



**GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES**

**ANNUAL ACTIVITY REPORT
FOR
THE YEAR 2016-2017**

**PADAMPUR INVESTIGATION DIVISION,
PADAMPUR**

Executive Engineer
Padampur Investigation Division
Padampur

BRIEF HISTORY

Padampur (also known as Padmapur) is a town and NAC in Bargarh District of western Odisha having Co-Ordinate 21.0' N & 83.07' E. It has an average elevation of 205 meters. It is about 440 kilometres from its capital city of Bhubaneswar and almost 80 km from its district headquarters, Bargarh. Padampur is about 80 km from Bolangir, the District Headquarter of its neighbouring district to its south, thus Padampur, Baqrgarh and Bolangir roughly form an equilateral triangle, each urban centre located at the three corners. The area around Padampur is mostly rain fed and is prone to frequent droughts. The Ong river, a right bank tributary of the Mahanadi flows on the eastern side of the town about 2 kms away and on the way to Bargarh. The Gandhamardan Parvat is about 40 kms south-east and forms the natural border between Bargarh and Balangir Districts. The per Capita income is very low. As per 2011 India Census, Padampur had a population of 17625, with a sex ratio of 961; males constitute 51% of the population and females 49%.

Padampur Investigation division, padampur was restructured in the year 1991, after the rename of padampur irrigation division, which was created in the year 1981. This division looks after the survey and investigation work of different major, medium and lift irrigation projects and studies their feasibility. Besides these this division plays a major role in the preparation of DPR, Cost Estimation and Forest Clearance of the project.

Padampur Investigation Division comprises of 4 no.s of sub-divisions and ten no.s of sections as detailed below.

A. Padampur Inv. Sub-Div, No.-I, Padampur

- 1) Section-I, Padampur
- 2) Section-II, Padampur
- 3) Section-III, Padampur

B. Padampur Inv. Sub-Div, No.-II, Padampur

- 1) Section-I, Padampur
- 2) Section-II, Padampur
- 3) Section-III, Padampur

C. Padampur Inv. Sub-Div, No.-III, Padampur

- 1) Section-I, Padampur
- 2) Section-II, Padampur

D. Padampur Inv. Sub-Div, No.-IV, Padampur

- 1) Section-I, Padampur
- 2) Section-II, Padampur

Staff Position of Padampur Investigation Division, Padampur

Sl. No.	Gazetted	Sanctioned	Existing	Vacancy	Remarks
1	Executive Engineer	1	1	0	
2	A.E.E.	4	4	0	
3	A.E.	5	5	0	2 No.s A.E. deputed to Cuttack Investigation Division, Cuttack
4	J.E.	6	3	3	
	Total =	16	13	3	
	Non-Gazetted				
1	Head Clerk	1	0	1	
2	Sr. Clerk	1	1	0	
3	Jr. Clerk	6	3	3	
4	Tracer	1	0	1	
5	Draughts Man	1	1	0	
6	Peon	8	8	0	
7	Daftary	1	1	0	
8	Night Watchman Cum Sweeper	1	1	0	
9	Work Charge & Wages	15	15	0	
	Total =	35	30	5	

A. ONG DAM PROJECT (ODP)

Ong Dam Project is reservoir scheme (Major Irrigation Project) which envisages construction of an earth dam 7.48 km.length including 195 m. long ogee spillway across river Ong, a tributary of river Mahanadi near village Pujharipali, 15 kms. away from Padampur in the district of Bargarh of Orissa. The total catchment area of the river at dam site is 2321 sqkm. Out of which 1282 sqkm lies in Orissa and 1039 sqkm lies in newly formed Chhatisgarh State. Due to construction of the proposed project, 12 nos. of villages will be submerged fully and 20 nos. of villages will be submerged partially including 4 nos. of villages of Chhatisgarh State. The project after completion will provide irrigation to 30000 ha. of CCA in the drought prone area of Padampur, Sohela, Bijepur, Gaisilat Blocks of Padampur Sub-Division in Bargarh District and Agalpur(Duduka)block of Bolangir District. It will irrigate an area of 22,500 ha. in Khariff season and 12,000 ha. in Rabi season. There will be two main canal on left and right side of river Samandu having 30.3 Km. and 7.5 Km. length respectively.

B. RANJORE IRRIGATION PROJECT (RIP)

Ranj jore Irrigation Project is a reservoir scheme involving construction on a 1.92 km. long earth dam across river Ranj jore, a tributary of river Jeera near village Sarandapali,6 Km away from Bijepur of Barpali Block in the district of Bargarh. The catchment area intercepted at the proposed Dam site is 123 sq.km. The gross command area proposed for this project is 5500 ha. Taking the Cultural Command area as 75 % of GCA, the CCA comes to be 4125 ha. The length of left main canal is 7.50 km and that of right main canal is 10.00 Km. The project on completion will provide irrigation to 3750 Ha. of land in Khariff season and 1000 Ha in Rabi season.

C. JEERA IRRIGATION PROJECT (JIP)

Jeera Irrigation Project is a reservoir project proposed in Mahanadi basin on Jeera River, a tributary to Mahanadi River, at village Duanpali (15 Km from Sohela); block Bhatli, in Bargarh District of Orissa. The project envisages construction of a 1958 m long Homogeneous Rolled Earth Fill dam, besides a spillway of length 72m proposed at the central portion of the dam axis. The catchment area intercepted at the proposed Dam site is 124.9 Sq.km. This medium irrigation project will provide irrigation facility to 6000 ha of G.C.A and 4800 ha of C.C.A in nearly 25 no.s of villages. It will irrigate an area of 4320 ha. in Khariff season and 1520 ha. in Rabi season. There will be two main canal on left and right side of river Jeera having 13.25 Km. and 7.25 Km. length respectively.

D. KATANGI IRRIGATION PROJECT (KIP)

The scheme envisages construction of a dam near village Banjipali (Reservoir-I) in Khaprakhol block of Bolangir district across Katangi Nallah. The catchment area of the proposed project at dam site is 190.00 sq. Km. The project has been planned to irrigate 2249Ha in Kharif & 1459 Ha in Rabi Season. Apart from this, the project will supplement water to a proposed diversion weir on Kumri Nallah near Buden village (Reservoir-II) of Rajborasambar Block in Bargarh district to irrigate about 3695 Ha in Kharif & 1500 ha. In Rabi Season in Padampur Sub-Division of Bargarh District. The total G.C.A. of this project is 9572.93 Ha, where as C.C.A is 7179.70 Ha.

E. SAMANDU IRRIGATION PROJECT (SIP)

Samandu Irrigation project is a reservoir project which envisages construction of an earthen dam 250 mtr. long with a central spillway across river Samandu, a tributary of Tikra river which is in turn a tributary of Brahmani river near village Ambajhar, 45 Km away from Rairakhol. The total Catchment area is 75 square km. The project after completion will provide irrigation to 2815.15 ha. of C.C.A. out of 3753.54 ha. G.C.A. The ayacut covers 11 nos. of villages of Rairakhol Sub-Division of Sambalpur district. There will be two main canal on left and right side of river Samandu having 14.35 Km. and 17 Km. length respectively.

F. BARGARH NALLAH IRRIGATION PROJECT

This project envisages construction of an earthen dam 1608 mtr. long with a central spillway near village Tangarpali across river Bargarh Nallah, a tributary of Ranjore river which will create an irrigation potential of 331.68 ha. of C.C.A. out of 442.24 ha. G.C.A. The ayacut covers 05 nos. of villages of Bargarh Sub-Division of Bargarh district. The inhabitants of this area are mostly dominated by Schedule Tribes and Schedule Caste. The catchments are calculated at the dam site is 17.00 Sq. Km. The calculation for 75% dependable yield comes to 510.00 ham. The F.R.L. is proposed to be fixed at 184.00 mtr. Submerging 339.68 ha. of land. There will be two main canal on left and right side of river Bargarh Nallah having 2 Km. and 5 Km. length respectively to irrigate an area of 331.68 ha. of C.C.A. in a quite draught prone area of the block.

G. BANJARI NALLAH IRRIGATION PROJECT

This project envisages construction of an earthen dam 1930 mtr. long with a central spillway near village Patharla across river Banjari Nallah, a tributary of Jeera river which will create an irrigation potential of 329.52 ha. of C.C.A. out of 562 ha. G.C.A. The ayacut covers 05 nos. of villages of Bargarh Sub-Division of Bargarh district. The inhabitants of this area are mostly dominated by Schedule Tribes and

Schedule Caste. The catchments are calculated at the dam site is 31.00 Sq. Km. The calculation for 75% dependable yield comes to 930.00 ham. The F.R.L. is proposed to be fixed at 185.50 mtr. Submerging 355.68 ha. of land. There will be two main canal on left and right side of Banjari Nallah having 4.32 Km. and 1.2 Km. length respectively to irrigate an area of 421.5 ha. of C.C.A. in a quite draught prone area of the block.

H. BIJEPUR LIFT IRRIGATION PROJECT

This project envisages providing irrigation facilities to Bijepur Area of Bargarh District by direct lifting of water from the Hirakud Reservoir through a system of underground pipelines which will create an irrigation potential of 15000 ha. of C.C.A. out of 19000 ha. G.C.A. The ayacut covers 56 nos. of villages of Bijepur Block of Padampur Sub-Division under Bargarh District. Apart from this, the project will also meet the drinking water requirement of the area. As on date a small ayacut of Bijepur Block on its South-Eastern boundary comes under the command of Hirakud Project through Kebar Distributary. Similarly, a small chunk of 2735 ha on the Eastern and North-Eastern part of Bijepur Block will be irrigated through the Left and Right Main Canal of Ranjjore Irrigation Project. An elongated bank of land mass of Bijepur Block on the right side of Utalijore river will also be brought under irrigation in future as it comes under the ayacut area of Ong Dam Project. The central portion of Bijepur Block covering a G.C.A. of 19000 Ha. is proposed to provide irrigation to a C.C.A. of 14000 Ha. to 15000 Ha. under the Lift Irrigation Scheme.

I. UPPER LANTH MEDIUM IRRIGATION PROJECT

In order to provide a permanent relief to the people who are facing unbelievable misery, Govt. of Odisha has initiated to take up requisite measures by planning to built Upper Lanth Irrigation project on River Lanth, a tributary of River Tel in Mahanadi basin. The Upper lanth Project is located near village Chikili of Belpara Block in Patnagarh Sub-Division of Bolangir district. The Project is situated at about 82 Kms away from bolangir. The river lanth originates from Gandamardan mountain range forming the western boundries of Bolangir District at an average R.L. of 301 m. and intercept a catchment area of 189.07 Sq. Km. at the proposed site. Since the irrigation potential of the river is unutilized, it is proposed to built a reservoir scheme at the upper reach of the river just after it leaves the hilly terrain and enters plain so as to provide the irrigation potential to the drought prone area of Bolangir district and to improve the economic condition of the people. The project on completion will provide irrigation to an ayacut of 4700 Ha. in Belpara block of Bolangir district.

SALIENT FEATURES OF PROJECTS UNDER PADAMPUR IRRIGATION DIVISION, PADAMPUR

SL. NO.	SALIENT FEATURES	UNIT	NAME OF THE PROJECT									
			ODP	JIP	RIP	KIP		SIP	BARGARH NALLAH	BANJARI NALLAH	BIJEPUR LIFT	UPER LANTH
						RESERVOIR-I	RESERVOIR-II					
1	Loacation											
	Latitude		21 ⁰ -05'-29" E	21 ⁰ -23'-11" E	21 ⁰ -14'-29" N	20 ⁰ -45'-45" N	20 ⁰ -52'-25" N	21 ⁰ -19'-20" N	21 ⁰ -05'-21" N	21 ⁰ -17'-58" N		20 ⁰ -32'-50" N
	Longitude		83 ⁰ -03'-06" E	83 ⁰ -26'-13" E	83 ⁰ -29'-07" E	82 ⁰ -57'-20" E	83 ⁰ -00'-47" E	84 ⁰ -41'-10" E	83 ⁰ -32'-12" E	83 ⁰ -32'-56" E		82 ⁰ -53'-20" E
	Village		Pujharipali	Duanpali	Sarandapali	Banjipali	Buden	Ambajhar	Tangarpali	Patharla		Chikli
2	River		Ong	Jeera	Ranj	Katangi nallah	Kumri Nallah	Samandu	Bargarh Nallah	Banjari Nallah		Lanth
3	Catchment Area	Sq. Km	2,321	124.9	123	190	87	75	17	31		189.07
4	Max. Design Discharge	Cumec	13,990	1,696	1,185							1864.6
5	Top Lvl. Of Dam	Meter	220	210.5	198.6	283	253	187	187	188.5		298.5
6	M.W.L/ F.R.L.	Meter	219	207.5	196.6	280	250	184	184	185.5		295.5
7	D.S.L	Meter	209.5	202	191.6							285
8	Live Storage Capacity	Ha-M	28,900	2,343	2,576							4086
9	Dead Storage Capacity	Ha-M	4,100	399.5	321							564
10	Length of Dam	Meter	7,480	1,958	1,920	2118.5	1,457.4	264	1608	1930		2495
11	Max. Height of Dam	Meter	30	17.58	12.95	11			11	11		22.5
12	Type of Spillway		Ogee Type	Ogee Crested	Ogee Crested							Solid gravity
13	GCA	Ha	40,000	6,000	5,500	4,909.20	4,663.73	3,753.40	442.24	562.00	19,000.00	6,170.00
14	CCA	Ha	30,000	4,800	4,125	3,681.90	3,497.80	2,815.15	331.68	421.50	15,000.00	4,700.00
15	Kharif Aycut	Ha	22,500	4,320	3,750							3990
16	Rabi Aycut	Ha	12,000	1,520	1,000							2115
17	Intensity Of Kharif	%	75	90	91							85
18	Intensity of Rabi	%	40	32	24							45
19	Intensity of Annual irrigation	%	115	122	115							130

ANNUAL REPORT FOR THE YEAR 2016-17					
PADAMPUR INVESTIGATION DIVISION, PADAMPUR					
SL NO	ITEM OF WORK	TARGET	ACHIEVEMENT	EXPENDITURE INCURRED IN RS.	REMARK
A	ONG DAM PROJECT (ODP)				
1	Ayacut Survey	178.71 Ha	178.71 Ha	69,000.00	
	TOTAL (A)			69,000.00	
B	RANJORE IRRIGATION PROJECT (RIP)				
1	Processing of Forest Land Diversion Proposal, preparation of certified land schedule, DGPS survey and authentication of Maps/ Schedules by DFO and ORSAC, certification of geo-referenced forest land map, pillar fixing of the selected forest boundary points, identification of compensatory afforestation land with joint verification of revenue and forest authorities, DGPS survey of CAF Land, conducting Gram Sabha and processing of FRA certificate through District Collector, Preparation on CAT plan and compensatory afforestation plan and transmission of complete Forest Diversion proposal with RCCF'S report to PCCF, BBSR, Odisha.	1 No., 7.055 Ha.	1 No., 7.055 Ha.	20,01,347.00	
	TOTAL (B) =			20,01,347.00	
C	JEERA IRRIGATION PROJECT (JIP)				
1	Fixing of boundary stone pillars along the periphery line of reservoir	130 Nos.	130 Nos.	1,73,127.00	
2	Processing of Forest Land Diversion Proposal, preparation of certified land schedule, DGPS survey and authentication of Maps/ Schedules by DFO and ORSAC, certification of geo-referenced forest land map, pillar fixing of the selected forest boundary points, identification of compensatory afforestation land with joint verification of revenue and forest authorities, DGPS survey of CAF Land, conducting Gram Sabha and processing of FRA certificate through District Collector, Preparation on CAT plan and compensatory afforestation plan and submission of complete Forest Diversion proposal to PCCF,BBSR..	1 No., 5.391 Ha.	1 No., 5.391 Ha.	19,26,715.00	
	TOTAL (C) =			20,99,842.00	
D	KATANGI IRRIGATION PROJECT (KIP)				
1	Fixing of B.M. Pillar	20 No.s	20 No.s	1,38,712.00	
2	Drilling of holes along the Dam Axis and Spillway	17 Nos.	17 Nos.	15,84,181.00	
3	Dam Base survey	14.57 Ha	14.57 Ha	17,600.00	

4	Periphery Survey	60.00 Km	60.00 Km	2,88,517.00	
5	Canal Alignment Survey	20.99 Km	20.99 Km	1,04,020.00	
6	Fixing of boundary stone pillars along the periphery line of reservoir	1900 No.s	1900 No.s	9,12,978.00	
7	Misc			2,69,734.00	
		TOTAL (D) =		33,15,742.00	
E	SAMANDU IRRIGATION PROJECT (SIP)				
1	Ayacut Survey	1876.25 Ha.	1876.25 Ha.	7,37,379.00	
2	Fixing of B.M. Pillar	10 Nos.	10 Nos.	72,124.00	
3	Dam Base survey	30 Ha	30 Ha	26,747.00	
4	Periphery Survey	8 km	8 km	38,469.00	
5	Drilling of holes along the Dam Axis and Spillway	12 No.s	12 No.s	9,31,044.00	
6	Misc			40,444.00	
			TOTAL (E) =	18,46,207.00	
F	BARGARH NALLAH				
1	Ayacut Survey	482.24 Ha	482.24 Ha	1,76,588.00	
2	Carrying of G.T.S. Bench Mark	34.00 Km	34.00 Km	63,994.00	
3	Dam Axis Clearance	16666.67 M ²	16666.67 M ²	20,000.00	
4	Dam Base survey	16.75 Ha	16.75 Ha	17,639.00	
5	Reservoir survey	287.50 Ha	287.50 Ha	1,81,662.00	
6	Canal Alignment Survey	22 km	22 km	1,09,025.00	
7	Periphery Survey	33 Km	33 Km	1,58,684.00	
8	River Survey (L.S.)	11 Km	11 Km	32,441.00	
9	River Survey (C.S.)	23 No.s	23 No.s	77,124.00	
10	Fixing of B.M. Pillar	15 No.s	15 No.s	1,04,422.00	
11	Fixing of boundary stone pillars along the periphery line of reservoir	980 No.s	980 No.s	4,47,968.00	
12	Drilling of holes along the Dam Axis and Spillway	5 No.s	5 No.s	4,99,143.00	
			TOTAL (F) =	18,88,690.00	
G	BANJARI NALLAH				
1	Ayacut Survey	439.36 Ha		1,76,588.00	
2	Dam Axis Clearance	25000 Sqm		28,750.00	
3	Fixing of boundary stone pillars along the periphery line of reservoir	1000 No.s		4,69,133.00	
4	Fixing of B.M. Pillar	15 No.s		1,04,095.00	
5	Drilling of holes along the Dam Axis and Spillway	5 No.s		3,80,911.00	
6	Carrying of G.T.S. Bench Mark	12 Km		31,997.00	
7	Dam Base survey	19 Ha		17,398.00	
8	Reservoir survey	475 Ha		2,60,989.00	

9	Periphery Survey	54 Km		2,25,796.00	
10	River Survey (L.S.)	11 Km		32,441.00	
11	River Survey (C.S.)	23 No.s		77,124.00	
12	Canal Alignment Survey	18 Km		77,567.00	
13	Map	50 No.s		15,000.00	
14	Misc			49,896.00	
	TOTAL (G) =			19,47,685.00	
H	BIJEPUR LIFT IRRIGATION PROJECT				
1	OCC (S & I)			85,99,470.00	
2	Map			46,500.00	