



**GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES**

**ANNUAL REPORT 2017-18
OF
PATTAMUNDAI CANAL DIVISION, KENDRAPARA**

Executive Engineer
Pattamundai Canal Division
Kendrapara

1. INTRODUCTION

A. Sub-Project Location

The Government of Orissa through the Government of India has availed a Multi-tranche Financing Facility (MFF) Loan from the Asian Development Bank (ADB) approved in Sept'2008 to partly finance the implementation of the Orissa Integrated Irrigated Agriculture and Water Management Investment Program (OIIAWMIP). The executing agency for the project is the Department of Water Resources (DOWR), Government of Orissa. The Pattamundai Irrigation Scheme is located in the flat, low-lying delta of the Mahanadi River. The scheme is supplied by the Kendrapara main canal, which offtakes from the Mahanadi Barrage at Cuttack. The command area is bounded by the Birupa-Brahmani rivers to the north and west, the Gobari nullah to the south and the Saluan nullah to the east. The 80.5Km long Pattamundai Canal runs parallel to the Birupa River for much of its length and inspection is facilitated by National Highway 5A and the Cuttack-Pattamundai road.

The canal command area is 32,720ha, which includes 2,778ha Birupa Gentuti Island Irrigation Scheme, which is not included under the proposed rehabilitation project.

B. Description of Existing Irrigation System

1. Existing Irrigation System

The Pattamundai Canal dates back to the mid-19th century and was originally built for both irrigation and navigation. However, when the locks fell into disrepair, navigation ceased and the canal is now used extensively for irrigation. The design capacity of the canal at the headworks is 36m³/s.

In the Kharif season, canal water is used for supplementary irrigation and between 70 and 80 percent of the command area is cultivated mainly under paddy. In the rabi season only 25 to 30 percent of the command area can be irrigated and the main crop is pulses. The salient features of the scheme are given below:

Command area	32,720ha
Design discharge	37 m ³ /s
Length of main canal	80.5Km
Locks (cross regulator falls)	9
Escapes	1
Total number of outlets in command area	2,065
Average command area per outlet	16ha

The condition of the main canal, distributaries and ancillary structures has deteriorated, resulting in reduced flows, distribution problems and increased maintenance. The scope of the proposed works include the rehabilitation of 157.30Km of Pattamundai Main Canal and 8(eight) nos. of distributaries namely D2, D7A, D8, D11, D12, D15, D16 & Gobari Extension canal and the repair/up-grading of structures, comprising 80 head regulators (HR), 41 village road bridges, 2 falls/CR, 51 cross drainage structures (DS), 3 escape, 20 cross regulators (CR) and 523 outlets. In addition 35 new village road bridges and one cross drainage structure have been identified to be constructed newly.

A summary of the main canal and eight distributaries included in the sub-project are given in Tabular form.

Main Canal- Distributary : Pattamundai Canal System

Sl. No	Canal System as per existing Nomenclature	Off taking R.D.In Km	Command Area (CCA) In Ha.	Designed Discharge of Canal in Cumecs as per approved D.S.	Length of Canal In Km
1	2	3	4	5	6
1	Pattamundai Main Canal	Kendrapara Main Canal	32720(including 2778 ha for BGIIP)	36.0000	80.50
2	Distributary-2	15.078 of PMC	1697	1.462	6.48
3	Distributary-7A	36.46 of PMC	1422	1.2201	8.54
4	Distributary-8	48.868 of PMC	4185	4.0447	19.88
5	Distributary-11	55.973 of PMC	2167	2.0599	11.58
6	Distributary-12	63.638 of PMC	3274	2.8434	6.96
7	Distributary-15	75.050 of PMC	1168	1.0701	7.20
8	Gobari Extn. Canal	79.680 of PMC	3654	3.0383	8.50
9	Distributary-16	80.450 of PMC	4032	3.7448	7.66
					157.3

DEPARTMENT OF WATER RESOURCES,

Data on Canals & Distributaries under Pattamundai Canal Division, Kendrapara

Name of the District - KENDRAPARA,

Blocks covered Kendrapara - Kendrapara,
Derabis, and Pattamundai
Cuttack – Mahanga,
Salipur and Tangi

Jajpur – Badchana

Length of Main Canal 80.50 KM

Length of 8 Distributaries 76.80 KM

(D2, D7A, D8, D11, D12,

D15, D16 & Gobari Extension Canal)

REPORTS ON PATTAMUNDAI CANAL DIVISION

SALIENT FEATURES

- This Division is created vide Govt. of Odisha notification in finance No-36793 dated:-02/11/2012 to look after the REM works of Pattamundai Main canal and 8 nos of Distributaries under Tranche –II of ADB finance with head quarter at Kendrapara.
- The Jurisdiction of Pattamundai Canal Division, Kendrapara, comprises of 3 nos. of Sub-divisions i.e 1. Pattamundai Canal Sub-division, No. I - Gopalpur, 2. Pattamundai Canal Sub-division No. II – Indupur & 3. Pattamundai Canal Sub-division, No. III – Pattamundai. These three nos. of Sub-divisions are looking after the Renovation, Extension and Modernisation of Main Canal and 8 Distributaries
- The tenders for all the REM works of Pattamundai main canal and 8 nos of Distributaries are over. There are total 19 (Nineteen) nos. of Civil work packages, the procurement status with the ongoing status of packagers are shown in table-1.

STATEMENT SHOWING THE NAME OF OFFICER-IN-CHARGE OF THE REM WORKS FOR THE YEAR 2017-18 UNDER PATTAMUNDAI CANAL DIVISION, KENDRAPARA

Sl. No	Name of Officer	Designation	Telephone	Remarks
1	Sri Abhimanyu Behera	Executive Engineer	9437270218	The Concerned Assistant Executive Engineers, Asst. Engineers and Junior Engineers are instructed to supervise the REM works of Pattamundai main canal and 8 nos. of Distributaries
2	Sri Binod Kumar Patra	A.EE P.C. Sub-Division No.I Gopalpur	9437155865	
3	Sri Pramod Kumar Kodamasingh	A.EE P.C. Sub-Division No.II Indupur	8895715032	
4	Sri Bijaya Kumar Behera (Retired from Govt. service with effect from 30.09.2017)	Asst.Executive Engineer (Estimator)	9437251937	
5	Sri Santosh Kumar Panda	Assistant Engineer (Estimator)	9090607067	
6	Sri Bideshi Behera	DAO Deputed from RD	9437416401	
7	Sri Manas Ranjan Parida	JE P.C. Sub Division No.I	9437937709	

8	Sri Panchanan Sahoo	JE P.C. Sub Division No.I	9438548655
9	Sri Ananta Nayak	JE P.C. Sub Division No.III	9853480509
10	Sri Nityananda Malla	JE P.C. Sub Division No.III	9938491377
11	Sri Ashok Kumar Sahoo	JE P.C. Sub Division No.I	9861057842
12	Sri Bikram Mohapatra	JE P.C. Sub Division No.II	9438790205
13	Sri Gorasasi Sahoo	JE P.C. Sub Division No.II	9937778347
14	Sri Jyoti Ranjan Nayak	JE P.C. Sub Division No.III	7894418038
15	Sri Nihar Ranjan Jena	Junior Cleark	9439192480
16	Sri Pramod Kishor Das	Sr. Clerk (Retired)	9238950441

Procurement Schedule and Expenditure of Civil Packages under Pattmundai Sub-Project, OIIAWMIP Tranche-II Table-1

SI No.	Package No.	Name of Work	Name of Agency	Agreement No.	Agreement Amount	Deviated Amount	Date of Commencement	Date of Completion	Expenditure for 2017 - 18	Status of Work	% of work executed during 2017-18
1	2	3	4	5	6	7	8	9	10	11	12
1	CW-NCB-PAT-01	Rehabilitation,Extension and modernization of Main Canal of Pattamundai Canal System From RD 0.00 Km to 9.25 Km including all structures.	Sri Ajit Kumar Swain	1-NCB/2016-17	667.04	701.89	27.04.2016	26.4.2018	370.94	Work in Progress.	52.85
2	CW-NCB-PAT-02	Rehabilitation,Extension and modernization of Main Canal of Pattamundai Canal System From RD 9.25 Km to 15.077 Km including all structures.	Sri Ajit Kumar Swain	2-NCB/2016-17	711.96	715.79	27.04.2016	26.4.2018	455.39	Work in Progress.	63.62
3	CW-NCB-PAT-03	Rehabilitation,Extension and modernization of Main Canal of Pattamundai Canal System From RD 15.077 Km to 23.024 Km including all structures.	Sri Ajit Kumar Swain	3-NCB/2016-17	767.95	823.24	27.04.2016	26.4.2018	607.23	Work in Progress.	73.76
4	CW-NCB-PAT-04	Rehabilitation,Extension and modernization of Main Canal of Pattamundai Canal System From RD 23.042 Km to 28.851 Km including all structures.	Sri Ajit Kumar Swain	4-NCB/2016-17	677.71	739.04	27.04.2016	26.4.2018	564.68	Work in Progress.	76.41
5	CW-NCB-PAT-05	Rehabilitation,Extension and modernization of Main Canal of Pattamundai Canal System From RD 28.851 Km to 37.94 Km including all structures.	M/s Shivajyoti Construction	5-NCB/2016-17	653.84	816.86	02.05.2016	01.05.2018	685.43	Work in Progress.	83.91
6	CW-NCB-PAT-06	Rehabilitation,Extension and modernization of Main Canal of Pattamundai Canal System From RD 37.94 Km to 46.6 Km including all structures.	M/s Shivajyoti Construction	18-NCB/2016-17	777.56	793.01	07.03.2017	06.03.2019	533.90	Work in Progress.	67.33
7	CW-NCB-PAT-07	Rehabilitation,Extension and modernization of Main Canal of Pattamundai Canal System From RD 46.6 Km to 54.033 Km including all structures.	Sri Ajit Kumar Swain	8-NCB/2016-17	676.82	723.28	24.05.2016	23.05.2018	526.85	Work in Progress.	72.84

SI No.	Package No.	Name of Work	Name of Agency	Agreement No.	Agreement Amount	Deviated Amount	Date of Commencement	Date of Completion	Expenditure for 2017 - 18	Status of Work	% of work executed during 2017-18
8	CW-NCB-PAT-08	Rehabilitation, Extension and modernization of Main Canal of Pattamundai Canal System From RD 54.033 Km to 61.045 Km including all structures.	Sri Ajit Kumar Swain	9-NCB/2016-17	666.32	705.6	24.05.2016	23.05.2018	448.90	Work in Progress.	63.62
9	CW-NCB-PAT-09	Rehabilitation, Extension and modernization of Main Canal of Pattamundai Canal System From RD 61.045 Km to 65.54 Km including all structures.	M/s Shivajyoti Construction	6-NCB/2016-17	594.94	651.99	02.05.2016	01.05.2018	457.24	Work in Progress.	70.13
10	CW-NCB-PAT-10	Rehabilitation, Extension and modernization of Main Canal of Pattamundai Canal System From RD 65.54 Km to 69.5 Km including all structures.	M/s Shivajyoti Construction	7-NCB/2016-17	627.00	661.68	02.05.2016	01.05.2018	515.58	Work in Progress.	77.92
11	CW-NCB-PAT-11	Rehabilitation, Extension and modernization of Main Canal of Pattamundai Canal System From RD 69.5 Km to 75.72 Km including all structures.	Sri Ajit Kumar Sahoo	13-NCB/2016-17	595.14	635.3	25.07.2016	24.07.2018	549.39	Work in Progress.	86.48
12	CW-NCB-PAT-12	Rehabilitation, Extension and modernization of Main Canal of Pattamundai Canal System From RD 75.72 Km to 80.500 Km including all structures.	Sri Ajit Kumar Sahoo	17-NCB/2016-17	629.15	691.46	18.11.2016	17.11.2018	593.67	Work in Progress.	85.86
13	CW-NCB-PAT-13	Rehabilitation, Extension and modernization of Pattamundai Distributaries Canals D2 & D7A of Pattamundai Canal including structures, selective lining and repair to canal embankment roads under package no. CW-NCB-PAT-13.	M/s Shivajyoti Construction	16-NCB/2016-17	603.18	647.35	15.11.2016	14.11.2018	368.27	Work in Progress.	56.89

Sl No.	Package No.	Name of Work	Name of Agency	Agreement No.	Agreement Amount	Deviated Amount	Date of Commencement	Date of Completion	Expenditure for 2017 - 18	Status of Work	% of work executed during 2017-18
14	CW-NCB-PAT-14	Rehabilitation, Extension and modernization of Pattamundai Distributaries Canals D8 (Rd 00-2km) & D-11 of Pattamundai Canals including structures, selective lining and repair to canal embankment roads under package no.CW-NCB-PAT-14.	Bhabani Prasad Kar (JV)	15-NCB/2016-17	773.92	774.02	15.11.2016	14.11.2018	438.78	Work in Progress.	56.69
15	CW-NCB-PAT-15	Rehabilitation, Extension and modernization of Pattamundai Distributaries Canals D8 (Rd 2km-19.8km) of Pattamundai Canals including structures, selective lining and repair to canal embankment roads under package no.CW-NCB-PAT-15.	Bhabani Prasad Kar (JV)	10-NCB/2016-17	657.33	657.37	25.06.2016	24.06.2018	460.86	Work in Progress.	70.11
16	CW-NCB-PAT-16	Rehabilitation, Extension and modernization of Pattamundai Distributaries Canals D12 & D15 of Pattamundai Canal including structures, selective lining and repair to canal embankment roads under package no.CW-NCB-PAT-16.	Bhabani Prasad Kar (JV)	19-NCB/2016-17	675.4	675.4	07.03.2017	06.03.2019	256.12	Work in Progress.	37.92
17	CW-NCB-PAT-17	Rehabilitation, Extension and modernization of Pattamundai Distributaries Canals D16 of Pattamundai Canal including structures, selective lining and repair to canal embankment roads under package no.CW-NCB-PAT-17.	M/s BB Infra Solutions Pvt. Ltd.	12-NCB/2016-17	571.33	571.33	05.07.2016	04.07.2018	408.53	Work in Progress.	71.51
18	CW-NCB-PAT-18	Rehabilitation, Extension and modernization of Pattamundai Distributaries Canals gobari Extension (Rd 00-4.5km) of Pattamundai Canal including structures, selective lining and repair to canal embankment roads under package no.CW-NCB-PAT-18.	M/s Unicorn Construction	11-NCB/2016-17	419.22	443.14	05.07.2016	04.07.2018	388.32	Work in Progress.	87.63

SI No.	Package No.	Name of Work	Name of Agency	Agreement No.	Agreement Amount	Deviated Amount	Date of Commencement	Date of Completion	Expenditure for 2017 - 18	Status of Work	% of work executed during 2017-18
19	CW-NCB-PAT-19	Rehabilitation, Extension and modernization of Pattamundai Distributaries Canals gobar Extension (Rd 4.5-8.5km) of Pattamundai Canal including structures, selective lining and repair to canal embankment roads under package no.CW-NCB-PAT-19.	M/s Unicorn Construction	14-NCB/2016-17	385.50	-	24.10.2016	23.10.2018	284.52	Work in Progress.	73.81

Summary Statement of Disbursement of Compensation in Pattamundeil Canal Division (0-80 km) - Status as on 31st ' Mar-2018 Table-2

Package No	Affected Persons (APs)			Area (in Sq. mtr.)			Status of Compensation & Livelihood Assistance (Rs.)			Reasons		Total
	Total	Received full compensation	Balance to be paid	Total	Land Available	Balance	Total	Disbursed	Balance	Name Mismatch	Deceased	
1	2	3	4 (2-3)	5	6	7 (5-6)	8	9	10 (8-9)	11	12	13
Pack-1	4	4	0	68.00	68.00	-	34,836	34,836	-			0
Pack-2	13	13	0	204.00	204.00	-	1,42,749	1,42,749	-			0
Pack-3	45	45	0	663.00	663.00	-	5,55,668	5,55,668	-			0
Pack-4	17	17	0	236.00	236.00	-	2,07,376	2,07,376	-			0
Pack-5	164	163	1	2,580.00	2,565.00	15.00	24,17,378	24,03,928	13,450		1	1
Pack-6	95	94	1	1,740.80	1,711.55	29.25	13,24,124	13,14,947	9,177	1		1
Pack-7	24	24	0	303.86	303.86	-	3,69,893	3,69,893	-			0
Pack-8	6	6	0	75.91	75.91	-	57,436	57,436	-			0
Pack-9	44	44	0	1,221.87	1,221.87	-	6,82,125	6,82,125	-		1	1
Pack-10	7	7	0	91.89	91.89	-	1,41,663	1,41,663	-			0
Pack-11	34	32	2	394.85	380.85	14.00	4,29,032	4,18,554	10,478		2	2
Pack-12	42	42	0	391.52	391.52	-	4,58,299	4,58,299	-		1	1
Pack-13	35	34	1	524.00	514.00	10.00	4,60,620	4,45,320	15,300		1	1
Pack-14	9	9	0	60.03	60.03	-	66,625	66,625	-			0
Pack-15	2	2	0	24.0	24.0	-	15,284	15,284	-			0
Pack-16	15	15	0	107.51	107.51	-	1,04,029	1,04,029	0			0
Pack-20	41	41	0	595.00	595.00	-	6,16,790	6,16,790	-		1	1
Pack-21	45	43	2	670.00	642.00	28.00	7,33,887	7,13,131	20,756	1	1	2
Pack-22	28	27	1	165.93	161.75	4.18	1,92,330	1,87,591	4,739		1	1
Pack-23	9	8	1	139.46	134.66	4.80	1,11,687	1,06,837	4,850		1	1
Total	679	670	9	10,257.63	10,152.40	105.23	91,21,831	90,43,081	78,750	2	7	9
% age	100.0	98.7	1.3	100.0	99.0	1.0	100.0	99.1	0.9	0.3	1.0	1.3

RP Implementation

Implementation of RP has under taken in Pattamundai Sub Project as per the approved entitlement matrix. The Entitlement Enumeration Survey (EES) for the RP has been taken up during Dec' 2012 to January' 2013 by the respective O&M Divisions. Life Academy of Vocational studies (LAVS) was engaged as Civil Society organization to implement the social safeguard requirements and to assist the SIO (EE) in implementing the RP. Disbursement of compensation to 670 nos of affected persons (AP's) amounting to Rs.90,43,081.00 have already been made out of total 679 (AP's) under the project by the end of July 2016. A corrective Action plan is made for already paid AP's under the project. The disbursement to 675 AP's amounting to Rs.2,35,57,450.00 has already been paid by the end of March-2018.

Executive Engineer

Quality Control Measures

For the all ongoing package works, the field laboratory is being setup by individual agency in respective work area where regular Quality Control tests are being conducted for both Core & earth work. Besides SQM has regular site visit to the project from

1. 20.07.2016 to 22.07.2016
2. 20.12.2016 to 22.12.2016
3. 11.04.2017 to 13.04.2017

Executive Engineer Quality Control Division, Cuttack has visited the sites on dt.18.02.2017, 02.03.2017, 16.03.2017, 21.11.2017 & 19.12.2017

Executive Engineer



Head Regulator at RD. 79.98

Head Regulator at RD.79.6





Cross Regulator at RD.63.68
Near Ghagara



Balichandrapur CR-cum-Fall at RD. 36.85



