




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 2021-22

Executive 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


5-5-2021
Executive 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 of the Embky.				Length in KM	Name of the Basin	Name of the River	District	Reach	Status of the Embankment (Reach wise)					Remarks
		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	-	-	Embankment now in good condition. Steps will be taken as and when required to protect the embankment
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		-do-
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			-do-
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			-do-
5	Hada left embankment 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			-do-
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		-do-
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		-do-
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			-do-
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		-do-
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		-do-
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		-do-
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			-do-
									Khurda	4.50km to 7.50km	3.20	(1:3:1)	3.00 to 3.50			-do-
13	Block-1 saline gherry				SE	7.50			Khurda	00km to 7.50km	3.20	(1:5:1)	4.00 to 4.50			-do-

									5.80km to 7.50km	3.20	(1.5:1)	3.00 to 3.50			-do-
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			-do-
15	Block-III saline gherry			SE	10.50	L.M.B		Khurda	1.80km to 7.80km	3.2	(2:1)	3.60			-do-
									7.80 to 10.50km	2.80 to 3.00	(1.5:1)	3.00 to 3.60			-do-
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			-do-
17	Subhadrapur cross saline gherry			SE	5.19	L.M.B		Khurda	00km to 5.19km	3.20	(1.5:1)	5.00			-do-
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			-do-
									1.70km to 3.30km	3.00 to 3.50	(1:3)	3.00 to 3.20			-do-
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		-do-
									2.10km to 2.61km	2.90m	(1.5:1)	3.60m	Both side packing upto 2500m		-do-
									2.61km to 3.50km	2.00m to 2.50m	(1:1)	2.50m to 3.00m			-do-
									3.50 to 4.50km	2.50m to 3.00m	(1:1)	2.50m to 3.00m			-do-
									4.50 to 5.70km	3.00m	(1.5:1)	3.60m	Both side packing		-do-
									5.70km to 6.70km	2.00m to 2.50m	(1:1)	2.50m to 3.00m			-do-
20	Block -III Cross gherry			S.E	2.00	LMB	Chilika	Khurda	00 to 2.00km	2.00	(1:1)	1.5			-do-
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			-do-
									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		-do-

	Saline embankment from Scran to Kalupadaghat and Balinasi								00 to 0.40km	2.00	1:1	3.00					-do-
									0.40 to 2.50km	NSL							-do-
									2.50 to 2.605km	2.00	1:1	3.00					-do-
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				-do-
									Khurda	0.78 - 2.51km	9.86-9.00	1:1.50	3.20-4.00	25m near Naikulapatna			-do-
									Khurda	3.24 - 4.27km	8.63-7.60	1:1.50	3.80-4.00				-do-
									Khurda	5.60 - 5.80km	6.90-7.05	(1:1.50)	3.40-4.50	120m at RD 5520m			-do-
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				-do-
									Khurda	1.68-6.365km	9.05-9.30	1:1.50	3.50-4.00				-do-
26	Hadapada Saradhapur embankment on Rajua right		OAE			4.20	LMB	Rajua	Khurda	00 - 2.50km	6.10	(1:1.5)	5.00				-do-
									Khurda	2.50- 4.20km	6.10 to 6.00	(1:1.5)	3.00 - 4.50	RD 2.52 to 3.04km			-do-
27	Malaguni left emabnkment 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				-do-
28	Ichhapur Gherry		OAE			2.50	LMB	Rajua	Khurda	(1:1.41)	4.50-4.89	(1:1.2)	1.80-3.30				-do-
										1.41-2.50	5.80-5.60	(1:1.5)	5.00				-do-
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			-do-
										0.54-1.28	6.00-5.80	(1:1.5)	3.60	R/s 0.54-1.22km			-do-
										1.28-2.07	5.80-5.70	(1:1.5)	3.80-5.00				-do-

			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			-do-
31	Dalahana na lah 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			-do-
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	-do-
									135 mtr to 378	12.91	1:1	-	-	No	-do-
									378 mtr to 407 mtr	12.69	1:1.5	2	CC concrete guard wall with Stone packing. 378 mtr to 407 mtr.	No	-do-
									407 mtr to 638 mtr	13.10	1:1	-		No	-do-
									638 mtr to 768mtr	12.66	1:1.5	2	638-768mtr	No	-do-
									768 mtr to 1290 mtr	12.2	1:1	-		No	-do-
									768 mtr to 1290 mtr	12.2	1:1	-	790 mtr to 945 mtr restored by dumping & packing	No	-do-
									1290 mtr to 2130 mtr	11.9	1:1.5	2	Right embankment Stone packed from 1290 mtr to 2085 mtr .	No	-do-
									2130 mtr to 2380 mtr	11.44	1:1.5	2	Left embankment from 2170 mtr to 2470 mtr		-do-

								2380 mtr to 2470 mtr	12.2	1:1.5	2	CC concrete guard wall with Stone packing. 2380 mtr to 2470 mtr.		-do-
								2470 mtr to 2785 mtr	11.25	1:1	2	Left embankment Stone packed fro 2650 mtr to 2785 mtr & Right embankment from 2610 mtr to 2756 mtr.	No	-do-
								2785 mtr to 2839 mtr	10.85	1:1	-	Left bank Concrete wall done	No	-do-
								2839 mtr to 3500 mtr	10.85	1:1	-		No	-do-
								3500 mtr to 3800 mtr	9.15	1:1	-		No	-do-
								3800 mtr to 6900 mtr	9.15	1:1	-	3515 to 3572 mtr left embankment completed	No	-do-
								6900 mtr to 7500 mtr	8.45	1:1			No	-do-
								7500 mtr to 8200 mtr	7.95	1:1			No	-do-
								8200 mtr to 8431	6.66	1:1			No	-do-
								8431 mtr to 8810	6.66	1:1			No	-do-
								8810-8900	7.56	1:1.5			No	-do-
								Total	138.72				No	

D
for
27/4/24
O.S.
K.L. Sengupta
M.V.C.

~~27/4/24~~
AEE
K.P. Subram

19/5/24
Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

Collector
Khurda


Executive Engineer
Khurda Irrigation Division
Khurda

DETAILS STATUS OF THE EXISTING RIVER / SALINE EMBANKMENTS

PURI DISTRICT

NAME OF THE DIVISION: KHURDA IRRIGATION DIVISION, KHURDA

Sl. No	Name of the Embankment	Category of the Embk.				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	
		3	4	5	6						7	8	9	10	11	
1	Malaguni left embankment from Golabai to Atharabatia	-	OAE	-	-	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 sluiceand 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	OAL			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 length 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.
19	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									

2
1st
29/4/24
08
R.F. Saha
K.S.S.

29/4/24
A.E.E
K.S.S.

19/5/2023
Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

Collector, Puri

29-4-24
Executive Engineer
Khurda Irrigation Division
Khurda

Joint verification report on Mahanadi right embankment of Mahanadi from Makundapur to Pathapur on dated 16.04.2021


Members Present:-

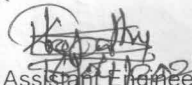
- 1) Sri Ranjan Kumar Jena , Sub-Collector, Banki
- 2) Sri Khitish Kumar Behera, Tahasildar, Dompada
- 3) Sri Kamadev Biswal, Asst. Executive Engineer, Khurda Irrigation Sub-Division, Khurda
- 4) Sri Srimant Kumar Tripathy, Asst. Engineer, Banki Irrigation Section, Banki

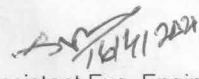
The joint verification of Mahanadi right embankment from village Makundapur to Pathapur is conducted on 16.04.2021. The total length is 15km in between village Makundapur to Bhagipur. Out of 15km there is existing flood bank in Mahanadi right is 7 km. The restoration work to river embankment near village Muraripur, Karabar, Jatamundia, Makundapur , Bhagipur completed in March, 2021.

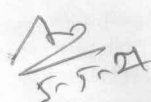
So from the joint verification, it is observed that all necessary protections have been taken of different points with stacking of sand and gunny bags so the Mahanadi right embankment from village Makundapur to Bhagipur will be safe from flood.

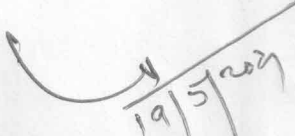

Sub-Collector,
Banki


Tahasildar
Banki-Dampada

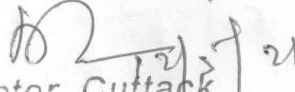

Assistant Engineer
Banki Irr. Section,,
Banki


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


Executive Engineer
Khordha Irrigation Division
KHORDHA


Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

Countersigned


Collector, Cuttack.

Joint verification report on Mahanadi right embankment of Mahanadi from Baideswar to Makundapur on dated 16.04.2021


Members Present:-

- 1) Sri Ranjan Kumar Jena , Sub-Collector, Banki
- 2) Sri Satya Ranjan Panda, Tahasildar, Banki
- 3) Sri Kamadev Biswal, Asst. Executive Engineer, Khurda Irrigation Sub-Division, Khurda
- 4) Sri Srimant Kumar Tripathy, Asst. Engineer, Banki Irrigation Section, Banki


The joint verification of Mahanadi right embankment from village Baideswar to Makundapur is conducted on 16.04.2021. The total length is 25km in between village Baideswar to Makundapur. Out of 25km there is existing flood bank in Mahanadi right is 24km. The restoration work to river embankment near village- Ramanath, Rajib, Botolama, Bedapur, Harirajpur, Makundapur are completed in March, 2021.


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 Makundapur will be safe from flood.



Sub-Collector,
Banki

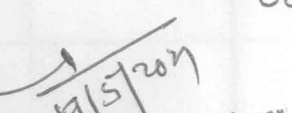

16.4.21
Tahasildar
Banki


Assistant Engineer
Banki Irr. Section.,
Banki


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


Executive Engineer
Khordha Irrigation Division
KHORDHA

Countersigned

Collector, Cutack


19/5/2021
Additional Chief Engineer
Central Irrigation Circle
Bhubaneswar-12

DETAILS STATUS OF THE EXISTING RIVER / SALINE EMBANKMENTS

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

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	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	
3	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	
4	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											

100% embankment verified. *50% of 100% embankment verified*
50% of 100% embankment verified
23-4-21
 Executive Engineer
 Khurda Irrigation Division
 Khurda

H. Pathy
 16/4/2021
 Assistant Engineer
 Banka Irrigation
 Section.

19/5/2021
 Additional Chief Engineer
 Central Irrigation Circle
 Bhubaneswar-12

Countersigned
19/5/21
 Collector, Cuttack