



**GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES**

ANNUAL REPORT 2015-16
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 32,693ha, though this includes the 2,778ha of 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 37m³/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:

Original command area	-	51460ha
Revised (2008) command area	-	32693ha
Revised design discharge (appd. Ds of 2013)	-	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 & G.E. 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 escapes, 20 cross regulators (CR) and 436 outlets. In addition 25 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 Table.

2. Main Canal- Distributary : Pattamundai Canal System

Table

Sl . No	Canal System as per existing Nomenclature	Offtaking R.D.In Km	Comman d Area (CCA) In Ha.	Designed Discharge of Canal in Cumecs as per approved D.S.	Lengt h of Canal In Km	Identificatio n as per Q & CCA Criteria
1	2	3	4	5	6	7
1	Pattamundai Main Canal	Kendrapara Main Canal	32693 (including 2778 ha for BGIIP)	37.0000	80.50	Main Canal
2	Distributary-2	15.078 of PMC	1697	1.462	6.48	Distributary
3	Distributary-7A	36.46 of PMC	1422	1.2201	8.54	-do-
4	Distributary-8	48.868 of PMC	4185	4.0447	19.88	-do-
5	Distributary-11	55.973 of PMC	2167	2.0599	11.58	-do-
6	Distributary-12	63.638 of PMC	3274	2.8434	6.96	-do-
7	Distributary-15	75.050 of PMC	1168	1.0701	7.20	-do-
8	Gobari Extn. Canal	79.680 of PMC	3654	3.0383	8.50	-do-
9	Distributary-16	80.450 of PMC	4032	3.7448	7.66	-do-

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DEPARTMENT OF WATER RESOURCES,

Data on Canals & Distributaries under Pattamundai Canal Division, Kendrapara

Name of the District - KENDRAPARA,

Blocks covered

Kendrapara -
Kendrapara, Derabis,
Pattamundai and
Mahakalpada

Cuttack – Mahanga,
Salipur and Tangi

Jajpur – Badchana

Length of Main Canal

80.5 KM

Length of 8 Distributaries

76.80 KM

(D2, D7A, D8, D11,D12,
D15,D16 & G.E Canal)

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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 Distibutaries 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 (Ninteen) 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 2015-16 UNDER PATTAMUNDAI CANAL DIVISION,
KENDRAPARA**

Sl. No	Name of Officer	Designation & Place of Posting	Telephone	Remarks
1	Sri Aswini Kumar Mohanty	Executive Engineer	9437260960	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	Judhistira Jena	A.EE P.C. Sub Division No.III Pattamundai	9439099558	
5	Sri Bijay Kumar Behera	A.EE (Estimator & P.I.O)	9437251937	
6	Sri Santosh Kumar Panda	A.E (Estimator)	9090607067	
7	Sri Ratindra Nath Banarjee	DAO Deputed from RD	9437290322	
8	Sri Manas Ranjan Parida	JE P.C. Sub Division No.I	9437937709	
9	Sri Raghunath Pradhan	JE P.C. Sub Division No.I	9437451858	
	Sri Panchanan Sahoo	JE P.C. Sub Division No.I	9438548655	

Sl. No	Name of Officer	Designation & Place of Posting	Telephone	Remarks
10				
11	Sri Ananta Nayak	JE P.C. Sub Division No.III	9853480509	
12	Sri Nityananda Malla	JE P.C. Sub Division No.III	9938491377	
13	Sri Ashok Kumar Sahoo	JE P.C. Sub Division No.I	9861057842	
14	Sri Bikram Mohapatra	JE P.C. Sub Division No.II	9438790205	
15	Sri Gorasasi Sahoo	JE P.C. Sub Division No.II	9937778347	
16	Sri Jyoti Ranjan Nayak	JE P.C. Sub Division No.III	7894418038	
17	Sri Nihar Ranjan Jena	Junior Clerk	9439192480	

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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) is 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 654 nos of affected persons (AP's) have already been made out of total 679 (AP's) under the project by the end of july 2016.A detailed of AP's paid package wise , land available for construction activities and payment made so far is enclosed (Table-2) .

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

As of 2nd Aug' 2016

Amount In Lakhs Rs.

SI No.	Package No.	Name of Work	Name of Agency	Agreement No.	Agreement Amount	Date of Commencement	Date of Completion	Expenditure for 2016 - 17	Status of Work
1	2	3	4	5	6	7	8	9	10
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	667.1	27.04.2016	26.4.2018	75.76	Work in Progress.
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	711.95	27.04.2016	26.4.2018	79.77	Work in Progress.
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	27.04.2016	26.4.2018	85.3	Work in Progress.
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	677.7	27.04.2016	26.4.2018	94.25	Work in Progress.
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	653.83	02.05.2016	01.05.2018	111.81	Work in Progress.

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.								Govt. Permission is sought for to open the financial bid.
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	676.81	24.05.2016	23.05.2018	67.68		Work in Progress.
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	24.05.2016	23.05.2018	66.33		Work in Progress.
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	594.93	02.05.2016	01.05.2018	125.1		Work in Progress.
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	02.05.2016	01.05.2018	147.32		Work in Progress.
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	25.07.2016	24.07.2018	59.51		Work in Progress.
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.								Agt. To be drawn after RP clearance from ADB.

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.							Agt. To be drawn after RP clearance from ADB.
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.							Agt. To be drawn after clearance from State Tender Committee .
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	25.06.2016	24.06.2018	65.3	Work in Progress.
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.							Agt. To be drawn after clearance from State tender committee .
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	05.07.2016	04.07.2018	57.14	Work in Progress.

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	05.07.2016	04.07.2018	41.92	Work in Progress.
19	CW-NCB-PAT-19	Rehabilitation,Extension and modernization of Pattamundai Distributaries Canals gobari 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.							Financial Bid opened and evaluation in progress.

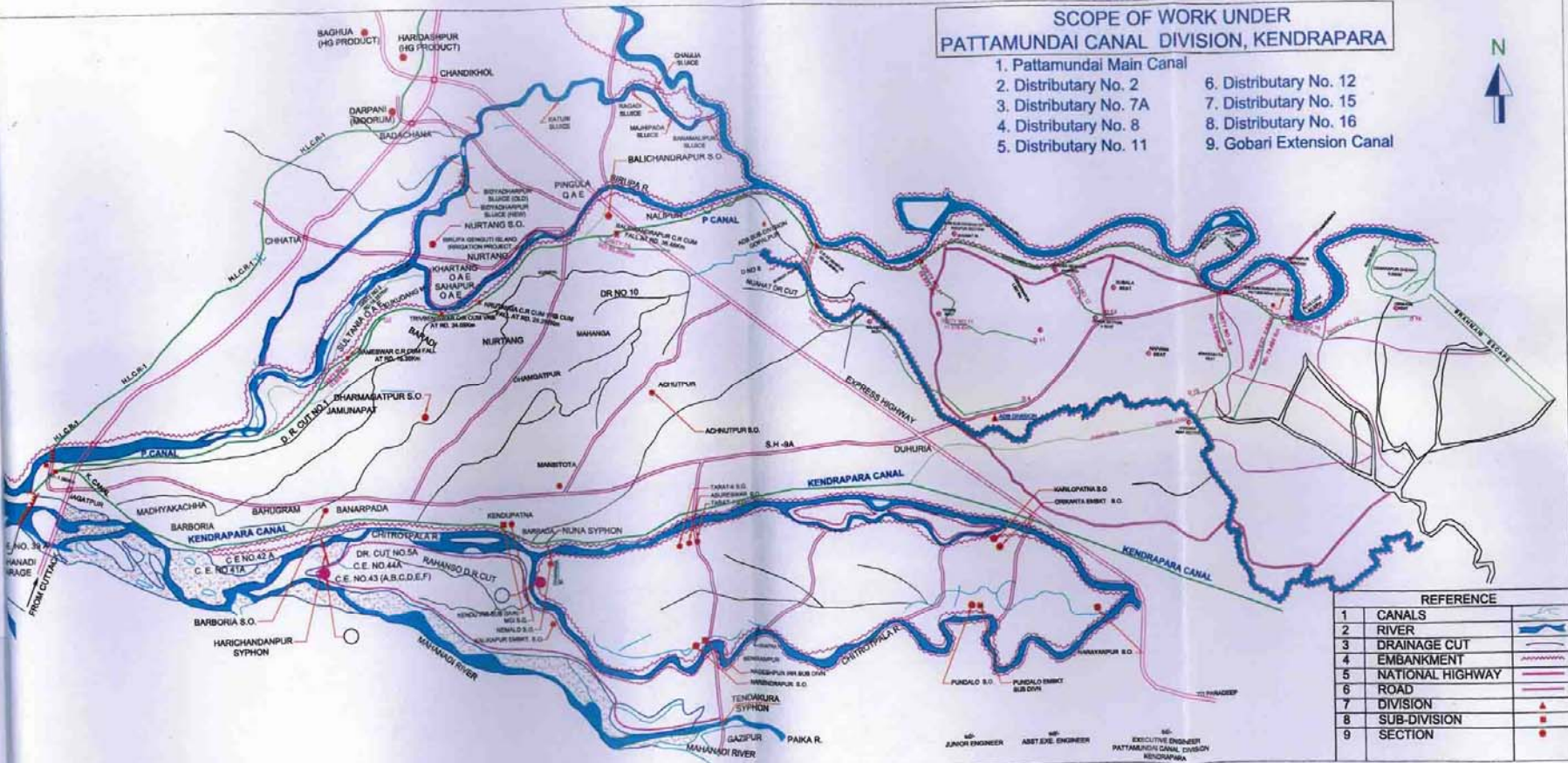
Summary Statement of Disbursement of Compensation in Pattamunde Canal Division (0-80 km) - Status as on 2nd ' Aug 2016 Table-2

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	-	142,749	142,749	-			0
Pack-3	45	45	0	663.00	663.00	-	555,668	555,668	-			0
Pack-4	17	17	0	236.00	236.00	-	207,376	207,376	-			0
Pack-5	164	164	0	2,580.00	2,580.00	-	2,417,378	2,417,378	-	0	0	0
Pack-6	95	94	1	1,740.80	1,711.55	29.25	1,314,124	1,304,947	9,177	1		1
Pack-7	24	24	0	303.86	303.86	-	369,893	369,893	-			0
Pack-8	6	6	0	75.91	75.91	-	57,436	57,436	-			0
Pack-9	43	42	1	1,155.51	1,130.31	25.20	667,346	653,885	13,460		1	1
Pack-10	7	7	0	91.89	91.89	-	141,663	141,663	-			0
Pack-11	34	31	3	394.85	345.56	49.29	429,032	408,996	20,036	3		3
Pack-12	42	40	2	391.52	353.02	38.50	458,299	432,676	25,623	1	1	2
Pack-13	35	34	1	524.00	514.00	10.00	460,620	422,808	37,812		1	1
Pack-14	10	9	1	68.31	60.03	8.28	72,091	66,625	5,466	1		1
Pack-15	2	2	0	24.0	24.0	-	15,284	15,284	-			0
Pack-16	15	14	1	107.51	97.66	9.85	104,029	98,790	5,239	1		1

Minor & Sub minor	123	108	15	1,570.39	1456.74	113.65	1,654,694	1,546,505	108,189	14	1	15
Total	679	654	25	10199.55	9915.53	284.02	9,102,518	8,877,515	225,002	21	4	25
% age	100.0	96.3	3.7	100.0	97.2	2.8	100.0	97.5	2.5	84.0	16.0	100.0

**SCOPE OF WORK UNDER
PATTAMUNDAI CANAL DIVISION, KENDRAPARA**

- | | |
|---------------------------|---------------------------|
| 1. Pattamundai Main Canal | 6. Distributory No. 12 |
| 2. Distributory No. 2 | 7. Distributory No. 15 |
| 3. Distributory No. 7A | 8. Distributory No. 16 |
| 4. Distributory No. 8 | 9. Gobari Extension Canal |
| 5. Distributory No. 11 | |



REFERENCE	
1	CANALS
2	RIVER
3	DRAINAGE CUT
4	EMBANKMENT
5	NATIONAL HIGHWAY
6	ROAD
7	DIVISION
8	SUB-DIVISION
9	SECTION

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 ASST. EXEC. ENGINEER
 EXECUTIVE ENGINEER
 PATTAMUNDAI CANAL DIVISION
 KENDRAPARA

