nos of Pani Panchayats and 4 nos of Distributary Committee were formed with the help of WALMI, Odisha and election completed during 2006-08 . As per new amendment in Pani Panchayat Act and Rules 2008, fresh elections were conducted and completed during 2013-14. The grant-in-aid of the Pani Panchayats has been received up to 2012-13. Further allotment has not been received. Best Pani Panchayat of the project award has been received since 2012-13 continuously by the division.

Sl. No.		Total nos	2006-08	2013-14
01	No. of P.P formed	53	53	53
02	No. of Disty. Committee formed	04	04	04
03	No. of Villages covered.	136	136	136

15. MGNREGS:

Year	No. of proposals submitted	Amount in lakhs.	No. of projects financially sanctioned	Amount in lakhs.	No. of proposals executed.	Amount in lakhs.	Submission reference to Collector, Kld.
2016-17(A)	108	81.90	55	54.70	Under progress	54.70	2302/ 25.5.16
2016-17(B)	125	105.58					2486/ 16.08.16
2017-18	153	524.50					460/ 10.03.17

The financial sanction of the project proposals under MGNREGS for the year 2016-17 have been approved by the Collector, Kalahandi vide DRDA, Kalahandi Lr.No.2302, Dt-25.05.16. The rest proposals are under scrutiny and sanction by the DRDA, Kalahandi.

Mainly, desilting and cutting of bushes in minors and sub-minors of the Right Canal System are included in the proposals.

16. LOST AYACUT:

Year	Irr. potential utilised	Increase in Irr. Potential in Ha	Achieved during
2011-12	23,708	415	Khariff 2012
2012-13	24,123	-	-
2013-14	24,123	-	-
2014-15	24,750	627/627	Khariff 2015
2015-16	25,116	366/366	Khariff 2016
2016-17	25,796	680/730	Khariff 2017
2017-18	26,516	720	PROPOSED 2018
2018-19	27,195	679	PROPOSED 2019

17. CREATION OF ADDITIONAL AYACUT:

The proposal for creation of additional ayacut area of 4336 has been considered and The Chairman-cum Superintending Engineer ,UIC,Mukhiguda has moved the Lift irrigation and Minor Irrigation Wing to take up the detailed survey and investigation work of the proposed area for preparation of DPR at the earliest. The area mainly available on the right side of the right main canal under Jaipatna, Kalampur and Junagarh Blocks due to non-existence of canals as the area is situated on higher level.

18. POSITION OF ESTIMATE:

	2015-16		2016-17		2017-18	
	Nos.	Amount	Nos.	Amount	Nos.	Amount
Non-Plan (M)	36	266.07	04	120.47		
Non-Plan (SR)	10	271.01	03	76.41		
Non-Plan (Critical)	21	610.01	25	781.07	18	699.76
Non-Plan (Roads)	01	69.03	03	104.17	5	175.00
Maintenance (Road)	03	91.96	01	25.29	1	25.00
Building (Res)	03	6.21	0	0	3	5.00
Building(Non- Res	03	3.38	0	0	2	5.00
ERM	0	0	12	3216.71		

19. GATE WORKS:

The works in connection with head regulator gates of the Right Canal System are being executed by the Mechanical Division, Hirakud. The entire allotment received on the sub-head is being deposited by the Chief Engineer and Basin Manager, Indravati Kolab Basin, Khatiguda, Nabarangpur.

20. TENDER POSITION :**Rs. in Lakhs.**

Item	Nos.	Amount	Remarks
No. of tender notice	7	1438.00	1 notice for 12 nos of ERM works invited by the CCE, UIIP, Mukhiguda
No. of works	42	1438.00	
No. of Agt. drawn	54	3933.00	
No. of works completed.	34	2309.00	
No. of EOT sanctioned	0		Works completed in time

21. ALLOTMENT AND EXPENDITURE: 2016-17**Rs. in Lakh.**

Sub-Head	Annual allotment received	Revised allotment received	Re-appropriation amount received	Total	Expenditure	%
Non-Plan (M)	120	--	--	120	120	100
Non-Plan (SR)	110	--	--	110	110	100
Non-Plan (Critical)	530	--	--	530	530	100
Roads & Bridges	105	--	--	105	105	100
Maintenance Road	30	--	--	30	30	100
ERM	800	1085	--	1085	1085	100

22. WORKS UNDER CLSRP:

05. (A) CLSRP (Renovation and restoration of Upper Indravati Right Main Canal)

- a. TAC approval: 81st TAC dated-16.08.13. {EIC No.2431(WE) dt. 23.08.13]
 - b. Visit of HLTC: 18.02.2014. {EIC No.2943(WE) dt. 21.02.14]
 - c. Administrative approval: Rs.322.74 Crore vide Lr.no.DOWR.Irr.I.WB-18/2014-6149/WR dt.17.03.15.
 - d. Estimate sanctioned by CE UIIP for Rs.3,25,85,37,100/- vide No. CE, UIIP-01/14-15 dt.29.04.14.
 - e. Tender Schedule approved by CE, UIIP for Rs.3,19,54,55,168/- dt. 18.03.15.
 - f. E-procurement notice no.ceuiip-02/2014-15 dt-19.05.14 & 3/2014-15, dt-18.03.15.
 - g. Bid availability on 08.04.15 to 21.08.15.
 - h. Opening of Technical Bid- 16.09.2015 (BBSR)
 - i. Number of bidders participated - 6 nos.
 - j. Technical bid submitted to the Govt. (DoWR) vide CE, UIIP Lr.No.7515/WE dt-14.10.2015.
 - k. Financial bid opened on 21.11.2015 and submitted to Govt. vide CE, UIIP Lr.no.8152(WE) Dt-21.11.2015.
 - l. L1 bidder, IVRCL Ltd. for Rs. 302.99 crores (-) 5.18%
 - m. Foundation stone of the work laid by Hon'ble C.M, Odisha on 18.02.2016.
 - n. Tender cancelled vide DoWR Lr.No.11621 (WE), Dt-18.05.2016.
 - o. Proposal to Govt. for dividing into four reaches submitted vide CE, UIIP Lr.4022(WE), Dt-20.05.2016.
 - p. Proposal to Government for splitting up into two reaches vide CE & BM, Indravati Kolab Basin, Khatiguda letter No. 817 dated- 05.10.2016
 - q. Approval of splitting up into two reaches vide DOWR letter No. IIT-UIP-7/2015 No.24695/WR, dated- 22.10.2016.
 - r. Tender invited for two packages vide e-proc notice no 01/2016-17 Dated 10.11.2016 of CE & BM, IKB, Pre-bid 30.11.2016, Last date of bid submission 17.01.2017.
- A. Renovation and restoration of Upper Indravati Right Main Canal from RD 00 to 41.10 km-Rs.161.35 crores
- B. - do - RD 41.10 to 83.706 km-Rs.171.10 crores
- Bidding Period : 18.11.16 to 17.01.2017
- Date of technical bid opening : 24.01.17.
- s. Technical bids of both the works submitted to Government in DOWR vide CE&BM, IKB Lr.No.713 and 717 Dt- 10.02.2017.

23. BOTTLENECKS:

Due to non-execution of CLSRP work of Right Main Canal, various obstacles such as; entry of unwanted silt in to the canal from the hillocks, failure of banks due to un-controlled rain water in to the canal, deposit of heavy silt and debris on the bed of the canal, Khariff water supply to the command area becomes difficult day-by day. The water carrying capacity of

the main canal is being reduced year after year. Water demand at the tail end i.e. in Junagarh area is increasing due short supply. During peak demand period the main canal is not capable to carry more than 27 cumecs of water because of non removal of 54,284 cum of Hard Rock at the bed and non maintenance of design section of the Main Canal. A good numbers of R R Stone Masonry structures on the main canal are in a dilapidated condition which need renovation/replacement by concrete structures. Around 8 nos of such structures on RMC have been renovated out of Non-Plan grant and functioning smoothly.

Due to over growth of ipomoea plants in the bed and slope of the main canal the velocity of water decreases and affects the water supply seriously.

Due to peculiar nature of black cotton soil of the entire command area the system needs lining of minors and sub-minors which is being taken up during 2016-17 and 2017-18 out of ERM grant. Tail end farmers are suffering due to non-lining of the small canals.

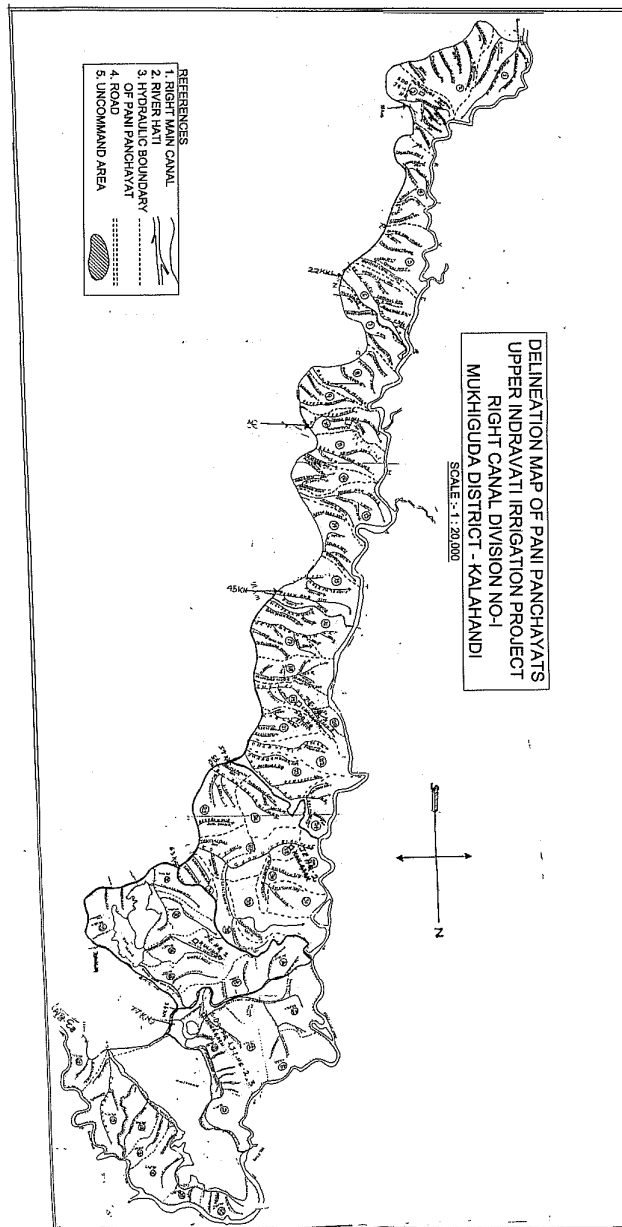
24. Staff position.

Sl. No.	Name of post	Sanctioned strength	In position	Vacancy	Remarks.
01	Executive Engineer (C)	1	1	--	
02	Dy. Executive Engineer	1	--	1	
03	Asst. Executive Engineer	4	3	1	
04	Assistant Engineer	5	5	--	
05	Junior Engineer	8	4	4	
06	Divnl. Accountant	1	--	1	
07	Head Clerk	1	1	--	
08	Senior Clerk	2	2	--	
09	Junior Clerk	8	5	3	
10	Stenographer	1	--	1	
11	Draughtsman	1	1	--	
12	Tracer	1	1	--	
13	Ferroprinter	1	1	--	
14	Peon	7	7	--	
15	Watchman	5	5	--	
16	Daftary	1	1	--	
17	Contingent Khalashi	21	21	--	
18	Wages Regular	51	41	10	
19	Work Charged	23	21	2	
20	NMR	24	24	--	Continue by virtue of Court order

25. ACHIEVEMENT:

We have achieved lost ayacut of 730 Ha. during the year under report and programmed for achievement of balance lost ayacut as detailed below. Due to successful execution of 12 nos of ERM works the lost ayacut could be achieved and balance shall be achieved during 2017-18.

26. AYACUT MAP:



27. AUDIT:

The works and establishment records were successfully audited by the office of the Superintending Engineer, U.I.Irrigation Circle, Mukhiguda and the office of the Chief Engineer, U.I.Irrigation Project, Khatiguda.

28. INSPECTION OF WORKS BY SQM

During the month of April, 2017 the State Quality Monitor Shri T.B.Das has inspected all 12 nos of ongoing ERM works and 2 nos of maintenance works and has certified satisfactory quality and maintenance of records in the ongoing works.

Executive Engineer
UI Right Canal Divn.No.1
Mukhiguda:Kalahandi