



**ANNUAL ACTIVITY REPORT FOR THE
YEAR 2016-17**

IB INVESTIGATION DIVISION, SUNDARGARH

BRIEF HISTORY

Ib Investigation Division, Sundargarh was created in the year 2003. This division looks after the Survey and Investigation works of different Projects namely, Suidihi Irrigation Project, Samij Irrigation Project, Kala Barrage Project, Korapani Irrigation Project, Chandrinallah Irrigation Project, Ghogar Irrigation Project, Sankhabhanga Barrage Project, Lamdora Irrigation Project, Aheerajore Barrage Project, Telijore Irrigation Project and various Instream Storage Structure which are cleared in 74 TAC and 76 TAC..

Ib Investigation Division, Sundargarh comprises of four nos. of Sub-divisions and 11 (eleven) Nos. of Sections as detailed below.

Ib Investigation Sub-division No.I, Sundargarh

- 1) Section No.I (Deputed to Panposh Sub-division)
- 2) Section No.II (To look after Ghogar Irrigation Project)
- 3) Section No.III (To look after ISS of Sapai Project)

Ib Investigation Sub-division No.II, Sundargarh

- 1) Section No.I (To look after Tilijore Irrigation Project)
- 2) Section No.II (To look after Sankhabhanga Barrage Project & ISS at Katikela)

Ib Investigation Sub-division No.III, Jharsuguda (functioning at Sundargarh)

- 1) Section No.I (To look after Lamdora Irrigation Project)
- 2) Section No.II (To look after Aheerajore Barrage Project)
- 3) Section No.III (To look after ISS of Thelianallah Project)
- 4) Section No.IV (Deputed to CE, PPF&I, Bhubaneswar)

Panposh Investigation Sub-division, Panposh, Rourkela

- 1) Section No.I (To look after Samij Irr. Project , Kala Barrage Project & ISS at Sankha)
- 2) Section No.II (To look after Suidihi Irr. Project & Korapani Irr. Project & S.I works at Hamirpur)
- 3) Deputed from Sub-dvn.No.I (To look after chandrinallah Irr. Project)

Staff position of Ib Investigation Division, Sundargarh

GAZETTED			NON GAZETTED		
Post	Sanctioned strength	Men in position	Post	Sanctioned strength	Men in position
Executive Engineer	1	1	Divisional Accountant	1 No	Vacant
Asst.Executive Engineer	4	4	Head Clerk	1 No	1 No
Assistant Engineer	6	6	Senior Clerk	2 Nos	2 Nos
Junior Engineer	6	6	Junior Clerk	7 Nos	Vacant
			Draughtsman	1 No	1 No
			Junior Stenographer	1 No	Vacant
			Daftary	1 No	1 No
			Peon	8 Nos	5 Nos
			Night Watchman	1 No	1 No
G.TOTAL	17	17	G.TOTAL	23 Nos	11 Nos

STATUS OF S/I PROJECTS OF IB INVESTIGATION DIVISION,
SUNDARGARH.

1) TELIJORE IRRIGATION PROJECT.

Telijore Irrigation Project envisages construction of a composite Dam near village- Telijore, Block- Balisankara in Sundargarh District across river Ib, a tributary of river Mahanadi to Irrigate 62, 700 Ha of C.C.A in Mahanadi Basin covering 3 districts namely Sundargarh, Jharsuguda & Sambalpur of Odisha.

Due to construction of this project at F.R.L 280m, only 2 Nos. of villages namely Telijore & Bankidihi are liable for fully submergence having 368 nos. of families in the state of Odisha and only 3 nos. of villages namely Peruada, Bijadihi & Kinkibandh are liable for partly submergence (Land only) in the state of Chhatisgarh. The catchment area of the project is 5000 sqkm. Total submergence area is 1692 Ha out of this forest land is 225.61 Ha.

Target for 2016-17 Ayacut area survey of 20000 Ha and Reservoir survey of 1692 Ha were given. The target of Ayacut area survey has been achieved during the year and out of 1692 Ha of Reservoir survey 879 Ha i.e Odisha portion is completed.

The survey work for submergence area of balance 813 Ha of Chhattisgarh State and Ayacut area are under progress.

2) AHIRAJORE BARRAGE PROJECT.

Ahirajore Barrage Project envisages construction of a barrage near village- Debdarha in Lakhanpur block of Jharsuguda District across Ahirajore nalla, a small stream in Mahanadi Basin which directly drains to Hirakud reservoir.

The object of the project is to provide Irrigation to 2220 Ha in Khariff in 26 villages under Lakhanpur block of Jharsuguda District through two canal system. The pond level of the barrage is 202.50 m. There is no fully submergence of villages in this project, only 2 nos. villages area partly submerged (Land only). Due to this project 14.53 Ha of forest land will be affected. The forest diversion proposal is under process and it has been submitted to MOEF, Govt Of India. FRA certificates for 14.53 Ha has been issued by Collector Jharsuguda.

Forest clearance is taken up by OCC Ltd and it is under progress. Other survey works have been completed. D.P.R has been accepted by C.W.C

3) GHOGAR BARRAGE PROJECT.

Ghogar Barrage Project envisages construction of a barrage near village-Ghogar in Balisankara block of Sundargarh district across river IB of Mahanadi basin. The total catchment area at the project site is 5182 sqkm.. The project aims at construction of 550m long and 4.7m high barrage. The project on completion shall provide irrigation facility to 9980 Ha of C.C.A in Sundargarh district. The pond level of this project has been kept at 265m . The maximum water level is mostly confined within the banks. So there is no submergence area in this project.

Target for 2016-17 Ayacut survey of 6400 Ha and Pond area survey of 812 Ha were given and the same has been achieved during the year.

4) KARAPANI IRRIGATION PROJECT.

Karapani Irrigation Project envisages for construction of reservoir across the nalla Karapani, at tributary in the left bank of river Brahmani near village Barghat under Lahunipada Block. The catchment area of the project is 121 sqkm. The project aims at construction of 1312m long & 30.50m high earth dam having a central spillway of 16.50m length. On completion of the project it will provide irrigation to 3325 Ha in Khariff and 2100 Ha in Rabi in 9 nos. of villages under Bonai block and 15 nos. of villages under Lahunipada block in Sundargarh district. In this project 2 nos. of villages will be fully submerged and 3 nos. of villages will be partly submerged. 148 nos. of families will be displaced. The forest land to be submerged will be 88.97 Ha. The F.R.L of the project is kept at 190.50m.

Environment clearance has been recommended by SEIAA during 2015-16. D.P.R has been submitted to C.W.C. Forest clearance is taken up by OCC Ltd. and the data collection and verification of Land schedule is under progress. Other survey works have been completed.

5) SAMIJ IRRIGATION PROJECT.

Samij Irrigation Project envisages for construction of reservoir across Samij nalla a tributary of river Brahmani in the left bank near village Jamdihi in Koira block in Sundargarh district. The catchment area of the project is 141.325 sqkm. The length of the dam is 876m.with F.R.L 330m. The project on completion will provide irrigation to 2740 Ha in Khariff and 914 Ha in Rabi of Koira block in Sundaragrh district. There are 4 nos. of villages to be submerged in this project and 78.43 Ha (Approximate) of forest land will be submerged in reservoir.

Target for 2016-17 Ayacut area survey of 490 Ha and Main canal alignment survey of 12 Km were given and the same has been achieved during the year.

6) KALA BARRAGE PROJECT.

Kala Barrage Project envisages to construct a barrage project across Kala nalla near village Kaliapal of Barkot block in Deogarh district. The catchment area of the project 185.00 sqkm. It is proposed to have a pond level of the barrage at R.L. 150m. on completion of the barrage project 4050 Ha of land will be irrigated under Barkot block in the district of Deogarh. About 40 nos. of villages will be benefitted after completion of this project. This project involves 2 nos. of main canal systems i.e left main canal of length 34 Km and right main canal of length 6 Km. There is no submergence of villages in this project.

Out of 40 Km main canal alignment survey target for 2016-17 was 7 Km and the same has been achieved during the year. Forest clearance is taken up by OCC Ltd. and the data collection and verification of Land schedule is under progress. Other survey works have been completed.

7) SUIDIHI IRRIGATION PROJECT.

Suidihi Irrigation Project envisages to construct a dam across Hatibura nalla near village Dalakuda of Lathikata block in Sundargarh district. The catchment area of the project is 71.00 sqkm. The project aims at construction of 1250m long and 23m high earth dam having a central spillway of length 60.50m. F.R.L of the project is kept at R.L 213.70m. This project on completion shall provide Irrigation facility to 2909 Ha of land during Khariff and 1130 Ha during Rabi, about 28 nos. of villages will be benefitted under Lathikata & Gurundia block in Sundargarh district. The project involves 2 nos. of main canal systems i.e left main canal and right main canal. Due to this project 3 nos. of villages will be submerged fully and 1 no of village partly in Lathikata block and the forest land of 48.89 Ha (Approximate) will be submerged.

Target for 2016-17 Ayacut area survey of 1809 Ha and Main canal alignment survey of 20 Km were given. Out of the target 1325 Ha of Ayacut survey and 12 Km of Main canal alignment survey have been completed during the year. Balance survey work is under progress.

8) SANKHABHANGA BARRAGE PROJECT.

Sankhabhanga Barrage Project envisages construction of a barrage across the river Sankhabhanga a tributary in the left bank of river Bheden near village Bhoipali in Jamankira block of Sambalpur district. The catchment area of the project is 481 sqkm. The pond level of the project has been fixed at R.L.230m. The project has been proposed with a C.C.A of 16557 Ha. There is no submergence of villages in this project. Approximately 102.14 Ha of forest land will be submerged in this project. 21 nos. of villages of Sambalpur district and 3 nos. of villages of Jharsuguda district will be benefitted.

Target for Ayacut area survey of 2016-17 was 11362 Ha and Main canal alignment survey was 30 Km. The same has been achieved during the year.

9) CHANDRINALLA IRRIGATION PROJECT.

Chandrinalla Irrigation Project envisages to construct a reservoir across Chandrinalla nalla a tributary in the right bank of river Brahmani near village Gailo of Lathikata Block in Sundargarh district. The catchment area of the project 121 sqkm. The project aims at construction of 1350m long and 23m high earth dam having central spillway of length 60.50m. This project on completion shall provide irrigation facility to 5000 Ha of C.C.A in 27 nos. of villages of Lathikata block in Sundargarh district. The F.R.L of this project has been kept at 237.00m. By creation of the reservoir total 320.72 Ha of land will be submerged out of which 37.69 Ha is forest land. Due to this project 1 no. village shall be fully submerged and 2 nos. of villages shall be partly submerged with displacement of 581 nos. of families.

Target for 2016-17 2160 Ha of Ayacut area survey was given and the same has been achieved during the year.

10) LAMDORA IRRIGATION PROJECT.

In the original proposal Lamdora Irrigation Project envisaged to construct a reservoir across Lamdora nalla at village Kadogarh of Dimirimunda G.P in Sambalpur district. The F.R.L was fixed at 280m. The project had been proposed with C.C.A of 7300 Ha. The submergence area of the project was 525.51Ha. due to this 3 nos. of villages were fully submerged with 50 nos. of families. As there was stiff resistance from the villagers of villages coming under submergence. The public hearing for Lamdora Irrigation Project was postponed. In the mean while, it is ascertained that a major portion around 5000 Ha of Ayacut of the proposed project will be benefitted from a nearby Mega Lift project (*Cluster No-III*). Then it was decided the revised survey work will be taken up in the new axis which is 4 Km downstream of the original axis. The F.R.L has been fixed at 270m. Approximately 5000 Ha will be irrigated during Khariff and 2000 Ha will be irrigated during Rabi for 19 nos. of villages in Jamankira block and 10 nos. of villages in Kuchinda block in Sambalpur district. The submergence area at new axis will be 430 Ha and there will be no submergence of villages.

Target for Ayacut area survey of 2016-17 was 2842 Ha and the same has been achieved during the year. Now the survey work has been stopped due to stiff resistance from the local people.

11) LOW HEIGHT STORAGE STRUCTURE ACROSS RIVER SAPAI.

The proposed Low Height Storage Structure across river Sapai is located near village Phulbari in Bargaon block of Sundargarh district. The project aims at construction of 140mtr long and 5 mtr high Low Height Storage Structure. The total catchment area at the project site is 338 Sqkm. The pond level of this project has been kept at 237.00mtr. The maximum water level is mostly confined within the bank. So there is no submergence of lands. The project on completion shall provide Irrigation facility to 2543 Ha of Land by lift irrigation in Bargaon block of Sundargarh district.

Target for 2016-17, 60 Km of L.S, C.S of river survey , 20 Ha of Barrage base survey and drilling works were given and the same has been achieved during the year.

12) LOW HEIGHT STORAGE STRUCTURE ACROSS RIVER SANKHA

The proposed Low Height Storage Structure across river Sankha is located near village Gopapali in Lathikata block of Sundargarh district. The project aims at construction of 240mtr long and 4 mtr high Low Height Storage Structure. Free catchment area at the project site is 819 Sqkm. The pond level of this project has been kept at 176.00mtr. The maximum water level is mostly confined within the bank. So there is no submergence of lands. The project on completion shall provide Irrigation facility to 1500 Ha of Land by lift irrigation in Lathikata block of Sundargarh district.

Target for 2016-17, Ayacut survey of 800 Ha, 43 Km of L.S, C.S of river survey , 12.5 Ha of Barrage base survey and drilling works were given and the same has been achieved during the year.

13) INSTREAM STORAGE STRUCTURE ACROSS RIVER BHEDEN

The proposed Instream Storage Structure across river Bheden is located near village Katikela in Jharsuguda block of Jharsuguda district. The project aims at construction of 150mtr long and 5 mtr high Instream Storage Structure. The total catchment area at the project site is 2563 Sqkm. The pond level of this project has been kept at 195.92 mtr. The maximum water level is mostly confined within the bank. So there is no submergence of lands. The project on completion shall provide Irrigation facility to 2000 Ha of Land by lift irrigation in Jharsuguda block of Jharsuguda district.

Target for 2016-17, 50 Km of L.S, C.S of river survey , 6.25 Ha of Barrage base survey and drilling works were given and the same has been achieved during the year.

SALIENT FEATURES OF PROJECT UNDER IB INVESTIGATION DIVISION, SUNDARGARH

Sl. No	Salient Features	Unit	Name of the Project												
			TELIJORE IRR. PROJECT	AHIRAJORE BARRAGE PROJECT	GHOGAR BARRAGE PROJECT	KARAPANI IRR. PROJECT	SAMIJ IRR. PROJECT	KALA BARRAGE PROJECT	SUIDIHI IRR. PROJECT	SANKHABHANGA BARRAGE PROJECT	CHANDRINALLA IRR.PROJECT	LAMDORA IRR. PROJECT	LHSS ACROSS RVER SAPAI	LHSS ACROSS RVER SANKHA	LHSS ACROSS RVER BHEDEN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Catchment Area	Sqkm	5000.00	133.40	5182.00	121.00	141.33	185.00	71.00	481.00	121.00	425.62	338.00	819.00	2563.00
2	Maximum Design Discharge/Flood discharge	Cumec	-	1260.00	-	1240.00	1432.00	1469.00	832.00	3809.80	1240.42	-	-	-	-
3	Top of bank level	Meter	282.00	205.50	-	-	333.00	-	216.70	-	240.00	-	-	-	-
4	M.W.L/F.R.L	Meter	280.00	202.50	-	190.50	330.00	150.00	213.70	230.00	237.00	270.00	-	-	-
5	Pond level	Meter	-	202.50	265.00	-	-	150.00	-	230.00	-	-	237.00	176.00	195.92
6	D.S.L	Meter	-	-	-	174.00	-	-	-	-	228.00	-	-	-	-
7	Live storage capacity	Meter	-	-	-	3304.04	-	-	2890.99	-	1750.58	-	-	-	-
8	Dead storage capacity	Meter	-	-	-	94.57	-	-	406.115	-	278.52	-	-	-	-
9	Length of Dam/Barrage	Meter	1670.00	174.00	550.00	1312.00	876.00	177.70	1250.00	1080.00	1417.00	-	140.00	240.00	150.00
10	Maximum height of Dam/ Barrage	Meter	17.00	7.10	4.70	30.50	24.73	-	27.00	11.50	24.00	-	5.00	4.00	5.00
11	Type of spillway		-	-	-	Ogee type Radial gate	Ogee type Radial gate	-	Ogee type Radial gate	-	Ogee type Radial gate	-	-	-	-
12	Length of Spillway	Meter	-	-	-	60.50	60.50	-	60.50	-	60.50	-	-	-	-
13	Crest level of spillway	Meter	-	-	-	182.50	322.00	-	205.70	-	229.00	-	-	-	-
14	No and size of spillway gates	No/Meter	-	-	-	4 Nos (12m x 8m)	-	-	-	-	4 Nos (12m x 8m)	-	-	-	-
15	G.C.A	Ha	90000.00	3500.00	12480.00	4430.00	4060.00	4800.00	4619.00	5936.90	6700.00	8180.00	-	-	-
16	C.C.A	Ha	62700.00	2220.00	9980.00	3500.00	3045.00	4050.00	3233.00	5343.21	5000.00	6440.00	2543.00	1500.00	2000.00
17	Khariff ayacut	Ha	-	2220.00	8985.00	3325.00	2740.00	3600.00	2909.00	5253.21	4500.00	-	-	-	-
18	Rabi ayacut	Ha	-	-	3500.00	2100.00	914.00	-	1130.00	-	1750.00	-	-	-	-
19	Intensity of Khariff	Percentage	65.40%	-	-	95%	90%	-	89.98%	90%	90%	-	-	-	-
20	Intensity of Rabi	Percentage	10%	-	-	60%	30%	-	34.95%	-	35%	-	-	-	-
21	Design discharge of main canal	Cumec		Left- 0.70 Right-2.00	-	-	-	Left- 3.69 Right- 0.29		-	-	-	-	-	-

**ALLOTMENT AND EXPENDITURE FOR PLAN AND NON PLAN SCHEME
2016-2017**

CONTROLLONG OFFICER : CHIEF ENGINEER, PROJECT PLANNING FORMULATION & INVESTIGATION, ODISHA

Sl. No	Name of the Project	20-4701-96-789-2951-37107-000	20-4701-96-796-2951-37107-000	20-4701-96-800-2951-37107-000	20-4701-96-800-2951-31033-000	20-4701-96-800-2951-03001-000	Total allotment placed for 2016-17	Expenditure incurred (in lakhs.)
		Major works Allotment placed (Rs. In lakh.)	Major works Allotment placed (Rs. In lakh)	Major works Allotment placed (Rs. In lakh)	T&P Allotment placed (Rs. In lakh)	Work-ch. Allotment placed (Rs. In lakh)		
1	SUIDIHI IRRIGATION PROJECT							19.31
2	SAMIJ IRRIGATION PROJECT							11.73
3	KALA IRRIGATION PROJECT							52.79
4	KORAPANI IRRIGATION PROJECT							48.06
5	SANKHABHANGE IRR.PROJECT							72.43
6	AHEERAJORE BARRAGE PROJECT							15.04
7	LAMDORA IRRIGATION PROJECT	66.84	63.00	340.88	5.00	4.65	480.37	31.18
8	CHANDRINALLAH IRR.PROJECT							23.64
9	GHOGAR BARRAGE PROJECT							46.63
10	TELIJORE IRRIGATION PROJECT							126.88
11	L.H.S.S. ACROSS RIVER SANKHA							14.61
12	L.H.S.S. ACROSS RIVER SAPAI							14.93
13	L.H.S.S. ACROSS RIVER BHEDEN							3.11
	TOTAL							480.34

CONTROLLONG OFFICER : ENGINEER-IN-CHIEF, WATER RESOURCES, ODISHA, BHUBANESWAR

Sl.No	Name of the work	20-2059-80-053-2448-21033-000		
		Allotment placed (Rs. In lakh.)	Expenditure incurred (in lakhs)	Remarks
1	NON RESIDENTIAL BUILDING	4.70	4.70	

Executive Engineer
Ib Investigation Division
Sundargarh