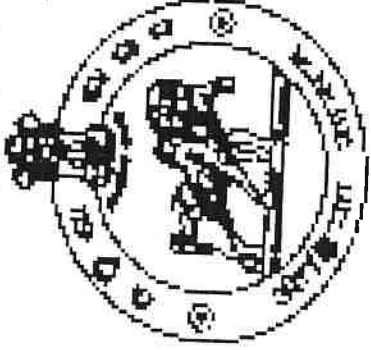


KHURDA IRRIGATION DIVISION




GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES

DETAILS HEALTH STATUS OF THE EXISTING RIVER AND
SALINE EMBANKMENTS UNDER
KHURDA IRRIGATION DIVISION, KHURDA.
FOR THE YEAR 2023-24


Superintending Engineer,
Khurda Irrigation Division,
Khurda.

KHURDA IRRIGATION DIVISION

ABSTRACT OF EMBANKMENTS UNDER KHURDA IRRIGATION DIVISION, KHURDA						
Sl.No	DISTRICTS	Length of Embankment in Km				TOTAL LENGTH IN Km.
		C.E	O.A.E	T.R.E	S.E	
1	Khurda	0.00	64.90	4.00	69.82	138.72
2	PURI	0.00	83.00	0.00	10.00	93.00
3	Cuttack	40.00	12.50	0.00	0.00	52.50
	G.Total =	40.00	160.40	4.00	79.82	284.22


Superintending Engineer
Khurda Irrigation Division
Khurda

**ABSTRACT OF EMBANKMENTS UNDER KHURDA IRRIGATION DIVISION, KHURDA
IN KHURDA DISTRICT**

Sl.No	Type of embankment	Length in Km
1	Capital	
2	O.A.E	64.90
3	T.R.E	4.00
4	Saline	69.82
Total		138.72

1/13/13

Superintending Engineer
Khurda Irrigation Division
Khurda

**JOINT VERIFICATION OF MAHANADI RIGHT FLOOD EMBANKMENT FROM
BAIDESWAR TO MUKUNDAPUR ON DATE 27.04.2023.**

Officers Inspected the Embankment:-

- 1) Sri. Ranjan Kumar Jena, Sub-Collector, Banki
Syamal
- 2) Sri Santat-Kumar Ray, B.D.O, Banki - *Dompada*
- 3) Sri Anil Kumar Padhi, Asst.Executive Engineer, Khurda Irrigation Sub-Division.
- 4) Sri Pravas Chandra Pattanayak, Asst. Engineer, Banki Irrigation Section.Banki

The Joint verification of Mahanadi right embankment from Baideswar to Mukundapur is conducted on dt 27. 04.2023.The total lengthis 25 Km in between village Baideswar to Mukundapur.Out of 25 Km there is existing flood bank in Mahanadi right is 24 Km.The restoration work of river embankment near village Baideswar,Rajib,Botalama,Bedapur and Chakapada are completed in March 2023.

So from the Joint verification, it is observed that all necessary protections have been taken of different points with stacking of sand and gunny bags, so the Mahanadi right embankment from village Baideswar to Mukundapur will be safe during flood and appears to withstand the flood in Mahanadi river.

Deelishwar
Sub-Collector
Banki

B.T.M. 22
B.D.O
Banki - *Dompada*

Pravas
Asst.Executive Engineer
Khurda Irrigation Sub-Division
Khurda

P. H. A. 2023
Asst. Engineer
Banki Irrigation Section
Banki

Pravas
Additional Engineer
Central Irrigation Circle
Bhubaneswar-12


Countersigned

[Signature]
Collector, Cuttack

SCHEDULE FOR VERIFICATION OF EMBANKMENT UNDER KHURDA IRRIGATION DIVISION,
KHURDA

DISTRICT : KHURDA

Sl. No	Name of embankment	Length	Tahasil	Date of verification
1.	Malaguni left & right with gherry and Rajua right	22.10 K.M + 8.10 K.M	Khurda	
2.	Hada left & right	25.20 K.M	Bolagarh	
3.	Kusumidhar Left & right and gherries on Chilika	6.50 K.M. + 61.00 K.M.	Tangi Chilika	
4.	Salia, Sapua embankment and Saline embankment	6.50 K.M. + 7.50 K.M	Banapur, Chilika	


Superintending Engineer,
Khurda Irrigation Division,
Khurda

DETAILS STATUS OF THE EXISTING RIVER / SALINE EMBANKMENTS

KHURDA DISTRICT

NAME OF THE DIVISION: KHURDA IRRIGATION DIVISION, KHURDA

Sl. No	Name of the Embankment	Category o the Embky.				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 packing "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
1	Daya Right Embankment		O.A.E			1.00	LMB	Daya	Khurda	00km to 1.00 km	9.00	(1:5:1)	5.00 to 5.50	-	-	Earth work and both side packing work is in progress
2	Rajua right embankment		O.A.E			2.00	L.M.B	Rajua	Khurda	00km to 2.00km	7.00 to 7.50	(1:2:1)	3.00 to 3.40	RD 00km to RD 2.00km		Widening the embankment with earth work and R/S packing is required.
3	Hada left embankment		O.A.E			5.50	L.M.B	Hada	Khurda	00km to 5.50km	63.00 to 62.00	(1:3:1)	5.00 to 3.60			Widening the embankment with earth work and R/S packing & launching work is required due to river flow is neaqrer to embankment
4	Hada right embankment		O.A.E			7.00	L.M.B	Hada	Khurda	00km to 7.00km	63.00 to 62.00	(1:3:1)	3.40 to 3.00			Widening the embankment with earth work and R/S packing & launching work is required due to river flow is neaqrer to embankment
5	Hada left embanment at Magura		O.A.E			2.50	LMB	Hada	Khurda	00 to 2.500km	64.00 to 65.00	(1.5:1)	3.00 to 3.60			Earthwork for widening, the river flow is very close to embankment so slope packing is required
6	Hada left at Barabati to Haladipada		O.A.E			3.89	LMB	Hada	Khurda	00 to 3.89km	64.00 to 65.00	(1.5:1)	3.00 to 3.30	RD 2.00km to RD 2.20km		Earthwork for widening, the river flow is very close to embankment so slope packing is required
7	Hada right from Tareswar Temple to Khauruni		O.A.E			4.70	LMB	Hada	Khurda	00 to 4.70km	64.00 to 65.00	(1.5:1)	3.00 to 3.30	RD 2.00km to RD 2.20km		Earthwork for widening, the river flow is very close to embankment so slope packing is required
8	Hada left at Sanakumari		O.A.E			2.00	LMB	Hada	Khurda	00 to 2.00km	64.00 to 65.00	(1.5:1)	3.00 to 3.30			Earthwork for widening, the river flow is very close to embankment so slope packing is required
9	Hada left at Binodpada to Nayapatana		O.A.E			1.50	LMB	Hada	Khurda	00 to 1.50km	63.50 to 65.00	(1.5:1)	3.00 to 3.40	1.20km to 1.34km		Earthwork for widening, the river flow is very close to embankment so slope packing is required
10	Kusumidhar left embankment		O.A.E			3.25	L.M.B	Kusumidhar	Khurda	00km to 3.25km	5.50	(1:5:1)	2.00 to 3.50	00 to 3.25		Widening the embankment with earth work and R/S packing is required
11	Kusumidhar Right embankment		O.A.E			3.25	L.M.B	Kusumidhar	Khurda	00km to 3.25km	5.50	(1:5:1)	2.00 to 3.25	00 to 1.50		Widening the embankment with earth work and R/S packing is required

12	Mangalajodi saline gherry				SE	7.50	L.M.B		Khurda	00km to 4.50km	3.20	(1:5:1)	5.00 to 5.50			Handed over to R..W. Dept, Khurda
									Khurda	4.50km to 7.50km	3.20	(1:3:1)	3.00 to 3.50			Widening the embankment with earth work and R/S packing is required
13	Block-1 saline gherry				SE	7.50			Khurda	00km to 7.50km	3.20	(1:5:1)	4.00 to 4.50			Widening the embankment with earth work and R/S packing is required
										5.80km to 7.50km	3.20	(1:5:1)	3.00 to 3.50			Widening the embankment with earth work and R/S packing is required
14	Block-II Saline gherry				SE	5.30	L.M.B		Khurda	00km to 5.30km	3.20	(1:5:1)	3.00 to 3.60			Widening the embankment with earth work and R/S packing is required
15	Block-III saline gherry				SE	10.50	L.M.B		Khurda	1.80km to 7.80km	3.2	(2:1)	3.60			Earth work and both side packing work is in progress
										7.80 to 10.50km	2.80 to 3.00	(1.5:1)	3.00 to 3.60			Widening the embankment with earth work and R/S packing is required
16	Subhadrapur saline gherry				SE	12.00	L.M.B		Khurda	0.00 to 12.00km	0.30	(1:1)	0.50 to 0.60			Resectioning the embankment with earth work and R/S packing is required
17	Subhadrapur cross saline gherry				SE	5.19	L.M.B		Khurda	00km to 5.19km	3.20	(1.5:1)	5.00			Earth work and both side packing work is in progress
18	Sitarampur saline gherry				SE	3.30	L.M.B		Khurda	00km to 1.70km	3.00 to 3.50	(1.5:1)	3.00 to 3.50			Handed over to R..W. Dept, Khurda
										1.70km to 3.30km	3.00 to 3.50	(1:3)	3.00 to 3.20			Earth work and both side packing work is in progress
19	Mangalajodi Saline Gherry				S.E	6.70	LMB	Chilika Lake	Khurda	00 to 2.10km	5.50m to 6.00m	(1.5:1)	2.80 to 3.00	Both side except from 00m to 540m on lake side		Stone packing on lake side from RD 00m to 540mtr
										2.10km to 2.61km	2.90m	(1.5:1)	3.60m	Both side packing upto 2500m		In good condition. Packing required from 2500m to 2610m on both sides
										2.61km to 3.50km	2.00m to 2.50m	(1:1)	2.50m to 3.00m			Earth work to maintain design section with TBL 3.20M TBW 3.60M both side packing required
										3.50 to 4.50km	2.50m to 3.00m	(1:1)	2.50m to 3.00m			Earth work to maintain design section with TBL 3.20M TBW 3.60M both side packing required
										4.50 to 5.70km	3.00m	(1.5:1)	3.60m	Both side packing		In good condition

									5.70km to 6.70km	2.00m to 2.50m	(1:1)	2.50m to 3.00m			Earth work to maintain design section with TBL 3.20M TBW 3.60M packing to both the sides
20	Block -III Cross gherry			S.E	2.00	LMB	Chilika	Khurda	00 to 2.00km	2.00	(1:1)	1.5			Earth work to maintain design section with TBL 3.20M TBW 3.60M
21	Block -II Cross gherry left side Kathilagotha Drain			S.E	3.60	LMB	Chilika	Khurda	00 to 2.01km	2.00	(1:1.50)	2.40			Earth work to maintain design section with TBL 3.20M TBW 3.60M
									2.01 to 3.60km	2.00	(1:1.50)	2.40			-do-
22	Block -II Cross gherry right side Kathilagotha Drain			S.E	2.02	LMB	Chilika	Khurda	00 to 2.02km	3.20	1:1.50	3.6	60 to 1000m for 1m ht		In good condition stone packing required to both side slope
23	Saline embankment from Soran to Kalupadaghat and Balinasi			S.E	2.61	LMB	Chilika	Khurda	00 to 0.40km	2.00	1:1	3.00			Earth work to maintain design section with TBL 3.20M TBW 3.60M
									0.40 to 2.50km	NSL					Earth work to maintain design section with TBL 3.20M TBW 3.60M
									2.50 to 2.605km	2.00	1:1	3.00			Earth work to maintain design section with TBL 3.20M TBW 3.60M
24	Malaguni left embankment from Golabai to Atharabatia	-	OAE	-	-	4.47	LMB	Malaguni	Khurda	0.0 -0.78km	10.20-9.86	1:1.50	3.40-4.00		Design TBL 10.10m to 9.83m. 350m long retaining wall required
								Khurda	0.78 - 2.51km	9.86-9.00	1:1.50	3.20-4.00	25m near Naikulapatna		Earthwork for widening, launching, packing required due to river flow is very close to embkt
								Khurda	3.24 - 4.27km	8.63-7.60	1:1.50	3.80-4.00			Design TBL 8.96 to 8.63m Earth work for Raising & strengthening , required.
								Khurda	5.60 - 5.80km	6.90-7.05	(1:1.50)	3.40-4.50	120m at RD 5520m		Design TBL 7.60 to 7.22m Launching & packing required.
25	Malaguni right embankment from Rameswar to Rajakhama	-	OAE	-	-	6.365	LMB	Malaguni	Khurda	00 -1.68km	11.95-10.78	(1:1.4)	3.00-3.50		widening with earthwork. Retaining wall 350m long and packing 300m long required.

								Khurda	1.68-6.365km	9.05-9.30	1:1.50	3.50-4.00			Launching & Packing 300m and Guard wall 1.0m length required.
26	Hadapada Saradhapur embankment on Rajua right		OAE		4.20	LMB	Rajua	Khurda	00 - 2.50km	6.10	(1:1.5)	5.00			Road is under Rvw Division. Retaining wall & packing 600m required.
								Khurda	2.50- 4.20km	6.10 to 6.00	(1:1.5)	3.00 - 4.50	RD 2.52 to 3.04km		Design TBL 6.50 Earthwork required for R/S.packing required due to river flows nearer to embkt
27	Malaguni left embankment from Rambhabilli to NH-5		OAE		1.41	LMB	Malaguni	Khurda	00 - 1.41	14.67-14.78	(1:1.5)	3.00-3.60			Earthwork for widening & packing required due to river flows nearer to embkt
28	Ichhapur Gherry		OAE		2.50	LMB	Rajua	Khurda	(1:1.41)	4.50-4.89	(1:1.2)	1.80-3.30			Earth work for raising and widening 1400m required.
									1.41-2.50	5.80-5.60	(1:1.5)	5.00			Road is by RW-Division
29	Lekhanpur Gherry		OAE		2.07	LMB	Rajua	Khurda	00 to 0.54	6.10-6.00	(1:1.5)	3.20-4.00	R/s 00-0.30km		Earth work for widening 700m & retaining wall 400m required.
									0.54-1.28	6.00-5.80	(1:1.5)	3.60	R/s 0.54-1.22km		Design TBL 6.50 Earthwork required for R/S.packing required due to river flows nearer to embkt
									1.28-2.07	5.80-5.70	(1:1.5)	3.80-5.00			Road is under RW Division
30	Balikudia gherry-I & II on Malaguni left		TRE		1.00	LMB	Malaguni	Khurda	00 to 0.36 & 0.36 to 1.00km	5.60 to 5.80M	(1:1.5)	2.00-2.50			Earthwork for raising, widening, packing required.
31	Dalahana nallah left & right embankment up to Bhagabatipada.		TRE		3.00	LMB	Malaguni	Khurda	00 to 3.00km	7.00 to 7.50M	(1:1)	2.00m to 2.50m			Earthwork for raising, widening required.
32	Salia River embankment from the back side of old age home to Nimikheta village 00- 8.9 Km		OAE		8.90	LMB	Salia	Khurda	0 to 135 mtr	14.75	1:1.5	-	0-135 mtr	No	Left embankment restoration work partially completed.

										135 mtr to 378	12.91	1:1	-	-	No	Requires raising & strengthening of embankment with stone packing. Guard wall requires to check soil erosion.
										378 mtr to 407 mtr	12.69	1:1.5	2	CC concrete guard wall with Stone packing. 378 mtr to 407 mtr.	No	
										407 mtr to 638 mtr	13.10	1:1	-		No	Requires raising & strengthening of embankment with guard Wall. This is a filling zone. The Guard wall requires to check Soil erosion.
										638 mtr to 768mtr	12.66	1:1.5	2	638-768mtr	No	Left embankment restoration work done & Right bank 52 mtr restored with Stone dumping & Packing
										768 mtr to 1290 mtr	12.2	1:1	-		No	Requires raising & strengthening of embankment with both embankment Masonry Wall required as the HFL was 12.95. The masonry guard requires to check the soil erosion.
										768 mtr to 1290 mtr	12.2	1:1	-	790 mtr to 945 mtr restored by dumping & packing	No	Requires raising & strengthening of embankment with both embankment Masonry Wall required. The masonry guard requires to check the soil erosion.
										1290 mtr to 2130 mtr	11.9	1:1.5	2	Right embankment Stone packed from 1290 mtr to 2085 mtr .	No	Requires raising & strengthening of embankment with both embankment Masonry Wall required. The masonry guard requires to check the soil erosion.
										2130 mtr to 2380 mtr	11.44	1:1.5	2	Left embankment from 2170 mtr to 2470 mtr		Right embankment Masonry Wall required as this is scouring zone including raising & strengthening of embankment.

									2380 mtr to 2470 mtr	12.2	1:1.5	2	CC concrete guard wall with Stone packing. 2380 mtr to 2470 mtr.		
									2470 mtr to 2785 mtr	11.25	1:1	2	Left embankment Stone packed fro 2650mtr to 2785 mtr & Right embankment from 2610 mtr to 2756 mtr.	No	Raising & strengthening of embankment with Masonary Wall required.
									2785 mtr to 2839 mtr	10.85	1:1	-	Left bank Concrete wall done	No	Right embankment Masonary Wall required as this is scouring zone including raising & strengthening of embankment.
									2839 mtr to 3500 mtr	10.85	1:1	-		No	Both the embankment required Stone packing with guard wall, raising & strengthening as the banks are scouring every year.
									3500 mtr to 3800 mtr	9.15	1:1	-		No	Left bank restored with CC Guard wall & Right bank 180 mtr resored
									3800 mtr to 6900 mtr	9.15	1:1	-	3515 to 3572 mtr left embankment completed	No	Both the embankment required Stone packing with guard wall, raising & strengthening as the banks are scouring every year. Left embankment restored 57 mtr at shakti cinema hall
									6900 mtr to 7500 mtr	8.45	1:1			No	Both the embankment required raising ,strengtening , Stone packing with guard wall as the banks are scouring every year. Massive crops loss held in 2013 severe cyclone "PHAILIN"

Joint verification report on Rajua right embankment from RD 00m to 4.00km

Members Present:-

- 1) *Rumana Jafri*, Tahasildar, Jatni
- 2) Sri Chittaranjana Acharya, Asst. Executive Engineer, Rajua Irrigation Sub-Division, Khurda
- 3) Sri Akshaya Kumar Behera, Asst. Engineer, Rajua Irrigation Section, Rajua
- 4) Sri Brahmananda Behera, Junior Engineer, Rajua Irrigation Section, Rajua

The joint verification of Rajua Right embankment from RD 00 to 4.00km near village Haladiapada is conducted on 15.05.2023 . The total length is 4.00km in between village Tirumal to Haladiapada.. The restoration work in river embankment near village Tirumal to Haladiapada is to be completed in June 2023.

So from the joint verification, it is observed that all necessary protections have been taken up at different points with stacking of sand and gunny bags so the Rajua right embankment will be safe from flood.

Rachana
15/5/23
Junior Engineer
Rajua Irr. Section,
Rajua

[Signature]
15-5-23
Asst. Executive Engineer
Rajua Irr. Sub-Division,
Khurda

[Signature]
Tahasildar
Jatni
15.5.23
**Tahasildar
Jatni**

[Signature]
16/5
Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

[Signature]
Collector-cum-District Magistrate
KHORDHA

Joint verification report of Malaguni left embankment from Golabai to Naikulapatana (From RD 00km to RD 1.620km), from Krushnapur to Masania (from RD 3.206km to RD 3.546km & from Tentulimula to Lekhanpur (from RD 4.20km to RD 8.,.30km) is conducted on 10.05.2023

Members Present:-

- 1) Sri Bibhas Ranjan Panigrahi, Tahasildar, Khordha
- 2) Sri Anil Kumar Padhi, Asst. Executive Engineer, Khurda Irrigation Sub-Division, Khurda
- 3) Sri Shishir Kumar Sahu, Asst. Engineer, Jankia Irrigation Section, Jankia

The total length of left embankment is 6.00km has been black topped and used as service road. Restoration of Malaguni left embankment has been completed in March, 2023.

So from the joint verification, it is observed that all necessary protections have been taken of different points with stacking of sand and gunny bags. So the Malaguni left embankment under Khordha District is safe during ensuing flood. .

Inspected the Malaguni River left embankment from Golabai to Lekhanpur. The embankment is good condition and appears to withstand flood in Malaguni River.


10.05.23

Tahasildar
Khordha


10.05.23

Assistant Engineer
Jankia Irr. Section.,
Jankia


10.05.23

Assistant Exe. Engineer,
Khurda Irrigation Sub-Divn.
Khurda



Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12


Collector-cum-District Magistrate
KHORDHA

JOINT VERIFICATION OF HADA LEFT AND RIGHT FLOOD EMBANKMENT FROM HALADIPADA TO KHARADA PALLI AND ARIKAMA TO PATAPUR SASAN ON DATE.27.04.2023

Officers Inspected the Embankment:-

- 1) *Mias Santoshine Dagh, Tahasildar, Bolopah*
 - 2) *Sri Anil Kumar Padhi, Asst.Executive Engineer, Khurda Irrigation Sub-Division.*
 - 3) *Sri Pravas Chandra Pattanayak, Asst. Engineer, Banki Irrigation Section, Banki.*
- a) *Inspected the left embankment of Hada river from Haladipada to Kharadapalli. The weak points 100m near Sagargaon is being restored by earth work and lurching with surface packing. The embankment is in good condition and appears with stand the flood in Hada river.*
- b) *Inspected the right embankment of Hada river from Arikama to Patapursasa. The embankment is in good condition and appears with stand the flood in Hada river.*

Santosh K. D.
Tahasildar
BOLAGARH
TAPAPUR SASAN

Anil K. P.
Asst. Executive Engineer
Khurda Irrigation Sub-Division
Khurda

Pravas C. P.
Asst. Engineer
Banki Irrigation Section
Banki

Pravas C. P.
Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

Pravas C. P.
Collector-cum-District Magistrate
KHORDHA

Joint verification report on Kusumidhar left and right embankment

Members Present:-

- 1) Sri. Dillip Kumar Sarangi, Tahasildar, Chilika
- 2) Sri Anil Kumar Padhi, Asst. Executive Engineer, Khurda Irrigation Sub-Division, Khurda
- 3) Sri Sanjay Kumar Sahoo, Asst. Engineer, Tangi Irrigation Section, Tangi

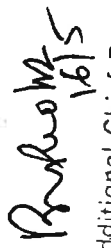
The joint verification of Kusumidhar left and right embankment from RD 00 to 1.5km near village Jaripada is conducted on 11.05.23. The total length is 1.5km in between village Kalupada to Jaripada. Out of 1.5km there is existing flood bank in Kusumidhar left and right is 1.5 km. The restoration work to river embankment near village Jaripada to be completed in May, 2023.

So from the joint verification, it is observed that all necessary protections have been taken up different points with stacking of sand and gunny bags so the Kusumidhar left and right embankment will be safe from flood.


Assistant Engineer
Tangi Irr. Section.,
Tangi


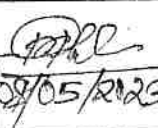

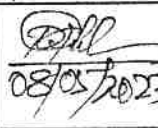

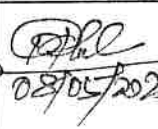

Asst. Executive Engineer
Khurda Irr. Sub-Division,
Khurda


Tahasildar
Chilika
Chilika


Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

Collector-cum-District Magistrate
KHORDHA

VERIFICATION OF RIVER EMBANKMENT UNDER SALIA DAM SUB-DIVISION FOR THE YEAR 2023-24

Sl No	River Basin	Name of River/Saline embankment	District	Block	Cinstituency	Location	Officer visited the site			Remarks
							JE/AE	AEE	SE	
1	2	3	4	5	6	7	8	9	10	11
1	Lower Mahanadi Basin	Salia	Khordha	Banapur	Chilika	Salia river embankment RD 0.0km to 2.50Km	 08/05/2023	 08/05/2023		No vulnerable points found in the embankment
2	Lower Mahanadi Basin	Sapua	Khordha	Banapur	Chilika	Sapua river embankment RD 0.0km to 3.00Km	 08/05/2023	 08/05/2023		No vulnerable points found in the embankment
3	Lower Mahanadi Basin	Saline Embankment	Khordha	Banapur	Chilika	Saline embankment from Barakul to Kumandala	 08/05/2023	 08/05/2023		No vulnerable points found in the embankment


The ongoing repair works at some points need to be completed soon.
08/05/2023



AE/JE

Salia Irr. Section
Hantua


08/05/2023
Asst. Executive Engineer
Salia Dam Sub-Division
Banapur


15/05/23
Tahasildar
Banapur


16/5
Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12


Collector-cum-District Magistrate
KHORDHA

SCHEDULE FOR VERIFICATION OF EMBANKMENT UNDER KHURDA IRRIGATION DIVISION,
KHURDA

DISTRICT : PURI

Sl. No	Name of embankment	Length	Tahasil	Date of verification
1.	Malaguni embankment embankment with gherries	9.80 K.M.	Kanas	24.4.23
2.	Daya Right embankment, Rajua left and right with gherries	38.20 K.M	Kanas	27.4.23
3.	Makara Right embankment with gherries	49.00 K.M.	Kanas	28.4.23


Superintending Engineer,
Khurda Irrigation Division,
Khurda

ABSTRACT OF EMBANKMENTS UNDER KHURDA IRRIGATION DIVISION, KHURDA IN PURI DISTRICT		
Sl.No	Type of embankment	Length in Km
1	Capital	-
2	O.A.E	83.00
3	T.R.E	-
4	Saline	10.00
Total		93.00


Superintending Engineer

Khurda Irrigation Division
Khurda

DETAILS STATUS OF THE EXISTING RIVER / SALINE EMBANKMENTS

PURI DISTRICT

NAME OF THE DIVISION: KHURDA IRRIGATION DIVISION, KHURDA

S. No	Name of the Embankment	Category of the Embkly.				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 packing "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
	Malaguni left embankment from Golabai to Atharabatia	-	O.A.E	-	-	4.86	LMB	Malaguni	Puri	4.27 - 5.60km	8.63-7.60	1:1.50	3.80-4.00			Design TBL 8.96 to 8.63m Earth work for Raising & strengthening , required.
									Puri	5.80 - 9.33km	7.60-6.90	1:1.50	3.40-4.00			Design TBL 8.63 to 7.60m Earth work for Raising & strengthening , required.
2	Daya Right Embankment		O.A.E			13.20	LMB	Daya	Puri	1.00km to 4.50km	9.00 to 9.50	(1:5:1)	5.00 to 5.50	RD 5.50 to 6.50		Handed over to R.W. Department, Puri
									Puri	4.50km to 6.50km	9.00 to 9.50	(1:5:1)	5.00 to 5.50	RD 5.50 to 6.50		Handed over to R.W. Department, Puri
									Puri	6.50km to 11.00km	9.00 to 9.50	(1:5:1)	5.00 to 5.50	5nos. RD 8.80km to RD 9.00km & 4nos from RD 9.70km to RD 9.80km		Earth work and river side packing work is under progress
									Puri	11.00km to 14.20km	9.00 to 9.50	(1:5:1)	5.00 to 5.50			Earth work is completed by R.W. Department, Puri and R/S packing and launching work is required due to river flow is nearer to embankment
3	Nankera Gherry		O.A.E			1.84	L.M.B	Daya	Puri	00km to 1.84km	8.00	(1:2:1)	3.00 to 3.50			Resectioning the embankment with top width 5m and R/S packing to be done
4	Rajua left embankment		O.A.E			9.50	L.M.B	Rajua	Puri	00km to 9.50km	8.00	(1:5:1)	4.00 to 3.60	RD 4.50km to RD 6.00km		Widening the embankment with earth work and R/S packing is required and also launching work is required due to river flow is nearer to embankment
5	Rajua right embankment		O.A.E			2.20	L.M.B	Rajua	Puri	2.00km to 4.20km	7.00 to 7.50	(1:2:1)	3.00 to 3.60	RD 2.00km to RD 4.20km		Widening the embankment with earth work and R/S packing is required.
6	Sanaput Gherry		O.A.E			0.60	L.M.B	Rajua	Puri	00km to 0.60km	7.00	(1:2:1)	3.00	RD 00km to RD 0.60km		Widening the embankment with earth work and R/S packing is required.

7	Makara Right embankment	O.A.E		12.20	L.M.B	Makara	Puri	00km to 6.50km	5.00 to 5.50	(1:5:1)	5.00 to 5.50			Launching work is required due to river flow is nearer to embankment
								6.500km to 7.50km	5.00 to 5.50	(1:5:1)	5.00 to 5.50			Handed over to R.W. Dept, Puri
								7.500km to 12.20km	4.00 to 5.00	(1:2:1)	5.00 to 5.50			Widening the embankment with earth work and R/S packing is required.
8	Chipuring gherry	O.A.E		8.50	L.M.B	Daya & Makara	Puri	00km to 5.50km	5.00	(1:5:1)	4.50 to 3.60			Widening the embankment with earth work and R/S packing is required.
								5.50km to 8.50km	5.00	(1:5:1)	5.00			Handed over to R.W. Dept. Puri
9	Paikamara Gherry	O.A.E		7.00	L.M.B	Daya	Puri	00km to 7.00km	5.00	(1:5:1)	3.00 to 4.50			Widening the embankment with earth work and R/S packing is required
10	Temple Saline gherry		S.E	7.00	L.M.B	Makara	Puri	00km to 7.00km	3.50	(1:3:1)	5.00 to 3.00			Widening the embankment with earth work and R/S packing is required
11	Makara right embankment from Adal to Dochhian	OAE		1.50	LMB	Makara	Puri	00 to 1.50km	3.30 o 3.80	(1:1)	3.60 to 3.00			Earthwork widening required
12	Ogalpur on Makara left	OAE		3.00	LMB	Makara	Puri	00 to 0.900km	3.00 to 3.80	(1:1)	3.00 to 1.80			One new sluice and earth work for widening is required
								0.90km to 2.00km	3.80	(1.5:1)	4.00	R/S RD 1.50km to 1.80km		One new sluice and packing is required
								2.00km to 3.00km	2.50 to 3.00M	(1:1)	2.00m			Earthwork for raising, strengthening, packing is required
13	Haripur Saline gherry		SE	3.00	LMB	Makara	Puri	00 to 5.00km						No existence of gherry
14	Dokanda gherry	O.A.E		0.70	LMB	Daya	Puri	00 to 0.70km	5.70M	(1:1)	2.00			Earthwork for raising, widening, the river flow is very close to embankment so slope packing is required
15	Botalama gherry	O.A.E		0.50	LMB	Daya	Puri	00 to 0.50km	4.00m	(1:1)	4.00	RD 00 to 0.060 & 0.40km to 0.50km		
16	Paikamara gherry on Makara left embankment	O.A.E		4.30	LMB	Makara	Puri	00 to 2.30km	3.5	(1:1)	2.50 to 3.00			Earthwork for widening, the river flow is very close to embankment so slope packing is required
17	Dholapatana to Gadasanaput	O.A.E		1.50	LMB	Makara	Puri	00 to 1.50km	NSL					No existence of embankment

18	Malaguni right embankment from Rameswar to Balabhadrapur	-	OAE	-	-	9.85	LMB	Malaguni	Puri	6.80 to 12.87km	6.90 - 7.10	(1:1.5)	3.50 to 4.00	11.36-11.51km	Guard wall & Earth work for widening 450m leng th required.
									Puri	12.87 - 14.00 km	6.60-6.00	(1:1.5)	3.60		Retaining wall 500m length with Earth work for widening required.
									Puri	14.00- 16.65 km	6.00	(1:1.5)	4.00-4.50		Retaining wall 200m long with Earth work for widening required.
1	Atharabatia Gherry		OAE			1.75	LMB	Rajua	Puri	00-0.60km	6.00	(1:1.5)	3.00-3.60	60m at RD 0.53	Earth work 700m for widening & retaining wall 450m required.
									Puri	0.60-1.40km	6.00-5.80	(1:1.5)	3.60	180m at RD 0.85km	Design TBL 6.50 Earthwork required for R/S.packing required due to river flows nearer to embkt
									Puri	1.40-1.75km	5.80	(1:1.5)	3.60		Design TBL 6.50 Earthwork required for R/S.packing required due to river flows nearer to embkt
Total						93.00									

COUNTERSIGNED

01
12/5/23

Collector, Puri, etc

12/5/23
Superintending Engineer
Khurda Irrigation Division
Khurda

Joint verification report on Malaguni left and right embankment

Members Present:-


- 1) Sri Santosh Kumar Panigrahi, Tahasildar, Kanas
- 2) Sri Anil Kumar Padhi, Asst. Executive Engineer, Khurda Irrigation Sub-Division, Khurda
- 3) Sri Shishir Kumar Sahu, Asst. Engineer, Jankia Irrigation Section, Jankia


The joint verification of Malaguni left and right embankment from RD 6.00km to RD 9.330km and from RD 6.365km to RD 16.650km is conducted on 10.05.2023 near village Ostapari.


The total length of Malaguni right embankment is 10.285km within Puri District (from RD 6.365km to RD 16.650km). During last flood near village- Ostapari at RD 14.680km & at RD 14.430km, 3nos of piping points created, which has been closed permanently with puddle filling.

So from the joint verification, it is observed that all necessary protections have been taken up for safe prevention from flood..



Tahasildar
Kanas


Assistant Engineer
Jankia Irr. Section.,
Jankia


Assistant Exe. Engineer,
Khurda Irrigation Sub-Divn.
Khurda


16/5
Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

COUNTERSIGNED


12/5/23

Collector, Puri. 1/c

Joint verification report of River embankment on Daya, Makara and Rajua under Khurda irrigation Section, Khurda


Members Present:-

- 1) Sri Santosh Kumar Panigrahi, Tahasildar, Kanas
- 2) Sri Anil Kumar Padhi, Asst. Executive Engineer, Khurda Irrigation Sub-Division, Khurda
- 3) Sri Surendra Kumar Sahoo, Asst. Engineer, Khurda Irrigation Section, Khurda

The joint verification of River embankment on River Daya (RD 0.0km to 14.00km), Makara (RD 0.0km to 12.50km) and Rajua (Rd 0.0km to 10.00km) near village ~~Badaput~~, Pahilundi & Bhatapada, Badaput is conducted on 10-5-23. The total length is 80km. Out of 80km, the pipings in ~~some places~~ has been restored, the breach closing on River Makara near village Pahilundi and Bhatapada has been permanently closed. Hence, the restoration work to above river embankments has been completed in May, 2023.

So from the joint verification, it is observed that all necessary protections have been taken up for safe prevention from flood.


Tahasildar
Kanas


Assistant Engineer
Khurda Irr. Section,
Khurda


Assistant Exe. Engineer,
Khurda Irrigation Sub-Divn.
Khurda

COUNTERSIGNED


16/5


12/5/23

Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

Collector. P.N. 1/c


Joint verification report on Rajua right embankment from RD 00m to 4.00km

Members Present:-


- 1) Sri Santosh Kumar Panigrahi, Tahasildar, Kanas
- 2) Sri Chittaranjana Acharya, Asst. Executive Engineer, Rajua Irrigation Sub-Division, Khurda
- 3) Sri Akshaya Kumar Behera, Asst. Engineer, Rajua Irrigation Section, Rajua
- 4) Sri Brahmananda Behera, Junior Engineer, Rajua Irrigation Section, Rajua

The joint verification of Rajua Right embankment from RD 00 to 4.00km near village Haladiapada is conducted on 15.05.2023. The total length is 4.00km in between village Tirumal to Haladiapada.. The restoration work in river embankment near village Tirumal to Haladiapada is to be completed in June 2023.

So from the joint verification, it is observed that all necessary protections have been taken up at different points with stacking of sand and gunny bags so the Rajua right embankment will be safe from flood.


Junior Engineer
Rajua Irr. Section,
Rajua


Asst. Engineer
Rajua Irr. Section,
Rajua


Asst. Executive Engineer
Rajua Irr. Sub-Division,
Khurda


Tahasildar
Kanas

SCHEDULE FOR VERIFICATION OF EMBANKMENT UNDER KHURDA IRRIGATION DIVISION,
KHURDA

DISTRICT : CUTTACK


Sl. No	Name of embankment	Length	Tahasil	Date of verification
1.	Mahanadi Right Embankment with Kaligiri Right & Rana	40.00 K.M + 5.5 K.M + 7.00 K.M.	Banki, Dampada	27.04.2023



Superintending Engineer,
Khurda Irrigation Division,
Khurda

**ABSTRACT OF EMBANKMENTS UNDER KHURDA IRRIGATION DIVISION, KHURDA
IN CUTTACK DISTRICT**

Sl.No	Type of embankment	Length in Km
1	Capital	40.00
2	O.A.E	12.50
3	T.R.E	-
4	Saline	-
Total		52.50


Superintending Engineer
Khurda Irrigation Division
Khurda


DETAILS STATUS OF THE EXISTING RIVER / SALINE EMBANKMENTS

CUTTACK DISTRICT


NAME OF THE SUB-DIVISION; KHURDA & SALIA IRRIGATION SUB-DIVISION.

No	Name of the Embankment	Category o the Embky.				Length in KM	Name of the Basin	Name of the River	District	Reach	Status of the Embankment (Reach wise)					Brief description about defficiency in parameters
		C.E	O.A.E	T.R.E	S.E						TBL "m"	Side Slope	Top width "m"	Revetment packing "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
	Mahanadi right embankment	CE				40.00	L.M.B	Mahanadi	Cuttack	00 to 0.20km	43.80km to 43.40km	(1:5:1)	3.60 to 4.00		0.20km	
										0.20 to 4.80km	43.40 to 42.12	(1:5:1)	3.60 to 5.00	200 to 500	0.260, 0.340 & 0.460km	
										4.80 to 12.60km	42.40 to 40.30	(1:5:1)	3.00 to 3.50	4800 to 5150, 6200 to 6700, 8000 to 8200, 9000 to 10700, 11300 to 11500 & 11500 to 12600	11.00, 11.40, 11.60, 11.80, 12.00 & 12.20km	
										12.60 to 13.50km						Gap
										13.50 to 24.50km	39.60 to 39.40km	(1:5:1)	2.80 to 3.50	13.500 to 15.300, 23.000 to 24.000	14.20, 14.35, 14.55, 20.04, 20.80, 21.20, 21.40, 21.00, 21.60, 21.80, 21.90, 22.00 & 22.20km	
										24.50 to 24.585						Gap
										24.585 to 26.10	36.50 to 37.60km	(1:5:1)	5.00			
										26.10 to 26.40						Gap
										26.40 to 27.10	36.50 to 37.60km	(1:5:1)	2.80 to 3.50			
										27.10 to 28.00						Gap
										28.00 to 28.90	35.50 to 36.50	(1:5:1)	2.50 to 3.50	28000 to 28500		
										28.90 to 29.10km						Gap
										29.10km to 30.10km	35.50 to 36.50km	(1:5:1)	3.00 to 4.00			

									3010 to 40.00					38.50, 38.70, 38.90 & 39.10, 39.50, 39.70km	
2	Rana left embankment		OAE		3.50	L.M.B	Rana	Cuttack	00 to 3.50km	38.20 to 38.80	(1:5:1)	2.20 to 3.20	00 to 500m		Resectioning with earth work and packing is required .
	Ranaright embankment embankment		OAE		3.50	L.M.B	Rana	Cuttack	00 to 3.50km	37.50 to 38.20	(1:5:1)	2.20 to 2.50	00 to 500m		Resectioning with earth work and packing is required
	Kaligiri right embankment near Krushnapalli		OAE		3.50	LMB	Kaligiri	Cuttack	00 to 2.00km	40.10 to 40.26	(1:1.5)	2.50 to 3.00			Design TBL 41.37M. Earthwork, packing on river- side required
								Cuttack	2.00 to 3.50km	39.80 to 40.10	(1:1.5)	2.20 to 2.50			Design TBL 40.52M. Earthwork, packing on river- side required
5	Kaligiri right embankment from Bye-pass road to Krushnapalli		OAE		2.00	LMB	Kaligiri	Cuttack	00 to 2.00km	39.70 to 40.10	(1:1.5)	2.30 to 3.00			-do-
Total					52.50										


 Additional Chief Engineer
 Central Irrigation Circle
 Bhubaneswar-12
Countersigned


 Collector, Cuttack


 Superintending Engineer
 Khurda Irrigation Division
 Khurda