

# **GOVERNMENT OF ODISHA**



DEPARTMENT OF WATER RESOURCES

## **ANNUAL ACTIVITY REPORT FOR THE YEAR – 2017-18**

**GANJAM INVESTIGATION DIVISION  
BERHAMPUR**

**Introduction** - Ganjam Investigation Division, Brahmapur is created in Nov. 1990 to execute Survey & Investigation works of different Irrigation and Hydro power projects. Identified projects in the districts of Ganjam, Gajapati, Raygada, Kandhamal, Boudh are being taken up in this Division starting from Topographical Survey to preparation of Detailed Project Report.

At present the following 9 nos. of projects are under Survey & Investigation

Sl. No.	Name of the Project	Location – Block/District
1	Lower Vansadhara Hydro Power Project	Gudari / Raygada
2	Bramhanapada Irrigation Project	Chakapad /Kandhamal
3	Badanadi Irrigation Project	Bhanjanagar /Ganjam
4	Banta Irrigation Project	J.N.Prasad /Ganjam
5	Tilisingi Barrage Project	J.N.Prasad /Ganjam
6	Khadag Barrage Project	Balliguda /Kandhamal
7	Salki Hydro Power Project	Phulbani /Kandhamal, Boudh
8	Laxmi Pathar Irrigation Project	Harabhanga /Boudh
9	Satighat Barrage Project	Boudh

There are 3 nos. of Sub-Divisions to carry out the field works.

**1 Ganjam Investigation Sub-Division no.-1, Gudari**

This Sub-Division comprises of one Asst. Executive Engineer, one Asst. Engineer and two. Nos. of Junior Engineers out of which one J.E. post is vacant. At present this Sub-Division executes the S/I works of Lower Vansadhara Hydro Power Project in Raygada District and S/I of Bramhanapada Irr. Project.

**2 Ganjam Investigation Sub-Division no. -2, Brahmapur**

This Sub-Division also comprises of one Asst. Executive Engineer, one Asst. Engineer and two. Nos. of Junior Engineers out of which one J.E. post is vacant. At present this Sub-Division executes S/I works of Badanadi Irrigation Project, S/I of Banta Irrigation Project, S/I of Tilisingi Barrage Project in Ganjam District.

**3 Phulbani Investigation Sub-Division, Phulbani**

This Sub-Division comprises of one Asst. Executive Engineer, one Asst. Engineer and two. Nos. of Junior Engineers. At present this Sub-Division executes S/I works of Laxmi Pathar Irrigation Project, S/I of Salki Hydro Power Project, S/I of Satighat Barrage Project in Boudh District and S/I works of Khadag Barrage Project in Kandhamal District.

## LOWER VANSADHARA IRRIGATION PROJECT

### **Project in brief**

It has been proposed to execute the project in two stages. In stage-I, it is proposed to construct a barrage across river Vansadhara at Panidangara about 6 Km from Gudari Block of Rayagada District and a Dam across Sananadi near village Khaira of Gunpur Block of Rayagada District with individual canal systems. In stage-II, construction of dam across Vansadhara & power house below the dam has been proposed.

### SALIENT FEATURES

#### **(A) LOWER VANSADHARA DAM**

##### **1 Location :**

State	:	Odisha
District	:	Rayagada
Village	:	Near Minajhola
Block	:	Gudari
River	:	Vansadhara
Basin	:	Vansadhara
Latitude	:	191 31' 00" N
Longitude	:	831 31' 00" E
Topo sheet reference	:	65-M/10,11,14,15,16 & 65 N/13 & 74-B/2

Type of Project :

Reservoir Project

##### **2 Hydrology :**

Catchment Area	:	2730 Sq.km.
Free catchment at the project site	:	2201 Sq.km.
75% Dependable yeild	:	392 M cum
Average yeild	:	657 M cum

##### **3 Reservoir :**

Full Reservoir Level (F.R.L)	:	190 m
Maximum Water Level (M.W.L)	:	195 m
Dead Storage Level (D.S.L)	:	166.5 m
Live Storage Capacity ( Revised )	:	27174 Ha.m

##### **4 Dam / Spillway:**

Total length of Dam including spillway	:	1700 m ( Approx. )
Length of spillway	:	696 m
Earth Dam portion	:	1004 m
Deepest Bed Level	:	140 m
Maximum height of Dam above deepest bed level considering free board of 3.0 m.	:	58 m ( Approx. )

## **(B) LOWER VANSADHARA BARRAGE**

### **1 Location :**

State	:	Odisha
District	:	Rayagada
Village	:	Near Panidangara 6 Km U/S of Gudari
Block	:	Gudari
River	:	vansadhara
Basin	:	vansadhara
Latitude	:	19 <sup>0</sup> 22' 53.5" N
Longitude	:	83 <sup>0</sup> 45' 39.7" E
Type of Project	:	Barrage
Pond level	:	128 m
Deepest bed level	:	118 m
Length of Barrage	:	426.5 m

### **2 Irrigation :**

Gross Command Area (GCA)	:	11578 Ha.
Culturable Command Area (CCA)	:	8105 Ha.
Kharrif area/Percentage to CCA	:	7824 Ha. (96%)
Rabi area / Percentage to CCA	:	6535 Ha.(80%)
Area irrigated from perennial source	:	460 Ha.
Total annual irrigation	:	14819 Ha.

## **(C) SANA NADI DAM**

### **Location :**

State	:	Odisha
District	:	Rayagada
Village	:	Near Khaira
Block	:	Gunupur
River	:	Sana nadi
Basin	:	vansadhara
Type of Project	:	Dam
Latitude	:	19 <sup>0</sup> 08' 17.4" N
Longitude	:	83 <sup>0</sup> 52' 39" E
Pond level	:	120 m
Deepest bed level	:	104 m
Length of Dam	:	600 m
Catchment area at Dam site	:	1205 Sq.km

### **Irrigation :**

Gross Command Area (GCA)	:	18492 Ha.
Culturable Command Area (CCA)	:	12946 Ha.
Kharrif area/Percentage to CCA	:	11004 Ha. (85%)
Rabi area / Percentage to CCA	:	9192 Ha.(71%)
Area irrigated from perennial source	:	647 Ha.
Total annual irrigation	:	20843 Ha.
Total length of main canals	:	54.40 Km.
Blocks to be benefited	:	Gunupur & Padmapur blocks of Rayagada district and Kasinagar block of Gajapati district

At present S/I of works for stage-1 proposal only is in progress. The Detailed Project Report will be submitted to the C.W.C. At present preparation of EIA & EMP is in progress. Work is executed by M/S WAPCOS Ltd.

## **SALKI HYDRO POWER PROJECT**

### **Project in brief**

Salki Hydro Power Project envisages construction of a Dam at village Gumi about 18 Km from Phulbani town of Kandhamal District for power generation near village Sikora of Boudh District and stabilisation of existing ayacut of Salki Diversion weir project.

### **SALIENT FEATURES**

#### **A) Dam & Reservoir**

##### **1 Location:**

a) State	:	Odisha
b) District	:	Kandhamal
c) River	:	Salki
d) Village	:	Gumi
e) Block	:	Phulbani
f) River	:	Salki
g) Basin	:	Mahanadi
h) Latitude	:	20 <sup>o</sup> 33' 20"N
i) Longitude	:	84 <sup>o</sup> 11' 15"E
j) Topo sheet No.	:	73 D/3,4,7 & 8
k) Type of project	:	Reservoir project
l) Type of Dam	:	Earth Dam
m) Maximum height of Dam	:	75.00 m (Approx)
n) Length of Dam	:	750.00 m (Approx)
o) Stabilisation of existing Ayacut	:	19800.00 Ha.

##### **2) Hydrology:**

a) Catchment area	:	1250.00 Sq.km.
b) Full Reservoir Level (F.R.L)	:	460.00 m
c) Tail Water Level (T.W.L)	:	200.00 m
d) Gross Head	:	260.00 m
e) Gross Storage	:	30214.00 Ha.m.
f) Submergence Area at F.R.L	:	1650.00 Ha.

##### **B) Power House:**

a) Type	:	Surface
b) Location	:	Near Sikora village
c) Latitude	:	20 <sup>o</sup> 36' 09"N
d) Longitude	:	84 <sup>o</sup> 11' 13"E
e) Installed Capacity	:	165 MW
f) Average Annual Generation	:	842 MU
g) Average Annual Output	:	96 MW
h) Full Reservoir Level (F.R.L)	:	117.00 M
i) Length of water conductor system	:	3.0 Km (Approx.)
j) Block to be benefitted	:	Phulbani & Boudh

Contract closed on 28.02.2018 as per the discussion made under the Chairmanship of EIC ( P & D). Work will be taken up by OHPC.

## LAXMI PATHAR NALLA IRRIGATION PROJECT

### Project in brief

Laxmipathar Nallah Irrigation Project envisages construction of a Dam across Laxmipathar Nalla, a tributary of Sagada Nadi to provide irrigation facility to 3860 Ha. (G.C.A) in Harabhanga Block of Boudh District.

### SALIENT FEATURES

#### **1) Location**

a) State	:	Odisha
b) District	:	Boudh
c) Sub-Division	:	Boudh
d) Block	:	Harabhanga
e) Village	:	Kirtangapada
f) River	:	Laxmipathar Nallah, a tributary of Sagada Nadi of Mahanadi Basin
g) Latitude	:	20 <sup>0</sup> 33' 58" N
h) Longitude	:	84 <sup>0</sup> 27' 25" E
i) Topo sheet	:	73 D/6,7 &10

#### **2) Hydrology**

a) Catchment area	:	86.28sq K.M
b) Maximum Annual Rain fall	:	2196.94mm
c) Minimum Annual rain fall	:	460.60 mm
d) Average annual rainfall	:	1233.66mm
e) 75% dependable runoff	:	1179.40 Ha.m
f) Design flood	:	1055 cumecs
g) Deepest Bed level	:	160.44 m
h) Nearest rail head	:	Bolangir

#### **3) Dam & Reservoir**

a) Length of Dam	:	545.00 m
b) Maximum Height of Dam	:	40.00 m
c) Top width	:	7.00 m
d) T.B.L	:	201.00 m
e) F.R.L	:	198.00 m
f) D.S.L	:	180.00 m
g) Submergence area at F.R.L	:	392.00 Ha
h) Gross storage capacity	:	4694.27 Ham
i) Live storage capacity	:	3953.00 Ham
j) Dead storage capacity	:	741.27 Ham
k) No of villages to be submerged	:	3 (Kitangapada, Patadohali, Digapadar)
l) Forest area to be submerged	:	Reserve forest 122.822 Ha.

#### **4) Spillway**

a) Length	:	61.00 m
b) Crest Level	:	192.00 m
c) Spill way capacity	:	1055.00 Cumecs
d) Size of the gate	:	12 m x 6 m

#### **5) Details of Command area**

a) G.C.A	:	3860 Ha.
b) C.C.A	:	3200 Ha.
c) Irrigation		
1) Khariff	:	2400 Ha.
2) Rabi	:	320 Ha.
d) Annual Irrigation	:	75%
e) Length of Left main canal	:	25.00Km
f) C.C.A. of Left main canal	:	3200 Ha.
g) Block to be benefitted	:	Harabhanga Block

The revised DPR after compliance will be submitted to CWC as per new guideline.

# KHADAGA BARRAGE PROJECT

## Project in brief

Initially the name of the project was Khadaga Hydro Power Project in which it was proposed to construct a Dam across river Khadaga for power generation ( in stage- 2) and a barrage near village Ghuraballi for Irrigation purpose in (Stage-I) which is under progress. It is ascertained that vast forest land will be submerged in the reservoir and proposed of Stage- 2 survey is cancelled for the time.

Hence S/I of works for construction of a barrage is in progress and the barrage axis is shifted to village Landagaon which is 1600 mtr D/S of earlier proposal.

## SALIENT FEATURE

### Construction of Barrage

#### 1) Location:

a) State	:	Odisha
b) District	:	Kandhamal
c) Village	:	Landagaon
d) Block	:	Baliguda
e) Latitude	:	20 <sup>0</sup> 24' 45"N
f) Longitude	:	83 <sup>0</sup> 41' 51"E
g) River	:	Khadaga
h) Basin	:	Mahanadi Basin
i) Topo sheet reference	:	64 P/10,11,14,15 & 16, 65M/13 , 73 D/3 , 4 & 8, 74 A/1 & 5

#### 2) Hydrology:

a) Catchment area	:	1890 Sq.Km
b) Maximum Annual rainfall	:	2278mm
c) Minimum Annual rainfall	:	905mm

#### 3) Barrage:

a) River Bed Level	:	165.5 m.
b) Type of barrage	:	Concrete
c) Length of barrage	:	317 mt.
d) Maximum height	:	10.00 mt.

#### 4) Other Parameters:

a) F.R.L	:	174.00 mt.
b) T.B.L	:	177.00 mt.
c) Pond Level	:	174.50 mt.
d) G.C.A	:	46425 Ha
e) C.C.A	:	23500 Ha

Feasibility Report submitted to CWC.

## **BRAHMANIPADA IRRIGATION PROJECT**

### **Project in brief**

Brahmanipada Irrigation Project envisages construction of a Dam near village Bandhakhamana near village Brahmanapada of Chakapad Block of Kandhamal District to provide irrigation, drinking water supply along with stabilisation of existing ayacut of Nandini & Hatibadi Diversion weir.

### **SALIENT FEATURES**

#### **1) Location :**

a) State	:	Orissa
b) District	:	Kandhamal
c) Sub-Division	:	Baliguda
d) Block	:	Chakapada
e) Village	:	Brahmanipada
f) River	:	Kolara Nallah
g) Latitude	:	28 <sup>0</sup> 18' 15" N
h) Longitude	:	84 <sup>0</sup> 27' 30"E
i) Toposheet	:	73 D/11,

#### **2) Hydrology :**

a) Catchment area	:	95.85 sq K.m
b) Maximum Annual Rain fall	:	1587.00mm.
c) Minimum Annual rain fall	:	794 mm
d) Average annual rainfall	:	1515 mm
e) 75% dependable runoff	:	2443.03 Ham
f) Design flood	:	1275 Cumecs

#### **3) Dam & Reservoir :**

a) T.B.L	:	303.00 m
b) M.W.L	:	300.00 m
c) F.R.L	:	300.00 m
d) D.S.L	:	285.50 m
e) Submergence at M.W.L	:	193.94 Ha
f) No of villages to be submerged	:	4 Nos Partial submergence
g) Population to be affected	:	470 Nos
h) Number of families to be affected	:	82Nos(ST-78,SC-3,GEN-1)

#### **4) Spillway :**

a) Crest Level	:	297.00 m
b) Deepest bad level	:	278.00 m
c) Length of spillway	:	39 m
d) No of gate	:	7 Nos
e) Size of gate	:	12 m x 3 m

#### **5) Command area :**

a) G.C.A	:	3860 Ha
b) C.C.A	:	3200 Ha
c) Block to be benifited	:	Dasapalla Block of Nayaragh District & Chakapada Block of Kandhamal District



# **BANTA IRRIGATION PROJECT**

## **Project in brief**

The project envisages construction of a Dam across Banta Nallah near village Gerada in Jagannath Prasad Block of Bhanjanagar revenue Sub-Division in Ganjam District. Banta Nallah is a tributary of Kokalaba Nallah, which is a tributary of river Badanadi of Rushikulya Basin. On completion of Dam base survey it is observed that approx 340 Ha. of Reservoir forest will be submerged at proposed F.R.L. So, it is newly proposed to construct a barrage across river Banta near Biluamara village of Jagannath Prasad Block and another barrage on river Kokalaba near village Manapur of Bhanjanagar Block of Ganjam District. S/I works like river survey of river Kokalaba is in progress. The salient features of kokalaba river will be decided after river survey.

## **SALIENT FEATURES**

### **1. (BANTA BARRAGE PROJECT)**

#### **1) Location:**

a) State	:	Odisha
b) District	:	Ganjam
c) Sub-Division	:	Bhanjanagar
d) Block	:	Bhanjanagar
e) Village	:	Near village Gerada (17 Km from Bhanjanagar)
f) River	:	Banta Nalla
g) Type of project	:	Barrage
h) Latitude	:	20 <sup>o</sup> 02' 00" N
i) Longitude	:	84 <sup>o</sup> 42' 30" E
j) Topo Sheet No.	:	73-D/12 & 16 ,74-A/9

#### **2) Hydrology:**

a) Catchment Area	:	79.89 Sq.Km
b) Average annual rainfall (Gallery Head Works site )	:	1604.92 mm
c) Average Annual Run off	:	4170 Hm
d) Maximum flood discharge	:	661 Cumec

#### **3) Barrage**

a) F.S.L	:	124.00 mt.
b) Deepest bed level	:	121.02 mt.
c) Top of Bank Level	:	126.70 mt.
d) Pond level	:	125.70 mt.
e) Ayacut level	:	125.00 mt.

#### **4) Command Area:**

a) G.C.A	:	1320 Ha
b) C.C.A	:	990 Ha

## **2. KOKALABA BARRAGE PROJECT**

### **1) Location:**

a) District	:	Ganjam
b) Block	:	Jaganath Prasad
c) Village	:	Near Manapur
d) Dam site	:	Approachable from Bhanjanagar to site 18.0 Km. Jeapable road
e) Latitude	:	20 <sup>0</sup> 02' 51" N
f) Longitude	:	84 <sup>0</sup> 40' 43" E
g) Topo Sheet No.	:	

### **2) Hydrology:**

a) Catchment Area	:	316.00 Sq.Km.
b) Average annual rainfall (Gallery Head Works site )	:	1604.92 mm.

### **3) Barrage**

a) F.S.L	:	91.40 M
b) Deepest bed level	:	86.90 M
c) Top of Bank Level (Exist)	:	90.40 M
d) Top of Bank Level (Proposed)	:	92.7 M
e) Pond level	:	91.7 M
f) Ayacut level	:	90.5 M

### **4) Command Area:**

a) G.C.A	:	5560 Ha.
b) C.C.A	:	5004 Ha.
5) Villages to be Benifited	:	50 Nos.

## **BADANADI IRRIGATION PROJECT**

### **Project in brief**

A proposal for construction of a Dam across river Badanadi near village Harigada around twenty four Kms. from Bhanjanagar town was under consideration some times back. But due to submergence of few important villages it is proposed to construct a Diversion weir.

The revised proposal envisages construction of a Diversion weir across river Badanadi on the upstream of village Badangi & one Barrage across Kalasa nadi which is a tributary of Badanadi near village Garuda under Bhanjanagar Sub-Division of Ganjam District. The survey & Investigation works of these projects are under progress.

### **SALIENT FEATURES.**

#### **A) Diversion Weir across river Badanadi.**

##### **1 Location:**

a) State	:	Odisha
b) District	:	Ganjam
c) Sub-Division	:	Bhanjanagar
d) Block	:	Bhanjanagar
e) Village	:	Near village Badangi (24 Km from Bhanjanaqar) .
f) River	:	Badanadi
g) Type of project	:	Diversion weir
h) Latitude	:	20 <sup>0</sup> 11' 00" N
i) Longitude	:	84 <sup>0</sup> 33' 30" E
k) Topo Sheet No.	:	73-D/ 11 & 12

##### **2 ) Head Work:**

a) Deepest bed level of River at proposed Diversion weir.	:	146.00	m
b) Top bank level (L/R)	:	152/152	m
c) Crest level of Diversion wear	:	148.50	m
d) Length of Diversion wear	:	100.00	m
e) Pond level	:	150.50	m
f) Height of Gate (Falling shutter)	:	2.00	m

##### **3 ) Hydrology:**

a) Catchment area	:	62.60 Sq.Km
b) Average annual rainfall	:	1431.07 mm
c) Maximum flood discharge	:	23 Cumecs

##### **4) Command Area:**

a) G.C.A	:	2000 Ha.
b) C.C.A	:	1510 Ha.

## **B) Barrage across Kalasa nadi**

### **1) Location:**

a) State	:	Odisha
b) District	:	Ganjam
c) Sub-Division	:	Bhanjanagar
d) Block	:	Bhanjanagar
e) Village	:	Near village Garuda (23 Km from Bhanjanagar)
f) River	:	Kalasa nadi
g) Type of project	:	Barrage
h) Latitude	:	20 <sup>0</sup> 09' 00" N
i) Longitude	:	84 <sup>0</sup> 36 ' 30" E
k) Topo Sheet No.	:	73-D/11 &12

### **2) Head Work:**

a) Deepest bed level of River at proposed Barrage site.	:	134.00	m
b) Top bank level (L/R)	:	144/144	m
c) Crest level of Barrage	:	137.00	m
d) Length of Barrage	:	170.00	m
e) Height of Barrage	:	9.50	m
f) Pond level	:	141.00	m
g) Height of Gate (Falling shutter)	:	4.00	m

### **3) Hydrology:**

a) Catchment area	:	150.00 Sq.km
b) Average annual rainfall	:	1431.07 mm
c) Maximum flood discharge	:	43 Cumecs

### **4) Command Area:**

G.C.A	:	1892Ha.
C.C.A	:	1419 Ha.

# TILISINGI BARRAGE PROJECT

## Project in brief

This project envisages for construction of a Barrage across river Badanadi near village Beruabadi around 20Km. from Bhanjanagar town in Bhanjanagar Block in Ganjam District. The survey & Investigation works of the project is under progress.

## SALIENT FEATURES.

1a) State	:	Odisha
b) District	:	Ganjam
c) Sub- Division	:	Bhanjanagar
d) Block	:	Jaganath Prasad & Bhanjanagar
e) Village	:	Beruabadi (20 Km from
f) River	:	Badanadi
g) Latitude	:	84°-37' E
h) Longitude	:	20° -23' N
i) Reference Topo Sheet No.	:	73 D/12 , 73 D/11

### **2 Head works**

a) Type of project	:	Proposed Barrage
b) Deepest Bed Level of river at Proposed Barrage site	:	98.015 Mtr.
c) Top Bank Level (L/R)	:	98.610 / 101.215 Mtr.
d) Crest Level of Barrage	:	95.00 Mtr.
e) Length of Barrage	:	130 Mtr.
f) Height of Barrage	:	8 Mtr.
g) Pond level	:	98.00 Mtr.
h) Height of Gate	:	3.0 Mtr.
i) Length of Main canal (Left)	:	30.00 Km.

### **3) Hydrology**

a) Catchment Area	:	--
b) Average Rainfall	:	1431.07mm

### **4) Command Area**

a) G .C .A	:	1100 Ha.
b) C. C.A	:	825 Ha.

## **SATIGHAT BARRAGE PROJECT**

This project envisages construction of a Barrage on River Salki near village Gurujimunda of Boudh Block. The Barrage axis is fixed at Satighat which is about 18 Km U/S of existing Salki Weir at Paljhar. There is a proposal of Salki Hydropower Project at the U/S of this project. The water through power house will be again channeled to this River . So utilising this water this Barrage is proposed. After construction of this barrage it can irrigate the rain fed cultivable lands of 32 villages mainly dominated by S.C. & S.T. peopole.

### **SALIENT FEATURES**

#### **1 Location**

a) State	:	Odisha
b) District	:	Boudh
c) Sub-Division	:	Boudh
d) Block	:	Boudh
e) Village	:	Gurujimunda
f) Location.	:	
g) Latitude	:	20°-37'-45" N
h) Longitude	:	84°-12'- 04" E
i) River	:	Salki
j) Basin	:	Mahanadi
k) Topo sheet No.	:	,73 D/2,73 D/3 & 73 D/5

#### **2 Hydrology**

a) Catchment area	:	1350 Sq.Km
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#### **3 Barrage**

a) Type of Barrage	:	Concrete
b) length of Barrage	:	180 Mtr.
c) Max. height	:	10.00 Mtr.
d) Deepest Bed level of River	:	<b>178.18 Mtr.</b>

#### **4 Other Parameters**

a) F.R.L	:	182.00 Mtr.
b) T.B.L	:	183.50 Mtr.
c) G.C.A.	:	6270 Ha.
d) C.C.A	:	5575 Ha.
e) Observed H.F.L	:	179 Mtr.
f) Villages to be benefited	:	59 Villages

Feasibility report of this project is prepared and will be submitted soon.

**ACTIVITIES OF THIS DIVISION DURING THE YEAR 2017-18 (PHYSICAL & FINANCIAL) Rs. In Lakhs**

Sl no.	Name of the Project	Item of Work	Status upto Mar-2017	Programme for 2017-18	Achievement upto Mar. 2018	Allotment during the year	Expenditure made during 2017-18	Remark
1	Salki Hydro Power Project.	Topographical Survey	Completed			0.96		Contract closed on 28.02.2018 as per the discussion made under the Chairmanship of EIC ( P & D). Work will be taken up by OHPC.
		Dam Base contour Survey	Completed					
		Survey of water Conductor system	completed					
		Tunnel Alignment Survey	completed					
		Microplanning Survey	completed					
		Const. material Survey	completed					
		Hydrological Observation	Continue	Continue	1 R.G. Station		0.96	
		Agro-economic Survey	completed					
		Pre-Irrigation Soil Survey	completed					
		Miscellaneous Survey	completed					
		Preparation of D.P.R	Not done	To submit	In progress			
		Forest Clearance	Not done		Not done			
		Preparation of EIA & EMP	Not done		Not done			
							<b>Total</b>	
2	Laxmipat hara Nalla Irrigation Project.	Topographical Survey	Completed			3.72		Compliance to D.P.R on observation of CWC is in Progress.
		Dam Base Survey	completed					
		Command area Survey	completed					
		Canal Alignment Survey	completed					
		Geological Exploration	completed					
		Microplanning Survey	completed					
		Const. material Survey	completed					
		Hydrological Observation	Continue	Continue	1 R.G. station		0.57	
		Agro-economic Survey	completed					
		Pre-Irrigation Soil Survey	completed					
		Miscellaneous Survey	completed					
		Preparation of D.P.R	submitted				3.15	
		Forest Clearance	Not done					
		Preparation of EIA & EMP	Not done	To submit	EIA & EMP preparation			
				<b>Total</b>	<b>3.72</b>			

Sl no.	Name of the Project	Item of Work	Status upto Mar-2017	Programme for 2017-18	Achievement upto Mar. 2018	Allotment during the year	Expenditure made during 2017-18	Remark	
3	Lower vasadhar a Hydro Power Project	Topographical Survey	Completed			1.66			
		Dam Base Survey	completed						
		Command area Survey	completed						
		Canal Alignment Survey	completed						
		Geological Exploration	completed						
		Microplanning Survey	completed						
		Const. material Survey	completed						
		Hydrological Observation	Continue	Continue	2 Nos. stations			1.66	
		Agro-economic Survey	completed						
		Pre-Irrigation Soil Survey	completed						
		Miscellenous Survey	completed						
		Preparation of D.P.R	Not done	To submit	Submitted				
		Forest Clearance	Not done						
		Preparation of EIA & EMP	Not done	To submit	TOR Cleared in EAC				
					Total				<b>1.66</b>
4	Khadaga Hydro Power Project.	Topographical Survey	Completed			58.35			
		Dam Base Survey	completed						
		Preparation of Feasibility Report	completed						Feasibility Report submitted to CWC
		Command area Survey	completed						
		Canal Alignment Survey	completed	85 K.m	Completed			10.00	
		Geological Exploration	Progress		Completed			4.00	
		Microplanning Survey	Not done		Completed			9.00	
		Const. material Survey	Not done		Completed			0.30	
		Hydrological Observation	Continue	To continue	1 No. R.G. station			35.05	
		Agro-economic Survey	completed	To complete	Completed				
		Pre-Irrigation Soil Survey	completed	To complete	In progress				
		Miscellenous Survey	Not done						
		Preparation of D.P.R	Not done						
		Forest Clearance	Not done						
		Preparation of EIA & EMP	Not done						
			Total			<b>58.35</b>			



Sl no.	Name of the Project	Item of Work	Status upto Mar-2017	Programme for 2017-18	Achievement upto Mar. 2018	Allotment during the year	Expenditure made during 2017-18	Remark	
5	Brahmanipada Irrigation Project.	Topographical Survey	Completed			9.61			
		Dam Base Survey	completed						
		Command area Survey	Completed						
		Canal Alignment Survey	9 Km.	59.00 Km.	Completed				Completed
		Geological Exploration	Completed						
		Microplanning Survey	Not done						
		Const. material Survey	Not done						
		Hydrological Observation	Continue	To Continue	1 No. R.G. station			1.74	
		Agro-economic Survey	completed						
		Pre-Irrigation Soil Survey	completed						
		Miscellaneous Survey	Not done					7.86	
		Preparation of D.P.R	Not done						
		Forest Clearance	Not done						
		Preparation of EIA & EMP	Not done						
							Total		<b>9.60</b>
6	Badanadi Irrigation Project.	Topographical Survey	Completed			2.92			
		Dam Base Survey	completed						
		Command area Survey	completed						
		Canal Alignment Survey	Not done						
		Geological Exploration	Completed						
		Microplanning Survey	Not done						
		Const. material Survey	Not done						
		Hydrological Observation	Continue	To continue	2 Nos. R.G. station			2.92	
		Agro-economic Survey	completed						
		Pre-Irrigation Soil Survey	completed						
		Miscellaneous Survey	Not done						
		Preparation of D.P.R	Not done						
		Forest Clearance	Not done						
		Preparation of EIA & EMP	Not done						
							Total		<b>2.92</b>

Sl no.	Name of the Project	Item of Work	Status upto Mar-2017	Programme for 2017-18	Achievement upto Mar. 2018	Allottment during the year	Expenditure made during 2017-18	Remark	
7	Tilisingi Irrigation Project.	Topographical Survey	Completed			0.56		works stopped and will be Taken up with Water availability study.	
		Dam Base Survey	Completed						
		Connection of G.T.S Bench Mark	9 Km.	6 Km.	15 Km.				Completed
		Command area Survey	Not done						
		Canal Alignment Survey	Not done						
		Geological Exploration	Not done						
		Microplanning Survey	Not done						
		Const. material Survey	Not done						
		Hydrological Observation	Continue	To continue	1 R.G. station		0.56		
		Agro-economic Survey	Not done						
		Pre-Irrigation Soil Survey	Not done						
		Miscellaneous Survey	Not done						
		Preparation of D.P.R	Not done						
		Forest Clearance	Not done						
		Preparation of EIA & EMP	Not done						
				Total		<b>0.56</b>			
8	Banta Irrigation Project.	Topographical Survey ( River survey)	Completed			9.57		Completed	
			Completed					Completed	
		Dam Base Survey	Completed					Completed	
		Connection of G.T.S Bench Mark	Completed					Completed	
		Fixing of Bench Mark Pillar	Completed					Completed	
		Command area Survey	In progress	2000 Ha.	2000 Ha.		7.74		
		Canal Alignment Survey	Not done	Not done					
		Geological Exploration	Not done	Not done					
		Microplanning Survey	Not done	Not done					
		Const. material Survey	Not done	Not done					
		Hydrological Observation	Continue	Continue	2 Nos. R.G. station		1.83		
		Agro-economic Survey	Not done	Not done					
		Pre-Irrigation Soil Survey	Not done	Not done					
		Miscellaneous Survey	Not done	Not done					
		Preparation of D.P.R	Not done	Not done					
Forest Clearance	Not done	Not done							
Preparation of EIA & EMP	Not done	Not done							
				Total		<b>9.57</b>			

Sl no.	Name of the Project	Item of Work	Status upto Mar-2017	Programme for 2017-18	Achievement upto Mar. 2018	Allotment during the year	Expenditure made during 2017-18	Remark
9	Satighat Barrage Project	Topographical Survey	Not done	C.S - 88 Ha. L.S - 125 Ha.		23.01		Completed
		Dam Base Survey	20 Ha.	20 Ha.				Completed
		Preparation of Feasibility Report	To submit		Completed			
		Command area Survey	In Progress	3200 Ha.	3200 Ha.		21.94	Completed
		Canal Alignment Survey	Not done					
		Geological Exploration	Not done					
		Microplanning Survey	Not done					
		Const. material Survey	Not done					
		Hydrological Observation	Continue	1 No.	1 No.		1.07	Continue
		Agro-economic Survey	Not done					
		Pre-Irrigation Soil Survey	Not done					
		Miscellaneous Survey	Not done					
		Preparation of D.P.R	Not done					
		Forest Clearance	Not done					
		Preparation of EIA & EMP	Not done					
			Total			23.01		
				<b>GRAND TOTAL</b>		<b>110.36</b>	<b>110.36</b>	

Executive Engineer  
Ganjam Investigation Division  
Brahmapur

## Staffing Pattern of this Division

Sl. No.	Name of the post	Sanctioned strength	Man in position as on 31.03.2016	Remark / Vacant
1	Executive Engineer	1	1	
2	Asst. Executive Engineer	3	2	
3	Assistant Engineer (Estimator)	1	1	
4	Assistant Engineer	3	3	
5	Junior Engineer	6	4	One No. in Ganjam Inv. Sub- Division, No. I  One No. in Phulbani Inv. Sub- Division, Phulbani
6	Head Clerk	1	1	
7	Senior Clerk	1	0	One No. in Division office
8	Junior Clerk	5	3	One No. in Ganjam Inv. Sub- Division, No. I  One No. in Phulbani Inv. Sub- Division, Phulbani
9	Junior Steno	1	1	
10	Draughts Man	1	0	
11	Peon	7	7	
12	Night Watchman	1	1	
	<b>Total</b>	<b>31</b>	<b>24</b>	