

GOVERNMENT OF ODISHA



DEPARTMENT OF WATER RESOURCE

KANUPUR SPILLWAY DIVISION

ANNUAL REPORT 2016-17



KANUPUR SPILLWAY DIVISION, BASUDEVPUR

ORGANIZATION SETUP

This division is headed by an Executive Engineer under administrative control of Chief Construction Engineer, Kanupur Irrigation Project. The Executive Engineer is assisted by one Assistant Executive Engineer. Besides other important technical staffs are 2 nos of Assistant Engineers and 2nos of Junior Engineers. Non technical ministerial are One HeadClerk (Deputation) with strength of one no of Peon and 6 nos of W/C staffs (Deputation).

STAFF POSITION OF KANUPUR SPILLWAYDIVISION					
Sl. No.	Name of post	Sanctioned Strength	Existing	Name of the incumbent holding the post	Remarks
1	2	3	4	5	6
DIVISION OFFICE					
1	Executive Engineer	1	1	Er. Pradyumna Kumar Pradhan	
2	Assistant Executive Engineer	3	1	Er. Avinash Pattanaik	
3	Estimator	1	0	Vacant	
4	Divisional Accounts Officer	1	0	Vacant	
5	Senior Clerk	2	0	Vacant	
6	Draughtsman	1	0	Vacant	
7	Peon	10	0	Vacant	
8	Night Watchman	1	0	Vacant	
SPILLWAY SUB-DIVISION NO-I					
1	Assistant Executive Engineer	1	0	Vacant	
2	Assistant Engineer	1	0	Vacant	
3	Junior Engineer	2	0	Vacant	

SPILLWAY SUB-DIVISION NO-II					
1	Assistant Executive Engineer	1	1	Er. Avinash Pattanaik	
2	Assistant Engineer	1	1	Er. Lokanath Naik	
3	Junior Engineer	2	2	1. Er. Akshaya Kumar Behera	
				2. Er. Guna Murmu	
SPILLWAY SUB-DIVISION NO-III					
1	Assistant Executive Engineer	1	0	Vacant	
2	Assistant Engineer	1	1	Er. Birabara Sethy	
				On deputed to Kanupur Canal Division, Jhumpura. Kanjhari Canal Sub-Division, Dam Site.	
3	Junior Engineer	2	0	Vacant	

INFORMATION ON SPILLWAY OF K.I.P.

1. General

1. State	Odisha
2. District	Keonjhar
3. Village	Basudevpur
4. River	Baitarani
5. Sub-Division	Champua
6. Location	Lat. 22° 2' 3" N Long. 85° 30' 47" E
7. Nearest Railway Station	Deojhar

2. Hydrology

1. Catchment Area	1525 sq.km.
2. Maximum Rainfall (Monsoon)	2132.7mm
3. Mean Rainfall (Monsoon)	1343.84mm
4. 75 % Dependable Rainfall (Monsoon)	1087.50mm
5. 75 % Dependable Annual Yield (Deducting 30 % U/S Reserve)	449.92Mm ³
6. Run off Factor	38.76 %

3. Principal Levels

1. T.B.L.	443.50m
2. M.W.L./ F.R.L.	440.00m
3. D.S.L.	425.00m
4. Free Board	3.50m
5. Deepest Bed Level	404.00m

4. Reservoir Capacity & submergence

1. Gross Storage at F.R.L.	331.02mm ³
2. Dead Storage at D.S.L.	62.05mm ³
3. Live Storage between F.R.L. & D.S.L.	268.97mm ³
4. Submergence at F.R.L.	2600.00Ha
5. Forest Land Submerged	171.404 Ha
6. Cultivated Area Submerge	1295.528 Ha
7. Population to be affected	8607 Persons
8. Number of Villages affected	16 NOS(10 Village fully & 6 Village partly)
9. Transmission line Submerge	Nil
10. Road Communication Submerge	11. 50 K.M.

5. Spillway

1. Location	Centrally Located
2. Type	Ogee Type Controlled in Plum Concrete
3. Length	338.50m
4. No of Bays	12 Nos
5. Size of Gate	15.00m X 12.00m
6. Crest Level of Spillway	428.00m
7. Type of Gate	Radial
8. Design Flood	14,450.00 m ³ / Sec

Brief note on the Project

Kanpur Irrigation Project is a major Irrigation Project Comprising of Earth Dam across river Baitarani near village Basudevpur in the District of Keonjhar, Odisha. The Project was approved by Planning Commission in 2002 at an estimated cost of Rs 428.32 crore at 1998 price level and the revised estimated cost of the project is Rs 1067.51 crore at 2008 price level and was approved vide DOWR Lr no 19081/WE dt 30.07.2010. The Project was started in 1991-92 and after some infrastructural development, the balance works were taken up under AIBP in 2003-04. The Project was started with the central assistance under AIBP for 2003-04 and was scheduled to be completed by March 2010, But due to slow progress with the various hindrances, time extension up to March-2013 has been allowed by Government of India vide their Lr.No 2(267)/2007-WR-436 dt. 02.12.2009 of Planning Commission (Water Resources Division).

For Construction of Earth Dam and spillway and also for the purpose of impounding water in the reservoir total 16 nos villages are to be affected by the project, out of which 10 nos are declared as full submerged and 6 nos as partially submerged villages. Daduan is one of these which is fully submerged and coming in the Reservoir area. It is the core village of submerged area of Kanpur Irrigation Project.

The displaced persons of 16 (sixteen) villages from the reservoir area of Kanupur Irrigation Project had called strike from 17.03.2016 till date for fulfilment of their different demands. A meeting was held at Sub-Collector office, Champua on dt. 15.03.2016 where Sri Naresh Chandra Sitari and 33 persons of village- Murusuan, Basudevpur, Kandara, Chamakpur, Remenshapur, Rugudi, Dhobakuchuda, Birikala, Govindapur, Daduan, Hariharpur, Balabhadrapur, Sankarpur, Bileipada and Lahanda were present to discussed their demands. The Sub-Collector assured them that the demands were put forth at Govt. level. But inspite of fair discussion, the displaced person made a rally and completely stopped all construction activities of the project from 17.03.2016. A meeting was held on 18.03.2016 under the chairmanship of Additional S.P of Barbil where all project level officers and police officers of Champua and Joda attended and requested the representatives of displaced persons to allow construction work, but some displaced persons stopped the work till 21.03.2016 though

police personnel were deployed at the dam site. Collector & District Magistrate of Keonjhar had arranged a meeting on 22.03.2016 at the office of the Sub-Collector Champua where Sri Naresh Chandra Sitari and seventy others were present to discuss their demands in details. The collector assured them, that their demands will be resolved as per guide lines of R & R policy 2006 after discussion in the RPDAC meeting which was to be held on 19.04.2016, but they did not agree to the assurance made by the collector and district magistrate and had stopped the construction work completely till date and boycotted the RPDAC meeting.

In order to safeguard the costly machineries of the project along with life and properties of the persons engaged for the construction work and to restrain movement of agitators who are likely to attack at the project site causing serious casualties damage to heavy machineries, the Sub-Divisional Magistrate Champua ordered U/S 144 of Cr.P.C. restraining the people and supporters from launching any agitation and carrying out disruptive activities in the Kanupur Irrigation Project and its periphery area in village Basudevpur (Champua Police Station) and Kandara (Joda Police Station) on both side of river Baitarani for a period of 30(Thirty Days) from 07.04.2016

The work pertaining to Spillway of Kanupur Irrigation Project has been stopped by the DP's of reservoir area since 17.03.2016. All out efforts are being taken by the project authority and district administration to resume the work.

Information on SPILLWAY -

The Spillway of the Project is an Ogee gated one and located in the river bed with 12 Numbers of bays. The design discharge of the Spillway is 14,450.00 Cumec. The Crest Level of the Spillway is at RL 428.00 M. The Gate size Of the Spillway is 15 M X 12 M. The tailWater Level is at RL 425.00M.

Agency - M/S OCCL

Agreement No - 19F2/2007-08

Agreement Amount - 135, 66, 56,032.00

Deviated amount- 201, 43, 09,189.00

Date of commencement and completion- 30.11.2007/ 29.05.2010

EOT Sanctioned up to- 28.11.2017

Value of work done - Rs145, 62, 82,758.00

Physical status of work

Body Wall- out of 13 blocks work is in progress except Block No.5, 6, 7, 8 and Block No.9 due to passing of Flood water during Flood.

Gate work – Gate work is in progress in O.C.C. Stack Yard.

Sl. No	Items of Work	Unit	Agreement Qty	Achievement in year 2016 - 17	Cumulative Achievement up to year 2016 - 17
1	Excavation of foundation in all kinds of soil including stoney earth	Cum	427326.27	0.00	414933.94
2	Excavation of foundation in all types of D.I. rocks by mechanical means	Cum	162257.10	0.00	162257.10

3	Excavation in foundation in hard compacted sheet rock or jointed rock and boulders of all sizes in volume	Cum	89559.27	0.00	89559.27
4	Excavation in any approved type of soil in approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within all leads, lifts on properly prepared and scientifically approved surface including spreading and levelling the earth in 22.5 cm layers to make ready for watering and compaction with dozer but excluding watering	Cum	156312.513	0.00	34085.846
5	Cement concrete M-15 grade with 40mm downgraded size hard granite (CB) aggts	Cum	311290.61	0.00	279481.28
6	Cement Concrete M-20 grade with 40mm downgraded size hard granite (CB) aggts	Cum	33918.57	0.00	22032.442
7	Cement Concrete M-20 grade for RCC work with 40mm	Cum	49538.49	0.00	20628.584

	downgraded size hard granite (CB) aggrs				
8	Cement Concrete M- 25 grade for RCC work with 20mm downgraded size hard granite (CB) aggrs	Cum	83310.12	0.00	53881.469

Information on SPILLCHANNEL-

The Spillchannel of the Project is escape Channel from Spillway of bed width 218.50m and total width including embankment is 401.00m from R.D.80.00m to R.D.750.00m and located in the Spillway D/S bed from 12 Numbers of bays. The design discharge of the Spillchannel is 14,450.00 Cumec. The Bed Level of the Spillchannel is at RL 404.65 M with Bed Slope 1:1000. The Embankment Top R.L. 425.50 M and top Bank width is 6.00m. The tail Water passes through river Baitarani. The Spillchannel work will be executed after completion of National Highway Authority of India High Level Bridge.

Agency - M/S OCCL
 Agreement No - 62F2/2010-11
 Agreement Amount - 12, 11, 46,123.00
 Date of commencement and completion - 31.03.2011/ 30.03.2013
 EOT applied up to - 31.10.2016
 Value of work Advance - Rs7, 18, 82,697.00

Physical status of work

From R.D.257.00m to R.D.750.00m work is in progress except N.H. Bridge portion from R.D.80.00m to R.D.257.00m for passing of Flood water during Flood.

Sl. No	Items of Work	Unit	Agreement Qty	Achievement in year 2016 - 17	Cumulative Achievement up to year 2016 - 17
1	Excavation of Spill Channel in both wet and dry condition by mechanical means in all kinds of soil				
(a)	To be Utilised	Cum	376052.00	0.00	240235.00
(b)	To be Deposited off	Cum	855958.00	0.00	635008.00
2	Excavation of Spill Channel by mechanical means in D.I. rock Laterite Rock and Soft Rock not requiring Blasting	Cum	99874.00	0.00	15337.00

Information on RADIAL GATE -

The Radial Gates are to be provided in Spillway of the Project an Ogee gated one and located in the river bed with 12 Numbers of Gates. The design discharge of the Spillway is 14,450.00 Cumec. The Crest Level of the Spillway is at RL 428.00 M. The Gate size Of the Spillway is 15 M X 12 M. The tailWater Level is at RL 425.00M.

Agency - M/S OCCL
Agreement No - 74F2/2009-10
Agreement Amount - 55, 24, 92,4000.00

Date of commencement and completion - 25.03.2010/ 24.03.2013

EOT Applied up to - 30.06.2017

Value of work Advance - Rs26, 00, 00,000.00

Physical status of work

Gate work – Gate work is in progress in O.C.C.Stack Yard.

Sl. No	Items of Work	Unit	Agreement Qty	Achievement in year 2016 - 17	Cumulative Achievement up to year 2016 - 17
1	Design,Supply,Fabrication,Transportation and Erection of Radial Gates for Spillway and Hoisting arrangement for Radial Gates	Nos	12.00	0.00	Gate work is in progress in O.C.C.Stack Yard

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