



**GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES**

**HEALTH STATUS OF EMBANKMENTS
(C.E. / T.R.E. / O.A.E. / S.E.)**

NAME OF DIVISION:-NIMAPARA IRRIGATION DIVISION, NIMAPARA

**FOR THE YEAR 2022 DULY SIGNED BY
THE COLLECTOR & DISTRICT MAGISTRATE, KHORDA & PURI**

**SUPERINTENDING ENGINEER
NIMAPARA IRRIGATION DIVISION
NIMAPARA**

**STATUS OF CAPITAL EMBANKMENT, O.A.E., T.R.E. & SALINE EMBANKMENTS
UNDER NIMAPARA IRRIGATION DIVISION, NIMAPARA**

SI No.	Name of District	Type & Length of Embankment in Km				
		C.E.	O.A.E	T.R.E.	S.E.	Total
1	Khorda	55.00	7.00			62.00
2	Puri	108.30	36.00	26.28	91.04	261.62
3	Cuttack	4.00				4.00
4	Jagatsinghpur	1.00				1.00
	Total	168.30	43.00	26.28	91.04	328.62


 SUPERINTENDING ENGINEER
 NIMAPARA IRRIGATION DIVISION
 NIMAPARA

**DETAIL STATUS OF THE EXISTING RIVER / SALINE EMBANKMENTS (submitted as on 31.03.2022)
(UNDER KHORDA DISTRICT)**

Sl. No.	Name of the Embankment	Category of the Embankment				Length in Km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)			Spur in Nos. with location	Brief description about deficiency in parameters	
		C.E.	O.A.E.	T.R.E.	S.E.						TBL "m"	Side slope	Top Width "m"			Reverment packings (in m) with location
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Kuakhai left Embankment from RD 00 to 11.00km	11.00				11.00	Mahanadi Basin	Kuakhai	Khordha	RD 00 to 11.00 km.	20.595/ 17.75	2:1	7.00	Packing (RD 00 to 0.45km, 2910 m to 0.80, 1.07 to 1.33, 2.90-3.70, 7.90-8.50, 10.40 -11.00km)	10nos (within RD 3.69 to 4.23 km)	Design parameter - TBL-17.75 mtr, Top width 5.00 mtr.
2-1	Bhargabi left Embankment from RD 00 to 11.00 km	11.00				11.00	Mahanadi Basin	Bhargabi	Khordha	RD 0-2.20km	17.75 to 17.00	2:1	4.00	Packing (RD 0 to 1.260 km.)	Nil	Existing CC Road from 00 to 0.900km. Design parameter TBL -18.300m
										RD 2.20-11.00 km	17.00/ 15.63	2:1	4.00	Packing (RD 3.50 to 7.00 km & 8.825 to 9.600 km.)		
2-11	Bhargavi left Embankment from RD 11.00 to 37.80 km.	3.00				1.00	Mahanadi Basin	Bhargabi	Khordha	11.00 to 12.00km	15.40	1.5:1	3.00	Packing: near RD 11.8km		Design parameter - TBL-15.90 mtr, Top width 3.60 mtr.
										12.00km to 14.00 km	15.00	1.5:1	3.00	Packing : from RD12.500 km to 12.800km		

**DETAIL STATUS OF THE EXISTING RIVER / SALINE EMBANKMENTS (submitted as on 30.04.2021)
(UNDER PURI DISTRICT)**

Sl. No.	Name of the Embankment	Category of the Embankment				Length in km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)				Spur in Nos. with location	Brief description about deficiency in parameters										
		C.E.	O.A.E.	T.R.E.	S.E.						TBL "m"	Side slope	Top Width "m"	Revetment packings (in m) with location												
1	Bhargavi left Embankment fromk RD 11.00 to 37.80 km.	23.80					Bhargavi	Puri	14.00 to 17.500 km.	11	12	13	14	15	16	17										
																	3.50	-do-	Puri	17.500 to 20.75km.	14.63	1.5:1	3.00			Design parameter- TBL-14.80 mtr, Top width 3.60 mtr.)
																	3.25	-do-	Puri	17.500 to 20.75km.	14.30	1.5:1	3.00			Design parameter - TBL-14.30mtr, Top width 3.60 mtr.)
																	4.00	-do-	Puri	20.75 to 24.750 km.	13.55	1.5:1	3.60			Design parameter - TBL-13.69 mtr, Top width 3.60 mtr.)
																	5.10	-do-	Puri	24.75km to 29.850 km.	12.70	1.5:1	3.60	Launching & Packing = RD 24.800 to 24.980 km	180 m	Design parameter - TBL-12.76mtr, Top width 3.60 mtr.)
																	4.22	-do-	Puri	29.85 to 34.07	11.98	1.5:1	3.60	Launching & Packing = (RD 33.790 to 34.070 km.)	280 m	Design parameter - TBL-11.89mtr, Top width 3.60 mtr.
																	3.73	-do-	Puri	34.07 to 37.800 km.	10.12	1.5:1	3.60			Design parameter - TBL-11.89mtr, Top width 3.60 mtr.

Assistant Engineer
Embankment Section
Balanga

Assistant Executive Engineer
Balanga Irrigation Sub-Division
Balanga

Tahasildar
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Collector, Puri.

(Handwritten signatures)

Assistant Engineer
Balanga Irrigation Division

Sl. No.	Name of the Embankment	Category of the Embankment				Length in km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)				Revetment packings (in m) with location	Spur in Nos. with location	Brief description about deficiency in parameters
		C.E.	O.A.E.	T.R.E.	S.E.						TBL "m"	Side slope	Top Width "m"	15			
1																	
2-1	Kushabhadr Right Embankment from RD 30.00 km to 41.00 km.	11.00	0.00	0.00	0.00	7.10	Mahanadi Basin	Kushabhadr a	Puri	RD 30.00 to 37.10 km.	14.10	2:1	5.00	Packing = 380 mtr. (RD 33.600 to 33.680, 33.950 to 34.00, 34.300 to 34.530 KM.)	380 m	2 Nos. Spur at RD 34.50 km, TBL -14.1 mtr top RD 34.530 km width 5.00 mtr. 1 near Nakadha & 1 No. Low level spur at RD 34.100 km.	Design Parameter TBL -14.1 mtr top width 5.00 mtr.
						2.70				RD 37.10 to 39.80 km.	12.40	2:1	4.5	Packing = (RD 37.100 to 37.340, 37.600 to 37.750, 38.200 to 38.310 km)	580 m	Nil	Design Parameter TBL -12.40 mtr top width 4.5 mtr.
						1.20				RD 39.80 to 41.00 km.	11.45	2:1	5.00	Nil	Nil	Design Parameter TBL -11.45 mtr top width 5.00 mtr.	

Asst. Executive Engineer
Nimapara Canal Sub-Division,
Nimapara

Nimapara Tahasil,
Nimapara

Superintending Engineer
Nimapara Irrigation Division
Nimapara

Collector, Puri

Sl. No.	Name of the Embankment	Category of the Embankment				Length in km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)							Brief description about deficiency in parameters
		C.E.	O.A.E.	T.R.E.	S.E.						TBL "m"	Side slope	Top Width "m"	Revetment packings (in m) with location	Spur in Nos. with location			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
						2.30	Mahanadi Basin			RD 55.200 to 57.500 km.	8.15 to 7.18 km.	1.5:1	3.5	Packing RD 57.500 to 57.600 km	100 m	Design Parameter TBL -9.06 to 8.60 mtr, top width 4.00 mtr side slope 1.5:1.		
						10.00	Mahanadi Basin	Kushabhadr a	Puri	RD 57.500 to 67.500 km.	7.18 to 6.17	1.5:1	2.50 to 3.00	Packing RD 58.300 to 58.600, 62.600 to 62.377km	477 m	Design Parameter TBL -8.60 to 6.60 mtr, top width 4.00 mtr side slope 1.5:1.		
3 - II	Kushabhadr a left embankment from RD 55.200 km to RD 73.500 km.	18.30	0.00	0.00	0.00	6.00	Mahanadi Basin			RD 67.500 to 73.500 km.	5.96 to 4.47 km	1:1	2.70 to 3.00		Design Parameter TBL -6.60 to 5.40mtr, top width 4.00 mtr side slope 1.5:1.			

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Asst Executive Engineer
Gop Irrigation Sub-Division
C.M.P.

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Parasitadas, Gop

Superintending Engineer
Wimspare Irrigation Division
Mihirapat

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Collector, Puri

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Sl. No.	Name of the Embankment	Category of the Embankment				Length in km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)				Spur in Nos. with location	Brief description about deficiency in parameters
		C.E.	O.A.E.	T.R.E.	S.E.						TBL "m"	Side slope	Top Width "m"	Revetment packings (in m) with location		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5	Siarocut left embankment from RD 00 to 12.00 km.		12.00			9.00	Mahanadi Basin	Siarocut	Puri	RD 00 to 9.00 km.	8.90 to 7.05m	1.5:1	4.00 to 3.00	NIL	NIL	Design Parameter TBL - 9.07 to 7.27 mtr. Top width - 4.00 mtr
6	Siarocut right embankment RD 00 to 12.00 km.		12.00			6.00	Mahanadi Basin	Dhanua	Puri	0.00 to 6.00 km.	-	1.5:1	5.00	-	-	- do -
						6.00				6.00 to 12.00 km.	-	1.5:1	3.50	-	-	- do -
7	Dhanua left embankment from RD 00 to 5.80 km.		5.80			2.00	Mahanadi Basin	Dhanua	Puri	RD 00 to 2.00 km.	6.50	1.5:1	3.50	-	-	Design Parameter TBL - 7.50 mtr. Top width 4.00 mtr side slope 1.5:1
						3.80				RD 2.00 00 to 5.80 km.	6.30	1.5:1	3.00	-	-	Design Parameter TBL - 7.50 mtr. Top width 4.00 mtr side slope 1.5:1
8	Dhanua Right Embankment from RD 00 to 6.20 km.		6.20			3.00	Mahanadi Basin	Dhanua	Puri	RD 00 to 3.00 km.	9.07	1.5:1	5.00	Packing = 240 mtr (RD 1.500 to 1.740 km. at Bhadrabanka)	NIL	Existing bituminious road from RD 00 to 3.00 km. Design TBL - 9.07
						2.20				RD 3.00 to 5.200 km	7.91	1.5:1	4.00	Packing = 150 mtr (5.200 to 5.35 km. at Chadhelgaon)	NIL	Design Parameter TBL - 7.91 mtr. Top width 4.00 mtr side slope 1.5:1
						1.00				RD 5.200 to 6.20 km.	7.91 to 7.200 km.	1.5:1	3.00	NIL	NIL	Design Parameter TBL - 7.91 to 7.87, Top width - 3.60 mtr.

Chairman
Kalkatpur Panchayat Samiti
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Tahasildar,
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Assistant Executive Engineer,
Kalkatpur Irrigation Sub-Division
Kalkatpur

Superintending Engineer
Nimapara Irrigation Division
Nimapara

Collector, Puri

Sl. No.	Name of the Embankment	Category of the Embankment					Length in km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)						Brief description about deficiency in parameters
		C.E.	O.A.E.	T.R.E.	S.E.	TBL "m"						Side slope	Top Width "m"	Retreatment packings (in m) with location	Spur in Nos. with location			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
12	Tikina Saline embankment from RD 00 to 6.00 km.				6.00	0.75 0.15	Mahanadi Basin	Kushabhadr a	Puri	RD 0.750 to 0.900 km.	2.51	1:1	1.8	NIL	NIL	Design Parameter TBL - 5.20 mtr. Top width 5.00 mtr side slope 2:1		
						5.10				RD 0.900 to 6.00 km.	4.10 to 3.90 km.	1:1	3.00	Packing (from RD 1200 M to 2400 Mtr & RD 3000 to 3300 mtr)	Spur = 2 Nos. at RD 1370 mtr and 1435 Mtr.	Design (assumed) Parameter TBL - 5.20 mtr. To 4.40 m. top width 5.00 mtr. Side slope 2:1		
13	Khalakapatana Saline embankment from RD 00 to 4.00 km.				4.00	1.10	Mahanadi Basin	Kushabhadr a	Puri	RD 00 to 1.10 km	3.50	01:01	2.70	Packing - U/s of Khalakapatana S/E behind the Garudswar Temple	Spur = 2 nos. at RD 60 mtr & 150 mtr (Upstream of Khalakapatana S/E)	Design Parameter TBL - 5.20 mtr. To 4.40 m. top width 5.00 mtr. Side slope 2:1		
						2.90				RD 1.10 to 4.00km	3.90 to 3.15 mtr	1:1	3.00	NIL	NIL	Design Parameter TBL - 5.20 mtr. To 4.40 m. top width 5.00 mtr. Side slope 2:1		
14	Astaranga to Bhuamundali S/E				2.50	2.50	Mahanadi Basin	Bhaunria	Puri	RD 00 to 2.50 km.	2.80	1:1	2.80	NIL	NIL	Design Parameter TBL - 5.20 m & Design slope- 2:1, Widening & raising work and launching work is in progress under NABARD assistance.		
						2.80				RD 00 to 2.800 km.	3.60	1.5:1	3.00	Packing = (RD 0.40 to 0.460km, 1.80 km to RD 2.00 km, 2.500 to 2.600 km.)		Design Parameter TBL - 5.20 m D.Top width - 3.70m & Design slope- 2:1, Widening & raising required.		
						4.40				RD 2.800 to 7.200 km.	3.80	1.5:1	3.80	Packig = RD 2.80 to 4.900 km & 5.200 to 7.00 km.)	Spur = 5 Nos. at RD 3.10, 3.20, 3.30, 4.19 & 4.29 km	DTBL - 5.20 m D.Top width - 3.70m & Design slope- 2:1,		

Sl. No.	Name of the Embankment	Category of the Embankment				Length in km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)				Spur in Nos. with location	Brief description about deficiency in parameters
		C.E.	O.A.E.	T.R.E.	S.E.						TBL "m"	Side slope	Top Width "m"	Revetment packings (in m) with location		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
											2.30	Kadua	Puri			
15	Jharling- Belanga S/E	29.10	8.00	Mahanadi Basin	Kadua	Puri	RD 9.500 to 17.500 km.	2.5 to 2.8	1:1	2.50	Packing (from RD 11.00 to 11.150 km., RD 16.00 to 16.200 km.)	350 m	-	-	-	D.TBL - 5.20 m D.Top width - 3.70m & Design slope-2.1
16	Sahan- Balahadrapur S/E	11.58	11.58	Mahanadi Basin	Kadua	Puri	RD 00 to 11.580 km.	2.5	1:1	3.5	Packing (RD 0.20 to 0.30Km, 2.20 to 2.30, 6.50 to 6.60, 7.0 to 7.20 Km)	500 m	-	-	-	D.TBL - 5.2m D.Top width - 3.7 m & Design slope-2.1, Widening & raising required.
17	Tandahara- Singiripal S/E	4.80	2.82	Mahanadi Basin	Kadua	Puri	RD 1.980 to 4.80 km.	0.5	1:1	1.00	-	-	-	-	-	D.TBL - 5.20m D.Top width - 3.70m & Design slope-1.5:1, Widening & raising required.
18	Keutajanga S/E	3.60	3.60	Mahanadi Basin	Prahi & Kadua	Puri	RD 00 to 3.60 km.	5.2	2:1	3.70	Packing = (from RD 00 to 3.60 km.)	3600 m	-	-	D.TBL = 5.20, Top width = 3.70m	
19	Daluakani Saline gherry	1.50	1.50	Mahanadi Basin	Kadua	Puri	RD 00 to 1.50 km.	2.5	1:1	2.00	Packing = (RD 0.100 to 0.250km)	150 m	-	-	D.TBL - 5.20m D.Top width - 3.7m & Design slope-1:2, Widening & raising required.	

Sl. No.	Name of the Embankment	Category of the Embankment				Length in km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)				Brief description about deficiency in parameters			
		C.E.	O.A.E.	T.R.E.	S.E.						TBL "m"	Side slope	Top Width "m"	Revetment packings (in m) with location		Spur in Nos. with location		
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
20	Kuhudi-Poichandia S/E from RD 00 to 5.500 km.					5.50	5.50	Mahanadi Basin	Bhaunria	Puri	RD 00 to 5.50 m	2.5	1:1	2.50			DTBL - 5.20 m D. Top width - 3.70m & Design slope - 1.5:1, (i) Widening & raising required (i) Launching & packing 100m near RD 1.85Km.	
21	Nagar Saline Embankment RD 00 to 9.600 Km.					6.60	6.60	Mahanadi Basin	Devi / Bhaunria	Puri	RD 00 to 6.600 km	5.2	2:1	3.70	Packing = (RD 00 to 3.00 km., RD 3.500 to 6.00 km., RD 6.00 to 6.660 km.)	6100 m	Spur = 1 No. at RD 250.00 mtr.	DTBL = 5.20, Top width = 3.70m, Work in progress under NCRMP
						3.00	3.00				RD 6.600 to 9.600km	5.2	1.5:1	3.70	Packing = (from RD 6600 to 9600 mtr)	3000 m		DTBL - 5.20m D. Top width - 3.60m & Design slope - 1.2:1. Work in progress under NCRMP
22	Serei to Bandaula S/E					4.00	4.00	Mahanadi Basin	Prachi	Puri	RD 00 to 4.00km.	3.3	1.5:1	3.60	Packing = from RD 120 to 255 mtr.	135 m		DTBL - 5.20 m & D. Top width - 3.70m. (Work in progress under AD3 Assistance)
23	Chhotipada to Badaraula S/E					3.66	3.66	Mahanadi Basin	Kadua	Puri	RD 00 to 3.66 km.	RD 00 to 2.00 km. = 2.00 mtr = 5.20 mtr and 2.00 to 2.700 km = 4.5 mtr, 2.700 to 3.660 km. = 3.00 mtr	2:1	3.70	Packing = (RD 00 to 1.500 km.)	1500 m		DTBL = 5.20, Top width = 3.70m, Work in progress under NCRMP.

Sl. No.	Name of the Embankment	Category of the Embankment					Length in Km.	Name of the Basin	Name of the river	District	Reach	Status of the Embankment (Reach wise)				Spur in Nos. with location	Brief description about deficiency in parameters
		C.E.	O.A.E.	T.R.E.	S.E.	TBL "m"						Side slope	Top Width "m"	Revetment packings (in m) with location			
1																	
24	Ukulei- Astaranga Saline Embkt.				2.70	1.80	Mahanadi Basin	Bhauria	Puri	RD 00 to 1.80 km. to 2.70 km.	2.50	1.5:1	2.00				DTBL - 5.20 m D. Top width - 3.70m & Design slope- 2:1 Widening & raising required.
25	Tentulia Saline Embankment				2.50	2.50	Mahanadi Basin	Prachi	Puri	RD 00 to 2.50 km.	1.00	1.00	1.00				-do-
					Sub-total=	91.04	91.04	Km									
					Total=	261.62	Km										

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