



GOVT OF ODISHA
DEPARTMENT OF WATER RESOURCES

NOTE
ON
ANNUAL REPORT OF ALL DIVISIONS
UNDER
SUBARNAREKHA IRRIGATION PROJECT
FOR THE YEAR 2015-16

Laxmiposi.
Dt.14.07.2016

Chief Engineer & Basin Manager,
Subarnarekha & Budhabalanga Basin.

SUBARNAREKHA IRRIGATION PROJECT

LOCATION :

Subarnarekha River originating in Jharkhand flows through Jharkhand, West Bengal & Odisha before outfalling in Bay of Bengal in Odisha. In order to harness the water Resources potential of Subarnarekha River, the co-basin states i.e. Jharkhand (erstwhile Bihar), Odisha & West Bengal had Tripartite Agreement in 1978 under which the share of Odisha at Kokpara (in Jharkand) was 1480 MCum. Government of Odisha subsequently formulated a scheme under which a canal was proposed to take off from Galudih Barrage in Jharkhand. The Canal drawing water from Galudih Barrage runs for 56.04 Km in Jharkhand before entering into Odisha where after the canal is known as Subarnarekha Main Canal running for a length of 46.50 Km. In addition, there are Branch Canals, distributaries, 3 Command Area Reservoirs, etc. The project contemplates to provide irrigation to an area of 1,09,627 ha in Mayurbhanj and Balasore districts of Odisha State.

The part of the Project covering CCA of 69933 hectare is presently in progress through AIBP funding and targeted to be completed by March 2019.

PROJECT PROPOSAL UNDER AIBP :

The ongoing works of AIBP consists of the following components:

A. IN JHARKHAND

- Construction of Barrage across river Subarnarekha at Galudih to divert part of Odisha's share (Odisha share 86.20%).
- Construction of 56.04 Km long Galudih Right Bank Canal (GRBC) off taking from Galudih Barrage to Jharkhand- Odisha Border to carry Odisha's share of water (Odisha share 94.00%).
- Construction of Ichha Dam across River Kharkhai to store water for use by Odisha and Jharkhand (Odisha share 26.46%).
- Construction of Chandil Dam across river Subarnarekha for irrigation in Jharkhand and flood storage for Odisha and West Bengal (Odisha share 26.47%).

B. IN ODISHA

- Subarnarekha Main Canal (lined) for a length of 46.50 km originates from the tail end of Galudih Right Bank Canal in Bihar (now Jharkhand) with a design discharge of 118.50 cumec and CCA of 6,938 ha. It feeds Haldia and Jambhira Reservoir. Further, Betnoti Branch Canal and Subarnarekha Branch Canal offtakes from Subarnarekha Main Canal.
- Betnoti Branch Canal (lined) for a length of 26.26 km with a design discharge of 60 cumec will irrigate a CCA of 22,836 ha in addition to feeding Baura Reservoir.

- Two command storage reservoirs namely Haldia (remodelling of existing reservoir) and Jambhira reservoir.
- Jambhira Right Main Canal (lined) offtakes from Jambhira Reservoir. The length of JRMC is 24.789 km with design discharge of 3.805 cumec which will irrigate a CCA of 3,530 ha.
- Jambhira Left Main Canal (lined) offtakes from Jambhira Reservoir. The length of JLMC is 82.46 km with design discharge of 27.00 cumec which will irrigate a CCA of 31,109 ha.
- Distribution system- The entire distribution system consists of lined distributaries, minors and sub-minors and water courses to irrigate a CCA of 69933 ha.

FINANCIAL STATUS

The revised cost of the Project approved by CWC in 123rd meeting held on 30.01.2014 is Rs.5561.57 crores including share cost of Rs.1065.83 crores to be borne by Odisha for works in Jharkhand. Planning Commission, GOI approved revised cost vide letter no.2(82)/2007-WR Dt.06.08.2014. The expenditure till 03/2016 is Rs.3272.20 cr (Odisha work-Rs.2271.75 cr, Joint works-Rs.1000.46 cr.).

Further, Planning Commission, Govt. of India vide Letter 20(18)/2010-WR dated 07.07.14 has approved the cost of CADP amounting to Rs.389.58 Cr. For CCA of 69,933 ha. The expenditure till 03/2016 is Rs.5.42 cr.

The Budget Provision for Financial Year 2015-16 was Rs.270.00 Crore and expenditure was Rs.268.46 Cr., the details furnished below.

Works	: Rs.158.27 Crore
Establishment including W/C	: Rs.23.25 Crore
Land Acquisition	: Rs.22.00 Crore
R&R	: Rs.34.73 Crore
Odisha Share to GOJ	: Rs.26.00 Crore
CAD&WM	: Rs.4.21 Crore
Total : Rs.268.46 crore	

PHYSICAL PROGRESS:

Physical progress is tabulated below.

A Dam:

Particulars	Progress
Jambhira dam	i) Earth work - 100 % ii) Concrete - 91%
Haladia Dam	i) Earth work - 81% ii) Concrete-Not yet started

B. Distribution system:

Particulars	Progress			
	Land Acquisition	Earth work	Lining	Structures
Subarnarekha Main Canal (SMC) (46.50km)	100%	100%	97%	98%
Subarnarekha Main Canal Distribution	100%	100%	100%	100%
Betnoti Branch Canal(BBC) (26.26km)	100%	100%	100%	100%
Betnoti Branch Canal distribution system	43%	14%	38%	36%
Jambhira Right Main Canal (24.789 km)	100%	100%	100%	100%
Jambhira Left Canal(82.46km)	100%	97%	62%	100%
Jambhira Left Main canal Distribution	38%	10%	21%	13%
Distribution system of Haldia Command	0%	86%	78%	58%

The irrigation potential created is 31,500 ha out of 69,933 ha. Kharif water supply is being provided in 20,000 ha CCA of Subarnarekha Irrigation Project.

LAND ACQUISITION AND R & R:**(a) Land acquisition:**

Total 4266.85 ha of land is required to be acquired for 1st phase AIBP. Out of the same, about 2415.16 ha have been acquired up to March, 2016, details of which are as follows:

Sl No.	Items	Total	Acquired Before AIBP	Balance under AIBP	Acquired up to 3/16 (AIBP)	Balance	
1	Unit – I : Dam & Barrage						
i	Jambhira Dam	2229.87	1427.28	802.59	802.59	0.00	
ii	Haladia Dam	430.72	430.72	0.00	0.00	0.00	
iii	Ichha Dam	2082.86	433.88	1648.98	841.83	807.15	
2	Unit – II : Main Canal & Branches.						
i	Subarnarekha Main Canal & Distribution System.	Main Canal	448.21	400.85	47.36	47.36	0.00
		Distribution	150.68	0.00	150.68	150.68	0.00
ii	Haladia Distribution	60.40	0.00	60.40	0.00	60.40	
iii	Betnoti Branch Canal & Distribution system.	Main Canal	92.94	92.94	0.00	0.00	0.00
		Distribution	455.24	0.00	455.24	197.09	258.15

iv	Jambhira Left Main Canal & Distribution system.	Main Canal	544.12	0.00	544.12	544.12	0.00
		Distribution	693.10	0.00	693.10	264.67	428.43
v	Jambhira Right Canal & Distribution system.	Main Canal	84.15	84.15	0.00	0.00	0.00
		Distribution	0.00	0.00	0.00	0.00	0.00
Total			7272.29	2869.82	4402.47	2848.34	1554.13

(b) Rehabilitation & Resettlement:

The status of R&R is mentioned below.

Reservoir	Total DFs / AFs	RA sanctioned (Nos)	RA paid (Nos)	RA payment in progress (Nos)	DF evacuated (Nos)
Jambhira Reservoir (43 villages)	3808	3474	3454	70	2635 (Evacuation for 566 AFs not required)
Haladia Reservoir (9 villages)	3128	2607	2432	175	419 (Evacuation for 2085 AFs not required)
Subarnarekha Main Canal (21 villages)	183	189	187	2	187
Ichha Reservoir (7 villages)	4479	673	614	59	9 (Evacuation for 219 AFs not required)
Total:-	11,598	6,843	6,537	306	3,244

ENVIRONMENT AND FOREST CLEARANCE:

The total forest land involved in the Project is 1166.07 ha (submergence – 948.58 ha, Canal – 217.49 ha). Against the 1166.07 ha forest land, an equivalent non-forest land has been Identified and handed over to DFO, Baripada and DFO, Karanjia for compensatory afforestation. Full amount of Rs.116.61 lakh has been deposited with DFO, Baripada and DFO, Karanjia for compensatory afforestation. MOEF has given its approval for the release of 1166.07 ha of forest land for the project in August,1990. Environment clearance for the project has been received in 1984.

QUALITY ASSESSMENT:

A Quality Control Division at Laxmiposi, Baripada, headed by Chief Research Officer (CRO), has been set up in the Project directly under the control of Chief

