

OFFICE OF THE CHIEF ENGINEER & BASIN MANAGER
MAHANADI, BRAHMANI & BAITARANI SYSTEM, CHANDIKHOLE.
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File No. CE, MBBS/W/KID-3-32 /23-24

1483/WE

Dated- 17.05.2023

From:-

Er. Rohita Kumar Sethi,
Chief Engineer & Basin Manager,
Mahanadi, Brahmani & Baitarani System, Chandikhole.

To

The Engineer-in-Chief,
Water Resources Department,
Secha Sadan, Odisha, Bhubaneswar.

Sub:-


Submission of Embankment health status and joint verification report for the year 2023-24 under Jaraka Irrigation Division.

Sir,

In inviting kind reference to the subject cited above, the Embankment health status and joint verification report for the year 2023-24 under Jaraka Irrigation Division is received from the Superintending Engineer, Jaraka Irrigation Division, Jaraka & duly signed by the undersigned is submitted for favour of your kind information and necessary action.

Encl:- As above – 1 booklet

Yours faithfully,


Chief Engineer & Basin Manager, 23
Mahanadi, Brahmani & Baitarani System,
Chandikhole
15/5

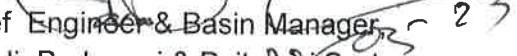
Memo No.

1484

/Dt-

17.05.2023

Copy forwarded to the Additional Chief Engineer, Eastern Circle-II, Chandikhole for information and necessary action with reference to his letter No. 1469/WE dt. 15.05.2023.


Chief Engineer & Basin Manager, 23
Mahanadi, Brahmani & Baitarani System,
Chandikhole
15/5

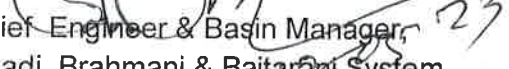
Memo No.

1485

/Dt-

17.05.2023

Copy forwarded to the Superintending, Jaraka Irrigation Division, Jaraka for information & necessary action with reference to his Memo No. 1695 dt. 09.05.2023.


Chief Engineer & Basin Manager, 23
Mahanadi, Brahmani & Baitarani System,
Chandikhole
15/5



**GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES**

**EMBANKMENT HEALTH STATUS
OF
JARAKA IRRIGATION DIVISION
JARAKA-2023**

**Superintending Engineer,
Jaraka Irrigation Division,
Jaraka.**

ABSTRACT OF EMBANKMENT

Sl.No.	Category	Length (in km)
1	CAPITAL EMBANKMENT	41.130
2	O.A.E.	126.988
3	T.R.E.	181.447
	TOTAL	349.565

KMM
9/19/23
Superintending Engineer
Jaraka Irrigation Division

DETAILS STATUS OF THE EXISTING RIVER/ SALINE EMBANKMENT

No.	Name of the Embankment	Category of the Embankment (in km)				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'	Slope	Top width 'm'		Revetment Packing 'm' with location	Spur/Bedbar in Nos. with location
1	Bedapur to Serpur			5.40		5.40	Brahmani	Brahmani	Jajpur		19.40	1.5:1	5.00	00 to 200 M		
2	Serpur OAE		3.40			3.40	Brahmani	Brahmani	Jajpur		17.47	1.5:1	5.00	900 M to 3300 M		
3	Mandaghai OAE		4.80			4.80	Kelua	Kelua	Jajpur	00 to 2900 M	19.40	1.5:1	5.80	1800m to 2100m	2 Nos Bedbar	Bedbars required renovation
4	Alishapatha Rahapada					3.80	Kelua	Kelua	Jajpur	2900 to 4800 M	17.20		4.80	3500m to 4300m		
5	Rahapada Mohanpur		5.497			5.497	Kelua	Kelua	Jajpur	00 to 1000 M	16.1	1.5:1	6.50	1000m to 1350m	4 Nos. bed bar near Arabal	Free board < 1.2 M
										2000 to 3800	16.8		6.50			
6	Kaitiha TRE on Brahmani left		1.60			1.60	Brahmani	Brahmani	Jajpur	00 to 1.60 Km.	24.2	1.5:1	6.00			
										1000 to 4000 M	16.5		6.50			
										4000 to 5497 M	15.62 to 15.30		6.50	4000m to 4300m		Free board < 1.2 M
7	Gopalpur Gherry					2.10	Brahmani	Brahmani	Jajpur		16.04	1:1	2.50			Raising & strengthening.
8	C.E No. 26 (A)		5.26			5.26	Kelua	Kelua	Jajpur		18.6	1.5:1	7.00	900 M from RD 2.50 Km. to 3.40 Km.	Spur 3 Nos. At RD 2.50 Km., 2.61 Km. & 2.72 Km.	
9	Brudhalinga Malhipada OAE		9.40			9.40	Brahmani	Kelua	Jajpur	00 to 6 Km. 6 to 9.4 Km.	17.8	1.5:1	6.00	500 m from RD 3.10 to 3.60 Km.		
10	Patilo Mundamal OAE		2.56			2.56	Mahanadi	Genguti	Jajpur		16.20	1.5:1	4.00	300 M from RD 1.90 Km. 2.20 Km.		
11	Nasidpur Hamzapur TRE		2.50			2.50	Brahmani	Sagadia Nalla	Jajpur	00 to 1.50 Km.	11.5	1.5:1	7.00	1300 M from 00 to 1360 M		
										1.50 Km. to 2.50 Km.	11.35	1.5:1	4.00			
12	Bhagabanpur Gherry		5.40			5.40	Brahmani	Kelua	Jajpur	00 to 3.4 Km.	16.00	1.5:1	5.50	Launching appron with packing 1078 M. to 1705 M.		
										3.4 to 4.5 Km.	16.00	1.5:1	5.00			
										4.50 to 5.4 Km.	15.20	1.5:1	4.00			

Bill No. 19/25

13	Matgunjar Gherry		0.50		0.50	Brahmani	Brahmani	Jaipur		21.00	1:1.5	3.00	500 (from RD 00 to 500 M both side)	4 Nos. (at RD 270 M, 370 M, 450 M & 540 M)	
14	Khapara Nallah		1.50		1.50	Brahmani	Khapar Nallah	Jaipur		21.20	1:1.5	3.60	200 M to 1450 M.		
15	Birbat TRE		2.10		2.10	Brahmani	Kuanria	Jaipur		20.30	1:1.5	2.00	600 M (right river side- 00-600 m)		Raising & strengthening with launching & packing required.
16	Baunsa Nallah		0.85		0.85	Brahmani	Baunsa Nallah	Jaipur		21.50	1:1.5	6.50	300 both side		
17	Chakua - Marthapur OAE	-	5.05	-	5.05	Brahmani	Patia	Jaipur	00 to 1.00km 1.00 to 2.00 km	25.4 24.83	2:1 2:1	6.00 6.00	RD 00 to 2700 mtr From Chakua to brahman gaon	1 One no old spur at RD 1300 Mtr near Jalaka	All the spurs requires renovation with repacking of existing spurs.
	Chakua - Marthapur OAE								2.00 to 3.00 km 3.00 to 4.00 km 4.00 to 5.05 km	24.51 23.97 22.23	1.5 : 1 1.5 : 1 1.5 : 1	6.00 6.00 6.00		5 (Five) nos Bed bar at RD 2450M, 2500 M, 2550M, 2600M, 2650M Near Khapuriapada	
18	CE No - 13A on Ganda Left	4.90	-	-	4.90	Brahmani	Ganda Nallah	Jaipur	00 to 1.00km 1.00 to 2.00 km 2.00 to 3.00 km 3.00 to 4.00 km 4.00 to 4.90 km	23.85 23.60 23.36 23.47 22.66	2:1 2:1 2:1 2:1 2:1	8.00 8.00 8.00 8.00 8.00	00 to 250 mtr Near Jokadia, 500 to 1000 mtr near Jagatpur, 2200 to 2300 mtr near Neil hari'		
19	Pahanga OAE	-	0.804	-	0.804	Brahmani	Kharasuan	Jaipur	00 to 0.804 Km.	21.3	1.5 : 1	4.50	120m packing 300m to 420m 200m on progress		
20	HLC Range - II (Right Bank)	Flood Embankment	11.00		11	Brahmani	Kharasuan	Jaipur	00 to 2.00km	21.9	1.5 : 1	5.00			Raising & strengthening.
									2.00 to 4.00 km 4.00 to 6.00 km 6.00 to 7.00 km 7.00 to 8.20 km 8.20 to 11.00 km	21.37 20.22 20.00 17.73 16.93	1.5 : 1 1.5 : 1 1.5 : 1 1.5 : 1 1.5 : 1	5.00 5.00 5.00 5.00 3.00			

Superintending Engineer

19/11/23

21	Santarapur TRE on Brahmani left			0.402		0.402	Brahmani	Brahmani	Jajpur	00 TO 0.402 Km	22.5	1.5 : 1	3.00			
22	Routarapur Gherry		1.00		1.00	Brahmani	Kharasuan	Jajpur	00 to 1.00 Km.	20.58	1.5 : 1	3.50	500 m from RD 00 to 500 m	05 Nos (Old Spurs) at RD 3750M,3810 M, 3870M,3950 M,4015 M near Routarapur		
23	CE No - 27A on Br. Right	16.89	-	-	16.89	Brahmani	Brahmani	Jajpur	00 to 2.70Km	29.15 to 28.10	1.5 : 1	7.00	0.75 to 1.15 Km. (1.65 to 2.70 Km. 1450 M)			
									2.70 Km to 8Km	28.10 to 25.60	1.5 : 1	5.00	4.50 Km to 5.35 = 850 M			
									8Km to 12Km	25.60 to 24.85	1.5 : 1	5.00	-			
									12Km to 16.89Km	24.85 to 23.30	1.5 : 1	5.00	-			
24	Marginal Embankment	-	-	12.07	-	12.07	Brahmani	Brahmani	Jajpur	00 to 12.07Km	23.00 to 20.18	1.5 : 1	7.00	-		
25	Pankapal TRE	-	-	1.22	-	1.22	Brahmani	Brahmani	Jajpur	00 to 1.219Km	25.50 to 24.30	1.5 : 1	4.00	500M (RD - 125M to 625M)	-	
26	Hartibari TRE	-	-	1.70	-	1.70	Brahmani	Brahmani	Jajpur	00 to 1.70 Km	25.50	1.5 : 1	5.00	500M (RD - 850M to 1350M)	-	
27	CE No - 17A on Patia Right	04.50	-	-	4.50	Brahmani	Patia	Jajpur	00 to 4.50Km	23.50 to 22.60	1.5 : 1	5.00	150M (RD - 0.24Km to 0.39Km) & 900M (RD - 3.20Km to 4.10Km)	-		
28	Jabra Escape embankment on Br. Left	-	1.20	-	1.20	Brahmani	Brahmani	Jajpur	00 to 1.20Km	23.18	1.5 : 1	5.00	900M (RD - 00 to 900M)	-		
29	QAE No - 188 on Br. Left	-	16.00	-	16.00	Brahmani	Brahmani	Jajpur	00 to 4Km	23.60 to 23.20	1.5 : 1	5.00	1200M (RD - 2.40Km to 3.60Km)	-		
									4Km to 8Km	23.20 to 22.30	1.5 : 1	5.00	600M (Near RD - 5Km to 5.40 & 7Km to 7.20Km)	-		
									8Km to 16 Km	22.30 to 20.10	1.5 : 1	5.00	600M (Near RD - 5Km to 5.40 & 7Km to 7.20Km)	-		

30	Sribantapur - Khanditara OAE	-	10.47	-	10.47	Brahmani	Kharasuan	Jajpur	00 to 10.47Km	22.40 to 20.10	1.5 : 1	6.00	1300M (RD - 0.78km to 2.08km)	-	-Raising & strengthening
31	Nanguan- Sanatriochanpur TRE on Chinda-Kharasuan	-	10.89	-	10.89	Brahmani	Kharasuan	Jajpur	00 to 5Km 5Km to 8Km 8km to 10.89 Km	21.10 to 20.60 20.60 to 20.05 20.05 to 19.65	1.5 : 1 1.5 : 1 1.5 : 1	3.00 3.00 2.50	- -	- - -	Raising & strengthening
32	Khanditara OAE	-	1.00	-	1.00	Brahmani	Kharasuan	Jajpur	00 to 1.00Km	22.35 to 21.90	1.5 : 1	5.00	-	-	
33	Paikarapur Gherry on Brahmani left	-	2.00	-	2.00	Brahmani	Brahmani	Jajpur	00 to 2.00 Km	20.35 to 20.10	1.5 : 1	2.80	500M (RD - 500M to 1000M)	-	
34	Kakudikuda Rudrapur TRE	-	6.23	-	6.23	Brahmani	Brahmani	Jajpur	RD 00 to RD 1.0 K m	16.48 to 16.18	1.5:1	5.50	288M (RD - 00M to 288M)	-	Launching packing near kakudikuda for a length of 200 M due to river closed to embankment.
									RD 1 km to RD2.0 Km	16.18 to 15.88	1.5:1	5.00	1.50 to 1.70km		
									RD 2 km to RD3.0 Km	15.88 to 15.58	1.5:1	5.00	250M near Mendha Harjansahi		
									RD 3 km to RD4.0 Km	15.58 to 15.28	1.5:1	5.00	RD 3000 m to RD3200 m =200 m		
									RD 4 km to RD5.0 Km	15.28 to 14.98	1.5:1	5.00	RD 4800 to RD 5000 m =200 m		
35	Udaypur OAE	-	2.00	-	2.00	Brahmani	Brahmani	Jajpur	RD 5 km to RD6.23 Km	14.98 to 14.68	1.5:1	4.00 to 5.50	500M (4.600 to 5.100km)		
									RD 00 to RD 1 km	14.67 to 14.37	1.5:1	4.00 to 5.50	RD 00 to RD 715 m =715 m	7	
									RD 1 km to RD 2 km	14.37 to 14.07	1.5:1	4.00 to 5.50	RD 1050 to RD1100 m =50 m 367M on U/S & D/S of spurs		
16	Udaypur Arual TRE	-	6.12	-	6.12	Brahmani	Brahmani	Jajpur	RD 00 to RD 1 km	14.37 to 14.07	1.5:1	5.00	RD 900 to RD 1000 m = 100 m & 00 M. to 104 M. = 204 M.		Launching packing near Harjian sahi at RD 5800 M due to river closed to embankment.

KM 21/128

40	OAE 20 B	2.00	2.00	Brahmani	Brahmani	Jaipur	RD 00 to RD 1.0 K m	RD 4 km to RD 5.0 K m	10.82	1.5:1	5 to 5.5	RD 1900 to RD 2040 m=140 m	0	Dumping & packing at RD 1.20 Km. for a length of 200 M due to river closed to embankment.
								RD 5 km to RD 6.16 K m	10.72 to 10.62	1.5:1	5 to 5.5			
								RD 1 km to RD 2.00 K m	10.52 to 10.42	1.5:1	4.00			
41	OAE 21 B	2.00	2.00	Brahmani	Brahmani	Jaipur	RD 00 to RD 1.0 K m	RD 1 km to RD 2.00 K m	10.42 to 10.32	1.5:1	4.00 to 5.00	RD 1700 to RD 2000m=300 m =200 m	0	
								RD 1 km to RD 2.00 K m	10.32 to 10.22	1.5:1	5.00 to 5.50			
								RD 1 km to RD 2.00 K m	18.18 to 17.88	1.5:1	5.00			
								RD 2 km to RD 3.530 K m	17.88 to 17.41	1.5:1	5.00			
42	OAE 16 B	3.53	3.53	Kharasuan	Kharasuan	Jaipur	RD 00 to RD 1.0 K m	RD 1 km to RD 2.00 K m	17.88 to 17.41	1.5:1	5.00	RD 2900 to RD 3050 m =150 m	0	
								RD 2 km to RD 3.0 K m	17.01 to 16.81	1.5:1	5.00			
								RD 3 km to RD 4.0 K m	16.81 to 16.61	1.5:1	5.00			
								RD 4 km to RD 5.0 K m	16.61 to 16.41	1.5:1	5.00			
43	OAE 15 B	7.74	7.74	Kharasuan	Kharasuan	Jaipur	RD 00 to RD 1.0 K m	RD 1 km to RD 2.0 K m	17.41 to 17.01	1.5:1	5.00	RD 00 to RD 100 m =100 m	2	Embkt. Packing required
								RD 2 km to RD 3.0 K m	17.01 to 16.81	1.5:1	5.00			
								RD 3 km to RD 4.0 K m	16.81 to 16.61	1.5:1	5.00			
								RD 4 km to RD 5.0 K m	16.61 to 16.41	1.5:1	5.00			
4	OAE 13 B	3.67	3.67	Kharasuan	Kharasuan	Jaipur	RD 00 to RD 1 km K m	RD 1 km to RD 2.0 K m	15.87 to 15.47	1.5:1	5.00	RD 1700-2000m	4	Renovation required
								RD 6 km to RD 7.74 K m	16.21 to 15.87	1.5:1	5.00			
								RD 5 km to RD 6.00 K m	16.41 to 16.21	1.5:1	5.00			
								RD 4 km to RD 5.0 K m	16.61 to 16.41	1.5:1	5.00			

29	Bandhapada Rajapur TRE		2.00	2.00	Brahmani	Dudhei	Jajpur	RD 00 to RD1.0 km	11.5 to 11.4	1.5:1	3.60	RD4466 to RD5698m =1232 m	
								RD 1 km to RD2 km	11.4 to 11.3	1.5:1	3.60		
30	Badudipadia TRE		1.46	1.46	Brahmani	Chandua	Jajpur	RD 00 to RD1.46 km	11.5 to 11.4	1.5:1	3.60	RD0.100 to RD1.00 Km =900 m	
								RD 1 km to RD2 km	11.4 to 11.3	1.5:1	3.60		Launching and packing near harjan sahi for 180 m due to river closed to embankment.
31	Phulipur TRE		1.6	1.6	Brahmani	Balungapati ^a	Jajpur	RD 00 to 1.60 Km	11.5 to 11.4	1.5:1	3.60	RD750 to RD 1050 m=300 m	Raising & Strengthening of embankment
								RD 00 to 2.60 km	11.4 to 11.3	1.5:1	3.0 to 3.60		Raising & Strengthening of embankment
32	Karanimala TRE		2.1	2.1	Brahmani	Dudhei	Jajpur	RD 00 to 1 km	11.5 to 11.4	1.5:1	3.60 to 4.00	RD250 to RD 550 m=300m	
								RD 00 to 2 km	11.4 to 11.3	1.5:1	3.60 to 4.00		
33	Badapala bodua TRE		1.2	1.2	Brahmani	Dudhei	Jajpur	RD 00 to 1.20 km	12 to 11.5 m	1.5:1	4.50	RD100 to RD 500 m= 400m	
34	Karasahi Gherry		1.00	1.00		Kharasuan	Jajpur	RD 00 to 1 km	18.01	1.5:1	2.00		
35	Karangaon Gherry		1.87	1.87		Kharasuan	Jajpur	RD 00 to 1.87 km	16.8	1.5:1	3.50	150 m	
36	Kadambhipala college Gherry on Br. Left		0.6	0.6	Brahmani	Brahmani	Jajpur	RD 00 to 0.6 km	11.5	1.5:1	2.00	100 m	
37	Serapur Sahapada		3.86	3.86	Brahmani	Brahmani	Jajpur	00 to 1400 m	15.90	1.5:1	5.50		Raising & strengthening required
								1400 to 3800 M	15.60	1.5:1	2.50		
38	OAE No. 18 (B) 16 to 24 Km.		8.00	8.00	Brahmani	Brahmani	Jajpur		18.7	1.5:1	6.00	3100 M from RD 16.00 Km. to 19.10 Km.	
39	Hatasahi Ganeshpatri Gherry		2.25	2.25	Brahmani	Brahmani	Jajpur		16.58	1.5:1	3.00		Raising & strengthening
40	Samantarapur Gherry		0.82	0.82	Brahmani	Brahmani	Jajpur		16.37	1.5:1	3.00	200 M from RD 300 to 500 M.	
1	Birahampur Kakudikuda TRE		6.338	6.338	Brahmani	Brahmani	Jajpur	00 TO 2.40 Km.	16.8	1.5:1	5.00	200 M.	
								2.40 to 3.60 Km.	16.1	1:1	2.50		
								3.60 to 6.338 Km.	16.7	1.5:1	5.00		

KM 2/1/23

Kamalganj Paltpur TRF on Birupa left	9.03	9.03	Mahanadi	Birupa	Jaipur	6.00 to 7.00 Km.	11.90	1.5:1	5.00	400 M from RD 6.00 to 6.400 Km.	2nos. Spur 3.80 to 4.80 (Near Bengapur) (Freeboard<1.20 m)
						7.00 to 8.00 Km.	11.50	1.5:1	4.50	7.950 to 50m 8.00 & 7.50 M. to 7.60 M	5 nos. spur 7.30 to 7.50 with launching and packing required (Free- board<1.20m)
						00 to 1.00 Km.	11.00	1.5:1	3.60	00 M to 600 M.	3 nos spur (Freeboard<1.20 m)
						1.00 to 2.00 Km.	11.25	1.5:1	5.50	350 M from RD 1.00 to 1.350 Km.	
						2.00 to 3.00 Km.	11.00	1.5:1	5.00	Packing from 2.00 to 3.00 Km. right side	3 Nos. bed bar with launching and packing required
						3.00 to 4.00 Km.	10.75	1.5:1	5.00		River side ditch filling with launching and packing required
						4.00 to 5.00 Km.	10.60	1.5:1	4.00		River bank launching and packing required
						5.00 to 7.50 Km.	9.00	1.5:1	5.50	RD 5.70 to 6.80 Km.	2 Nos damaged Bed bar with launching from RD.2.1 to 2.7 Km.
						7.50 to 9.03 Km.	9.00 to 8.50m	1.5:1	4.00		Embkt. not completed due to land dispute. Raising & strengthening required.


 9/1/23
 Superintending Engineer
 Jarakka Irrigation Division

81	Kusei right flood embankment	9.96	9.96	Baitarani	Kusei	Jajpur	00 to 9.96 Km.	32.2	1.5:1	5.00	240M near Harikansa	4 Nos. damage bed bars	Required launching & packing with bedbars.
	41.130	126.988	181.447										

Note: Special drive such as watch & ward, night patrolling of 2(two) vulnerable points of flood embankments will be taken by this department during flood.

PM
6.5.2023
Asst. Executive Engineer
Chandikhole Irrigation Sub-Division
Chandikhole

PM
06.05.23
TABELDAR
DAIPAN

PM
6.5.2023
Assistant Executive Engineer,
Jaraka Irrigation Sub-Division
Jaraka

PM
6.5.23
Assistant Engineer
Jenapur Irrigation Section
Jenapur

PM
6.5.23
Assistant Engineer
Jenapur Irrigation Section
Jenapur

PM
6.5.23
Assistant Engineer
Jokadia Irrigation Section
Jokadia

PM
6.5.2023
Asst. Executive Engineer
Bari Irrigation Sub-Division
Bari

PM
6.5.23
Asst. Executive Engineer
Bari Irrigation Sub-Division
Bari

PM
6.5.
Asst. Executive Engineer
Bari Irrigation Sub-Division
Bari

PM
9/5/23
Superintending Engineer
Jaraka Irrigation Division
JARAKA

PM
9/5/2023
Additional Chief Engineer,
Eastern Circle-II, Chandikhole

PM
9/5/23
Chief Engineer
Baitarani & Barikani System
Chandikhole

COLLECTOR
JAJPUR