DEATAIL STATUS OF THE EXISTING RIVER / SALINE EMBANKMENT

NAME OF DIVISION :- MAHANADI SOUTH DIVISION

NAME OF SUB-DIVISION :- ERSAMA EMBANKMENT SUB-DIVISION

Sl. No.	Name of Emabkment	Category of Emabkment				Length in Km	Name of the Basin	Name of the River	Distict	Reach in Km	Status of Emabankment (Reach wise)					Brief description about defficiency in parameters
		C.E	O.A.E	T.R.E	S.E						TBL "m"	Side slope	Top width	Rivetment packing "m" with location	Spur in No with location	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Badpal to Nagarighat on Saulia Right				S.E.	14.90	Mahanadi	Saunlia	Jagatsingpur	1.00 to 12.00	3.00	01:01.5	2.70			SE need to be build up upto RL 3.00m where ever it is below this level and existing emabkments need to be protected against tidal erosion.
										12.00 to 14.90	2.70	01:01.5	2.50			
2	Badpal to Nagarighat on Saulia Left				S.E.	15.46	Mahanadi	Saunlia	-do-	0.00 to 11.00	3.00	01:01.5	2.50			River & Country side bank protection needed at
										11.00 to 15.45	2.70	01:01.5	2.50			RD 4.90 to 5.00 Km
3	Ersama to Nagarighat				S.E.	5.90	Mahanadi	Tigiria	-do-		2.80	01:01.5	2.70			
4	Japabhuan to Dhobei				S.E.	27.00	Mahanadi	Tigiria & Basulinala	-do-	1.00 to 5.00	2.80	01:01.5	2.50			SE need to be build up upto RL 4.50m where ever it is below this level.
										5.00 to 11.50	3.00	01:01.5	2.80			River side bank protection needed at
										11.50 to 13.40	2.70	01:01.5	2.80	1195m from RD 11.50 to 12.50Km & 16.90 to 17.20Km		RD 5.00 to 6.00 Km
										13.40 to 14.40	3.00	01:01.5	2.80			RD 10.50 to 11.00 Km
										14.40 to 15.00	2.30	01:01.5	2.50			RD 12.50 to 15.50 Km
										15.00 to 21.00	3.00	01:01.5	2.80			RD 19.50 to 20.60 Km
										21.00 to 27.00	2.80	01:01.5	2.80			
5	Irribina to Nuaratnapur				S.E	14.20	Mahanadi	Basulinala	-do-	0.00 to 7.00	3.00	01:01.5	2.80	590m at RD 10.150 to 10.350Km &		River side bank protection needed at

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										7.00 to 11.50	2.70	01:01.5	2.80	RD 9.50 to 9.80 & 9.84 to 9.93Km		RD 7.500 to 7.700 Km
										11.50 to 14.20	3.00	01:01.5	2.80			RD 9.00 to 13.200 Km
6	Irribina to Mahimadeipur				S.E	2.20	Mahanadi	Brudha	-do-		3.50	01:01.5	3.00			
7	Garadmal drainage Cut				S.E	2.20	Mahanadi	Garadmal	-do-		2.80	01:01.5	2.50			River side bank protection needed at RD 0.00 to 0.300Km
8	Bargudipada to Khatikolda				S.E	22.60	Mahanadi	Alka	-do-	0.00 to 5.20	3.00	01:01.5	3.00			SE need to be build up upto RL 4.50m where ever it is below this level.
										5.20 to 10.00	2.70	01:01.5	2.00			River side bank protection needed at
										10.00 to 10.50	6.00	01:01.5	3.66	500m at RD 10.00 to 10.50Km		RD 14.00 to 20.00 Km
										10.50 to 14.90	2.60	01:01.5	2.50			RD 9.00 to 10.00Km
										14.90 to 17.20	2.70	01:01.5	3.60			
										17.20 to 22.60	2.80	01:01.5	2.50			
9	Harishpur (East)				S.E.	15.60	Mahanadi	Maguria & Kamapaka	-do-	0.00 to 0.915	4.00	01:01.5	3.00			
										2.00 to 3.655	6.00	01:01.5	3.66	1655m at RD 2.90 to 3.655Km		River side bank protection needed at
										3.655 to 7.20	3.00	01:01.5	2.70			RD 9.00 to 13.00Km
										7.20 to 15.60	2.70	01:01.5	2.50			
10	Harishpur (West)				S.E.	15.80	Mahanadi	Sankha	-do-	0.00 to 3.85	6.00	01:01.5	3.66	3585m at RD 0.00 to 3.585Km		SE need to be build up upto RL 4.50m at other reaches, where ever it is below this level.
										3.85 to 15.80	3.00	01:01.5	3.00	500m from RD 12.00 to 12.500Km		River side bank protection needed at RD 6.00 to 7.00Km & 10.00 to 15.30Km
11	Ramatara Gherry				S.E.	9.40	Mahanadi	Maguria	-do-	0.00 to 1.880	2.70	01:01.5	2.50			
										1.880 to 2.270	3.00	01:01.5	3.00			
										2.27 to 3.620	2.50	01:01.5	3.00			
										3.620 to 4.120	3.00	01:01.5	2.50			
										4.120 to 7.20	2.50	01:01.5	2.50			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
12	Ambiki to Kankan				S.E.	13.68	Mahanadi	Jagadhari & Baransula	-do-	0.00 to 0.20	2.60	01:01.5	2.70	3000m at Kankan		SE need to be build up upto RL 4.50m where ever it is below this level.
										0.20 to 1.70	3.00	01:01.5	2.80	RD 0.20 to 1.7Km		River side bank protection needed at
										1.70 to 5.00	2.60	01:01.5	2.50	RD 3.60 to 4.20Km		RD 1.70 to 3.60Km
										5.00 to 13.68	3.00	01:01.5	2.80	RD 5.40 to 6.30Km		RD 4.20 to 5.40Km & RD 6.30 to 8.00Km
13	Nagarighat to Ambiki				S.E.	4.20	Mahanadi	Ambiki	-do-	0.00 to 0.90	3.00	01:01.5	2.80			SE need to be build up upto RL 4.50m
										0.90 to 4.20	2.60	01:01.5	2.50			River side bank protection needed at RD 1.00 to 3.00Km
14	Nuaratnapur to Guamunda				S.E	2.48	Mahanadi	Mahanga	-do-	0.00 to 1.25	3.00	01:01.5	3.50	200m from RD 1.00 to 1.20Km		River side bank protection needed at RD 1.25 to1.75Km
										1.25 to 2.48	2.70	01:01.5	3.50			SE need to be build up upto RL 4.50m
15	Trilochanpur to Gadakujanga				S.E.	11.95	Mahanadi	Mahanga	-do-	0.00 to 0.40	2.60	Village area				SE need to be build up upto RL 3.00m where ever it is below this level.
										0.40 to 2.60	2.80	01:01.5	3.00			River side bank protection needed at
										2.60 to 3.60	2.6	Village area				RD 6.50 to 8.50Km
										3.60 to 11.50	2.70	01:01.5	3.00			RD 9.50 to 11.50Km
16	Fatepur to Guamunda				S.E	13.58	Mahanadi	Mahanga	-do-	0.00 to 2.40	3.00	01:01.5	3.00			SE need to be build up upto RL 4.50m where ever it is below this level.
										2.40 to5.50	2.80	01:01.5	3.00			-do-
										5.50 to 6.50	2.20	01:01.5	2.50			-do-
										6.50 to 8.50	3.00	01:01.5	3.50			-do-
										8.50 to 9.00	No embakment exists					-do-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										9.00 to10.25	3.00	01:01.5	3.50			-do-
										10.25 to 13.58	2.80	01:01.5	3.50			-do-
17	Jhimani to Bhitagargh (4.69km handed over to PPL)				S.E	4.00	Mahanadi	Santora	-do-		3.00	01:01.5	3.00			River side bank protection needed at RD 2.00 to 3.00Km
18	Jokker Gherry				S.E	5.00	Mahanadi	Mahanga	-do-	0.00 to 1.50	2.80	01:01.5	3.50			SE need to be build up upto RL 4.50m where ever it is below this level.
										1.50 to 2.00	2.50	01:01.5	2.50			Emankemt on River side need tobe protected .
										2.00 to 2.40	2.80	01:01.5	2.80			
										2.40 to 2.90	1.80	01:01.5	1.50			
										2.90 to 5.00	3.00	01:01.5	2.80			
19	Bhuyanpal Gherry				S.E	4.50	Mahanadi	Mahanga	-do-	0.00 to 3.20	1.80	01:01.5	1.20			SE need to be build up upto RL 4.50m where ever it is below this level.
										3.20 to 4.50	2.80	01:01.5	2.50			River side bank protection needed at RD 0.00 to 4.50Km
20	Haldipani Afflux Bandha				S.E.	5.00	Mahanadi	Santora	-do-		2.50	01:01.5	2.50			
21	Irribina to Madhuagandha on Basulei left			TRE		1.68	Mahanadi	Basulei	-do-		2.00	01:01.5	1.50			
22	Irribina to Madhuagandha on Basulei right			TRE		1.20	Mahanadi	Basulei	-do-		2.00	01:01.5	1.50			
23	Japa Afflux Bund Irribina to Chandpur			TRE		2.50	Mahanadi	Tigiria	-do-		2.00	01:01.5	1.50			
24	Japa Afflux Bund Chandpur to Japa on Tigiria left			TRE		5.00	Mahanadi	Tigiria	-do-		3.00	01:01.5	2.80			
25	Japa Afflux Bund Chandpur to Japa on Tigiria lright			TRE		5.00	Mahanadi	Tigiria	-do-		3.00	01:01.5	2.80			
26	Ersama to Kimilo			TRE		4.90	Mahanadi	Sankhamari	-do-		3.00	01:01.5	2.50			
27	Dharijan to Dalua Timinda			TRE		6.50	Mahanadi	Dalua	-do-		2.80	01:01.5	2.00			
28	Ghasaghar to Patua			TRE		8.00	Mahanadi	Gaiparia	-do-		2.00	01:01.5	1.50			
29	Sahadabedi to Garadmal			TRE		2.50	Mahanadi	Garadmal	-do-		2.00	01:01.5	1.50			
30	Kalabedi Gherry			TRE		1.20	Mahanadi		-do-			01:01.5				
31	Kadalighana Gherry left bank			TRE		1.44	Mahanadi		-do-		2.00	01:01.5	1.50			
32	Kadalighana Gherry right bank			TRE		1.60	Mahanadi		-do-		2.00	01:01.5	1.50			
	Sub Total					**251.17**										

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	C.E.No.78 (A) on Mahanadi right	C.E.				17.70			Mahanadi	Mahanadi		Jagatsinghpur				RD.63.18Km to 65.50
																RD.65.50km to 67.00
																RD.67.00km to RD. 71.00km.
																RD.71.00km to
																RD.75.00km to 77.00
																RD.77.00km to 79.00
																RD.79.00km to 80.88
2	C.E.No.78 (A) on Mahanadi right from Singitali to Musadiha	C.E.				5.60			Mahanadi	Mahanadi		Jagatsinghpur				RD.0.00km to 5.600
3	Badapal Gherry on Mahanadi right embankment		OAE			0.30			Mahanadi	Mahanadi		Jagatsinghpur				RD.0.00mtr. to 300.00
4	Phulbarei Gherry on Mahanadi right embankment		OAE			0.70			Mahanadi	Mahanadi		Jagatsinghpur				RD.500.00mtr. to 1200.
5	Udayabatta to Bijayachandrapur		OAE			2.33			Mahanadi	Mahanadi		Jagatsinghpur				RD.00.mtr to RD.2.59
	Sub -Total			**0.00**		**26.63**		26.63								

NAME OF THE SUB-DIVISION :- JOBRA IRRIGATION SUB-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)					Brief description about defficiency in Parameter
		C.E. / C.P.E	O.A.E.	T.R.E	S.E.						TBL in 'M'	Side Slope	Top width in 'M'	Revetement packing 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
	SECTION NO I															
1	C.E. No. 83(B) on Kathajori left	C.E.				5.47	Mahanadi	Kathajori	Cuttack	0.00 to 3.00	24.95/24.5	1 : `1.5	5.00	00km to 1.10km-(Both side =1.10Km, 1.680 Km to 2.180Km =0.50 Km (R/S)	Nil	From RD3.20km to 4.00km avg. raising of 0.45m required. For balance length 1.20M. free board above HFL: 2008 is available
										3.00 to 5.47	24.55/22.7	1 : `1.5	3.00		Nil	The embankment to be widened up to 5.0m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2	Poparada Gheery		OAE			1.10	Mahanadi	Kathajori	Cuttack	00 to 1.10km	4.50 /23.9	1 : `1.5	7.00		Nil	Widening upto 5.00mtr with river side packing for entire length is required.1.20Mtr. Free board above HFL: 2008 is available
3	C.E. No. 85(B) on Kathajori left	C.E.				10.38	Mahanadi	Kathajori	Cuttack	0.00 to 1.00	23.48	1 : `1.5	6.00	0.30km to 0.31km- Both side	Nil	Work in progress under NABARD assistance for raising & strengthening, launching appron and revetment packing from RD0.500km to 1.070km and 4.35km to 4.80km. On completion of NABARD project TBL will be maintained 1.20M.above HFL 2008, side slope of 1 : 1.5 and top width of 5.50M.
														0.67km to 1.05km-Right side		
														0.81km to 1.08km-Left side		
										1.00 to 2.00 Km	23.21	1 : `1.5	6.00	1.26km to 1.39km-Left side	Nil	
														1.26km to 1.45km-Right side		
														1.50km to 1.60km-Left side		
														1.50km to 1.55km-Right side		
										2.00 to 3.00	22.88	1 : `1.5	6.00	1.76km to 1.79km-Left side	Nil	
													6.00	2.48km to 2.49km-Left side	Nil	
										3.00 to 4.00	22.79	1 : `1.5	6.00	3.96km to 4.05km-Left side		
										4.00 to 5.00	22.54	1 : `1.5	6.00	4.53km to 4.74km-Right side	Nil	
										5.00 to 6.00	22.49	1 : `1.5	6.00		Nil	
										6.00 to 7.00	22.31	1 : `1.5	6.00		Nil	
										7.00 to 8.00	21.79	1 : `1.5	6.00		Nil	
										8.00 to 9.00	21.57	1 : `1.5	6.00		Nil	
										9.76 to 10.38	21.24	1 : `1.5	6.00		Nil	
4	CPE No 79(A) Mahanadi right embankment from Chahat to	CPE				9.60	Mahanadi	Mahanadi	Cuttack	0.00 to 8.00	27.33/23.7	1:2	17.90	River side packing from	Three Nos of	No defficiency from RD 0.00 to 8.00 Km
										8.00 to 9.60	23.74/23.2	1:2	7.00			
5	CPE No 83(B) on Kathajodi	CPE				8.65	Mahanadi	Kathajodi	Cuttack	0 .00 to 4.100	27.33/26.3	1:2	17.90	River side	2 Nos	No defficiency.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Left embankment from Chahat to Press Chhak. (RD 00 to									4.100 to 5.200	26.30/25.7	1:2	9.70	packing from R.D. 0.00 K.M	spurs at RD 6.30	1.20M. free board above HFL: 2008 is
										5.200 to 8.65	25.79/23.6	1:2	17.90			
6	Capital Embankment No 78(A) on Mahanadi Right Embankment from Gandhipalli to Gatirautapatana. (From R.D 0.0 K.M to 5.00 K.M)	CE				5.00	Mahanadi	Mahanadi	Cuttack	0.00 to 5.00	23.14/21.8	(1:1.5)	5.50	River side packing from R.D. 0.420 K.M to 2.217 K.M,from RD 4.685 KM to 4.810 Km = 1922 M,Launching from RD 0.00 Km to 600 M	8 Nos of spurs at RD 0.00 km,RD 0.400 Km,RD 2.40 Km ,2.60 KM,RD 4.815 Km , 4.865 Km,RD 4.915 Km, 4.965 Km.	Launching appron and bed bars to be provided for scoured portion near Kanheipur,Bhadimul and Gatiroutpatna. 1.20M. free board above HFL: 2008 is available

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
7	OAE No 95 (B) on Surua left embank from RD 00 to 16.00 km		OAE			16.00	Mahanadi	Surua left	Cuttack	0.00 to 16.00	23.13/20.2	1:1.5	5.50	RD 0.00 to 0.60 Km=600m (R/S),RD 0.00 to 0.270 Km =270 M(C/S),0.940 KM to 1.920 Km=980 M(R/S),1.380 Km to 1.920 Km=540 M(C/S),RD 3.410 Km to 3.560 Km=150m(R/S),	18 Nos of spurs at RD 5.550km,5.600 km,5.650km,6.00 km,6.050km,6.100 km,12.400 km,12.500km,12.550km,12.600km,12.650km, 12.700km,12.750km,12.800km, 12.850km,12.900km,12.950km, 13.225km.	Launching appron and bed bars to be provided for scoured portion near Taikana, Basanta kundala, Dhuleswar, Kuasarichuan and Korkora. 1.20M. Free board above HFL 2008 is available through out the entire length.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
														RD 3.100 to 3.180 Km=80m (C/S),3.690 to 4.300 Km=610m(R/S),5.330 to 6.195 Km=865m(R/S), 8.700 to 9.100 km=400m(R/S),9.740 to 10.00 Km=260m(R/S),9.975 to10.00km=25 m(C/S),10.400 km to 11.260km=860 m(R/S),11.880 to 12.040 km=160m(R/S),12.560 to 12.700 Km=140m(C/S),14.070 to 14.240 km=170m(R/S),14.800 to16.00 km=1200m(R/S),15.100 to 16.000km=900 m (C/S).	Launching appron from RD5.550km to 5.800km=250 m,6.000 to 6.150 km=150 m,9.900 to 9.96 km=60 m 12.400km to 13.225km=825 m	
8	OAE No 94 (B) on Kathajodi right embankment from RD 00 to 15.00 km		OAE			15.00	Mahanadi	Kathajodi right	Cuttack	0.00 to 9.00	23.13/21.6	1:1.5	5.50	RD 3.500 to 4.00Km=500m (R/S),RD 9.00 to 10.00 km=1000m(R/	11 Nos of spurs at RD 13.00 km, RD	On completion of NABARD project TBL will be maintained 1.20M.above HFL
										9.00 to 10.00	21.60/21.4	1:1.5	3.00			
										10.00 to15.00	21.43/20.4	1:1.5	5.50			
	Sub -Total					**71.20**										

Name of the Division:- Mahanadi South Division, Cuttack

Name of the Sub- Division:- Manijanga Irr. Sub - Division, Cuttack

Sl.	Name of the Embkt.	Category of the embkt.	Length	Name of the	Name of the	District	Reach	Status of the embankment (Reach wise)	Brief description

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
No		C.E./ CPE	OAE	TRE	S.E.	in Km	Basin	river			TBL'M	Side slope	Top width 'M'	Revetment Packing 'm' with location	spur in nos with location	about defficiency in parameters
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Paika right 62 (B)		OAE			27.85	Mahanadi	Paika	Jagatsinghpur	RD.00 Km to RD.10.00 Km	13.03/ 11.02	1:5.1	5.5	L.A from RD.1600M, 1800M, 559M to 6070m & 8900 to 9100m	4 Nos spur at RD 1600m 5620m, 8900m & 9000m	The embkt. has a free board of 1.20m above HFL 2011 from RD.00 Km to RD.10.00 Km R/S & Flood Control works has been taken up under RIDF - XVIII
										RD.10.00 Km to RD.14.60 Km	11.02 / 9.62	1:5.1	3.6			R/S work is required because free board of 0.6m above HFL 2011
										RD.14.60 Km to RD.15.50 Km	9.62 /8.8	1:5.1	4.00 to 2.1m			R/S work is required because free board of 0.30m above HFL 2011
										RD.15.50 Km to RD.18.40 Km	9.62 /8.83	1:5.1	4.0	L.A 15690M to 15890	1 no spur at 15690m	R/S work is required because free board of 0.60m above HFL 2011. Bank protection is required becuause the river has already been touched the embankment

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										RD.18.40 Km to RD.19.00 Km	8.83 /9.32	1:5.1	4.0			Free board of 1.20m above HFL 2011. from RD.10.00 Km to RD.19.00 Km R/S flood protection work is to be taken up under RIDF -XX provision has made for R/S height of the embkt. 1.20m above HFL 2011. The top width of the embankment has been to be made 5.50m. 5 no spur at RD.13.60 Km, 13.670 Km, 14.140 Km, 15.80 Km & 17.10 Km L/A to be constructed from 13.00 Km to RD.14.160 Km, 16.80Km, 17.28 Km 11.400 Km to 12.00 Km 15.940 km 16.300
										RD.19.00 Km to RD.21.300 Km	9.32 / 8.90	1:5.1	4.0	L.A. 2.75M from RD.18.325 Km to RD.18.600 Km		Free board of 1.20m above HFL 2011.
										RD.21.30 Km to RD.22.350 Km	8.90/ 7.71	1:5.1	3.6			Free board of 1.12 above HFL 2011.
										RD.22.350 Km to RD.22.850 Km	771/ 8.46	1:5.1	3.0	Slope packing 160m		R/S is required because of free board of 0.40 above HFL 2011.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										RD.22.850 Km to RD.23.610 Km	8.46 /7.56	1:5.1	2.8			R/S is required because of free board of 0.50 above HFL 2011. Bank protection is required as the river is closer to toe of the embkt.
										RD.23.610 Km to RD.24.18 Km	7.56/ 7.60	1:5.1	2.8			R/S is required because of free board of 0.50 above HFL 2011. Bank protection is required due to heavy scoure river Patha
										RD.24.18 Km to RD.25.550 Km	7.90/ 7.30	1:5.1	5.0			R/S is required because of free board of 0.65 above HFL 2011.
										RD.25.500 Km to RD.26.670 Km	7.30 / 6.99	1:5.1	2.8			R/S is required because of free board of 0.50 above HFL 2011.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										RD.26.670 Km to RD.27.840 Km	6.99 / 6.85	1:5.1	2.5			R/S is required because of free board of 0.50 above HFL 2011. R/S & flood control works from RD.19.01 Km to RD.27.840 to be taken up under RIDF - XX in which provision has been made to raise the embankment height 1.20m above and the top width of the embankment is 5.50m. 7 nos of new spur at RD.20.680 Km, 20.740 Km, 23.80, 23.870, 25.180, 25.240, 25.300. L.A from RD.20.130Km to RD.20.490 Km, 23.490, 23.730
2	Paika left embkt.61(B)		OAE			11.430	Mahanadi	Paika	Jagatsinghpur	RD.00 Km to RD.0.600 Km	9.79 / 8.96	1:5.1	3.0	L.A. from RD.2.00 Km to RD.2.150 Km	Spur at RD00 Km	R/S is required because of free board of 0.60 above HFL 2011.
										RD.0.60Km to RD.2.90 Km	9.76 / 9.01	1:5.1	4.50 to 5.00	Slope packing 300m from RD.2250M	Spur 4 No damage d spur from RD.230 0M, to 2600m	1.2m free board above HFL 2011
										RD.2.90 Km to RD.3.700 Km	8.61 / 8.66	1:5.1	3.00			R/S is required because no Free board considering HFL 2011.
										RD.3.700 Km to RD.4.490 Km	8.66 / 8.05	1:5.1	3.00			1.2m free board above HFL 2011

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										RD.4.490 Km to RD.5.160 Km	8.05 / 7.93	1:5.1	3.00			1.2m free board above HFL 2011
										RD.5.160 Km to RD.6.60Km	7.93 / 7.59	1:5.1	3.00			1.2m free board above HFL 2011
										RD.6.60 Km to RD.7.560Km	7.59 / 8.16	1:5.1	3.00	L.A 1no spur at 5.885		R/S is required because free board of 0.60m above HFL 2011.
										RD.7.560 Km to RD.11.430Km	8.16 / 8.13	1:5.1	5.00	850 m of L.A.		1.2m free board above HFL 2011
																The Raising & strengthening & flood control works from RD.00 Km to RD.11.430 Km is under progress under NABARD Assistance. Hence Raising a height of 1.20m above HFL 2011 the top width is made 5.5m const. of 1 no spur near RD.00 renv - 5 nos spur
3	Mahanadi left embankment 77(B)		OAE			25.35	Mahanadi	Mahanadi	Jagatsinghpur	RD.00 Km to RD.2.160 Km	12.380 / 11.290	1.5:1	2.5	-	3nos damaged spur from RD.0.82 Km to RD.1.10 Km	R/S is required because average free board of 0.6m above HFL 2011
										RD.2.160 Km to RD.3.120 Km	11.290 / 10.950	1.5:1	2.5	-	-	R/S is required because average free board of 0.30m above HFL 2011

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										RD.3.120 Km to RD.3.600 Km	10.950 / 10.910	1.5:1	3.5	-	-	R/S is required because average free board of 0.30m above HFL 2011
										RD.3.60 Km to RD.5.580 Km	10.910 / 10.390	1.5:1	3.6			R/S is required because average free board of 0.30m above HFL 2011
										RD.5.580 Km to RD.6.600 Km	10.390 / 10.450	1.5:1	4.00			R/S is required because average free board of 0.40m above HFL 2011
										RD.6.600 Km to RD.8.82 Km	10.450 / 10.390	1.5:1	4.00			R/S is required because average free board of 0.60m above HFL 2011 This work is to be taken up from RD.00 Km to RD.8.820 Km under RIDF -XX where the top width the embankement has been kept as 5.50m, & R/S the height of embkt.1.2m above HFL 2011. Const. of L.A from 00 Km to RD.800m ,6000m to 6300m & 3 nos of spur from RD.600M to 900M
										RD.8.820 Km to RD.10.08 Km	10.390 / 10.160	1.5:1	4.00			R/S is required because average free board of 0.60m above HFL 2011
										RD.10.082 Km to RD.12.480 Km	10.16/ 9.53	1.5:1	3.00		3 nos of damage spur	R/S is required because average free board of 0.60m above HFL 2011

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										RD.12.480 Km to RD.13.80 Km	9.53/ 8.960	1.5:1	3.00			R/S is required because average free board of 0.70m above HFL 2011
										RD.13.80 Km to RD.14.40 Km from	8.960 / 8.470	1.5:1	3.00		3 nos of damage spur	R/S is required because average free board of 0.40m above HFL 2011 & the spur to be renovated
										RD.14.40 to RD.17.110 Km	8.47 / 8.21	1.5:1	2.75		1 no of spur of RD.0.30 M	R/S is required because average free board of 0.40m above HFL 2011 The work is taken up from RD.8.82 Km to RD.17.110 Km is to be taken up under RIDF - XX Provision has been made for R/S the height of the embkt. 1.20m above HFL 2011& the top width 5.50m 6 nos spur at RD.9.00 Km to 9.300 Km & 13.900, 14.200 Km Const. L.A from RD.11.00 11.400 Km, 14.00 14.400, 14.900m
										RD.17.110 Km to RD.22.00 Km	8.21/ 8.25	1.5:1	2.50		2 no of spur at RD.20.30Km & RD.21.20 Km	R/S is required because average free board of 0.40m above HFL 2011 bank protection work is required in between 18.150 Km to RD.19.00 Km & 21.00 Km to 22.00 Km As river is very close to the embkt.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										RD.22.00 Km to RD.22.38 Km	8.25 / 8.16	1.5:1	3.00			R/S is required because average free board of 0.30m above HFL 2011
										RD.22.38 Km to RD.25.03 Km	8.16 / 8.26	1.5:1	5.50			R/S is required because average free board of 1.0m above HFL 2011
5	C.E. No..78(A) on Mahanadi right embankment	C.E.				24	Mahanadi	Mahanadi	Jagatsinghpur	RD.39.18 Km to RD.46.00 Km	13.10/ 12.54	1.5:1	7.0	-		R/S is required because average free board of 1.00m above HFL 2011
										RD.46.00 Km RD.50.00 Km	12.54 / 11.23	1.5:1	7.0	-		average free board of 1.20m above HFL 2011
										RD.50.00 Km RD.55.00 Km	11.23 /9.875	1.5:1	5.0	-		R/S is required because average free board of 0.65m above HFL 2011
										RD.55.00 Km RD.63.180 Km	9.875 / 8.874	1.5:1	5.0	Slope packing of 600m on both side of the embankment from RD.56.20 Km to 56.8		average free board of 0.65m above HFL 2011 bank protection work is required for scouring of Patha 820m from RD.61.90 Km RD.60.40 Km
6	Malasahi gherry on Mahanadi right embankment		OAE			1.5	Mahanadi	Mahanadi	Jagatsinghpur		9.87	1.5:1	2.50	-		R/S is required because average free board of 0.30m above HFL 2011
7	Teramanpur gherry on Mahanadi right embankment		OAE			2.5	Mahanadi	Mahanadi	Jagatsinghpur		9.42	1.5:1	2.50	-		R/S is required because average free board of 0.30m above HFL 2011
8	OAE on Hansua left embkt. from Jaipur to Badapal RD.41.60 to 67.65 Km		OAE			26.05	Mahanadi Devi Doab	Hansua	Jagatsinghpur	41.60 to 45.00	8.50	1.5:1	2.50			Average free board of 1.00m above HFL 2014
										45.00 to 58.00	6.50	1.5:1	2.00			No free board R/S is required
										58.00 to 62.00	4.50	1.5:1	2.00			No free board R/S is required

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
										62.00 to 63.00	5.50	1.5:1	4.00			Average free board of 1.00m above HFL 2014
										63.00 to 64.00	4.20	1.5:1	2.50			No free board R/S is required
										64.00 to 67.65	5.00	1.5:1	3.00			Average free board of 0.80 m above HFL 2014
	Sub - Total					**118.68**										

NAME OF THE SUB-DIVISION:- KISSANNAGAR IRRIGATION SUB-DIVISION.

Sl No.	Name of Embankment	Category of the Embkt.				Length in km.	Name of the Basin	Name of the River	District	Reach
		C.E	O.A.E	T.R.E	S.E					
1	2	3	4	5	6	7	8	9	10	11
1	C.E.No.78 (A) on Mahanadi right embkt.	C.E				34.18	Mahanadi	Mahanadi	Cuttack	RD 5.00km to 8.00km. (Gat to Nuakorua)
										RD 8.00km to 11.87km. (Ni
										RD 11.87km to 13.00km. (A
										RD 13.00km to 14.00km. (D
										RD 14.00 to 16.00km.(Bard
										RD 16.00km to 17.00km. (S
										RD 17.00km to 18.00km (N
										RD 18.00km to 19.00km
										RD 19.00km to 20.00km (Ki
										RD 20.00km to 22.00km (Ki
										RD 22.00km to 24.00km (Bl
										RD 24.00km to 25.00km (M
										RD 25.000km to 26.500km
										RD 26.500km to 28.00km (K
										RD 28.000km to 35.050km
									Jagatsinghpur	RD 35.05km to 39.18km (Ba
17	O.A.E on Sukpaika right embkt. From Ayatpur to Kamarpada		O.A.E			6.20	Mahanadi	Mahanadi	Cuttack	
18	O.A.E on Sukpaika right embkt. From Bodar to Kulasahi		O.A.E			14.00	Mahanadi	Mahanadi	Jagatsinghpur	
19	Damodarpur gherry		O.A.E			0.54	Mahanadi	Mahanadi	Cuttack	
20	Barda gherry		O.A.E			0.51	Mahanadi	Mahanadi	-do-	
21	Patrasahi Gherry			T.R.E		0.50	Mahanadi	Mahanadi	-do-	
22	Brahmankhanda Gherry			T.R.E		0.63	Mahanadi	-do-	-do-	
					Sub Total	**56.56**				