

ANNUAL REPORT

2009 - 2010

Betwa River Board
JHANSI.

ANNUAL REPORT OF BETWA RIVER BOARD
(2009 – 10)
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PREFACE

A decision to harness the available water resources of Betwa River was taken in a meeting held on 22nd July, 1972 between Chief Ministers of Uttar Pradesh and Madhya Pradesh. Further, Uttar Pradesh and Madhya Pradesh in a meeting held on 9th December, 1973 agreed for setting up of a tripartite Control Board for the speedy, smooth and efficient execution of the various interstate projects of both the States. Betwa River Board was constituted in 1976 under the Chairmanship of Union Minister of Water Resources by an Act of Parliament to execute the Rajghat Dam Project and Power House. The Project authority started construction of the Project under the overall guidance of the Board after promulgation of Betwa River Board Act, 1976. The benefits and cost of the above Project are shared equally by both the State Governments.

Construction of Dam upto top level was completed with installation of Radial Gates. Since then the impounding of water is being done regularly for generation of power and irrigation in both the States.

The initial cost of the Dam was Rs. 123.22 crores at 1979 price level. It was revised to Rs. 213.66 crores at 1987 price level and Rs. 266.16 crores at 1995 price level. The latest estimated cost of the Dam is Rs. 300.60 crores at January, 2000 price level, and now the Revised Estimated cost of the Dam is Rs.383.63 Crore at 2006 price level..

Based on the estimated cost of Rajghat Dam of Rs. 300.60 crores on January 2000 price level as per the recommendation of Technical Advisory Committee, U.P. and M.P. are required to contribute Rs. 150.30 crores each. However, upto 31.03.2006 U.P. and M.P. have contributed Rs. 150.30 crores and Rs. 150.305 crores respectively. The cumulative net expenditure of Dam Project upto March, 2010 is Rs. 352.95 Crores.

Rajghat Power House, a joint venture of U.P. and M.P. Electricity Boards, envisages construction of a Power House with installed capacity of 3 x 15 MW at the toe of Rajghat Dam. The Project estimate was approved by Planning Commission at 1984 price level for Rs. 37.46 crores. The revised cost at 1997 price level was Rs. 131.26 crores (Civil works Rs. 58.41 crores and E&M works Rs. 72.85 crores). The cost of civil works has been further revised at 1999 price level for Rs. 66.89 crores. The civil works of the Power House have been executed by

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Betwa River Board and E&M works by M.P.S.E.B. The total cost of civil and E&M works have to be contributed by M.P.S.E.B. under an agreement with U.P.S.E.B. with the condition that U.P.S.E.B. will refund its due share to M.P.S.E.B. with interest. The total expenditure incurred by the Board on civil works of Rajghat Power House till March, 2010 was Rs. 64.75 crores (net) whereas M.P.S.E.B. has contributed Rs. 59.51 crores and U.P.S.E.B. has contributed Rs. 5.24 crores only for civil works of Power House. All major works pertaining to the 3 x 15 MW Rajghat Power House has been completed.

The impounding of water to its full reservoir level will, however, take some more time as the works of land acquisition has not been completed due to lack of adequate financial back up.

Impounding of water during monsoon 2009 was done upto RL. 370.35 and 1175 lakh units of power were generated during the year 2009-10. The reservoir created by the Rajghat Dam has been renamed as "RANI LAXMIBAI SAGAR."

A detailed account of the activities of each year is required to be laid before each House of Parliament as per provision of Section 15 of the Betwa River Board Act, 1976. Annual Report has been prepared giving the expenditure and progress achieved during the year 2009-10.

The Board gratefully acknowledges the continued guidance, co-operation and help extended by the Ministry of Water Resources, Govt. of India, Central Water Commission, Central Electricity Authority, Water Resources/Irrigation Department of M.P. & U.P. States, State Electricity Board of M.P. and Power Corporation Ltd. of U.P. (U.P.S.E.B.), Accountant General of M.P., State Bank of India and State Bank of Indore.

Jhansi (U.P)

Date:

Secretary

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SET-UP OF BETWA RIVER BOARD

CHAIRMAN

Hon'ble Union Minister for Water Resources : Prof. Saif-Ud-Din Soz
(01/04/2009 to 22/05/2009)
: Dr. Manmohan Singh
(23/05/2009 to 28/05/2009)
: Smt. Meira Kumar
(29/05/2009 to 31/05/2009)
: Shri Pawan Kumar Bansal
(18/06/2009 to 31/03/2010)

MEMBERS

Hon'ble Union Minister of Power : Shri Sushil Kumar Shinde
Hon'ble Union Minister of State for Water Resources : Shri Jai Prakash Narayan Yadav
(01/04/2009 to 22/05/2009)
Shri Vincent H. Pala
(29/05/2009 to 31-3-2010)

Madhya Pradesh

Uttar Pradesh

Hon'ble Chief Minister	: Shri Shivraj Singh Chauhan	Sushri Mayawati
Hon'ble Minister of Water Resources/Irrigation	: Shri Jayant Malaiya	Shri Nasimuddin Siddiqui
Hon'ble Minister of Finance	: Shri Raghav Ji	Shri Lal Ji Verma
Hon'ble Minister of Power	: Shri Rajendra Shukla	Shri Ramveer Upadhaya

SET-UP OF EXECUTIVE COMMITTEE OF BETWA RIVER BOARD

CHAIRMAN

Chairman : Shri A..K. Bajaj
Central Water Commission.

MEMBERS FROM GOVT. OF INDIA

Chairman, : Shri Rakesh Nath
Central Electricity Authority
Member (WP&P) : Shri A. K. Ganju
Central Water Commission. Shri Indra Raj

Financial Adviser, : Smt. Ananya Ray
Ministry of Water Resources.
Joint Secretary (Hydro), : Shri Sudhir Kumar
Ministry of Power
Commissioner (Projects), : Shri Indra Raj
Ministry of Water Resources. Shri A.B. Pandya

MEMBERS FROM PARTNER STATES

	Madhya Pradesh	Uttar Pradesh.
Chairman State Electricity Board/ Power Corporation Ltd.	Shri Avani Vaish	Shri Navneet Saghal
Principal Secretary, Water Resources/Irrigation.	Shri Radheshyam Julaniya	Shri K.S.Auttoriya
Principal Secretary, Fisheries	Shri Seva Ram	Shri Dev Dutt Shri A.K.Gupta
Principal Secretary, Finance	Shri G.P.Singhal	Shri Anup Mishra
Engineer-in-Chief, Water Resources/Irrigation.	Shri K.C. Prajapati	Shri P.K.Singh Shri V.K.Bansal Shri Atar Singh Shri Avinash Kaushal Shri L.K.Gupta Shri R.M. Tripathi

MEMBERS FROM BETWA RIVER BOARD

Chief Engineer : Shri S.C.Gupta
Secretary : Shri R.K. Jain
Financial Adviser : Shri M.K.Ghosh

CHAPTER - I

Introduction

(1)
CHAPTER – I
INTRODUCTION

1.1 GENERAL

Bundelkhand Region spread over in Uttar Pradesh (U.P) and Madhya Pradesh (M.P) is known for its rich and multifaceted culture, priceless archaeological wealth and great historical importance. This sacred land is known for devotion and sacrifice of the Great Warriors of 1857 Rani Laxmi Bai, Veer Chhatrasal and freedom fighters Chandrashekhar Azad, Baba Prathvi Singh, Dr. Bhagwandas Mahore and Pandit Parmanand. Contribution of renowned personalities of Bundelkhand like Mahakavi Tulsidas, Keshava, Maithilisharan Gupta and Acharya Mahavir Prasad Dwivedi in the field of literature and Major Dhyanchand in Hockey have enriched the glory of Bundelkhand.

The Betwa River traverses a long distance of 654 Km. from its source near Bhopal in M.P. upto its confluence with river Yamuna near Hamirpur in U.P. and benefits both the States. The development of Irrigation in Bundelkhand region due to harnessing of the Water of Betwa had commenced before the advent of independence. The Government of U.P. constructed Parichha Weir in 1885 and laid the network of Betwa Canal system. In order to supplement the capacity of Parichha Weir, Dhukwan Weir was constructed in 1909. The canal systems under these reservoirs were basically meant for providing protection against drought and catering for marginal requirement of irrigation.

After independence, the Government of U.P. undertook the multipurpose project on river Betwa at Matatila in 1958. Besides augmenting irrigation of Betwa Canal System, Gursarai Canal System and Bhandar Canal System, Hydel Power is also being generated at Matatila with installed capacity of 30 MW (3x10 MW). The facility of irrigation was extended to M.P. through construction of Bhandar Canal System for feeding thirsty cultivated lands of Datia and Bind districts of M.P. in addition to Jhansi, Jalaun and Hamirpur districts of U.P. Samrat Ashoksagar Project in Vidisha District of M.P. across Halali river, a tributary of Betwa, is the only other major irrigation flood protection work in the Betwa Valley. The utilization of Betwa Water on the upstream in M.P. is mainly through numerous medium and minor irrigation schemes in its various

tributaries in Bhopal, Vidisha, Raisen, Guna and Sagar districts. Some of the existing medium/minor irrigation tanks in M.P. are (1) Kaliasote (2) Kerawan (3) Kethan (4) Naren (5) Pancha (6) Dahod (7) Ratapani (8) Ghoda-Pachhad.

1.2 CONCEPT OF RAJGHAT DAM PROJECT AS A JOINT VENTURE.

The water resources of Betwa Valley remained under-utilized even after construction of Matatila Dam. The Chief Ministers of U.P. and M.P. States had entered into an agreement for construction of Rajghat Dam for feeding the irrigation canals to be constructed by them. The Prime Minister of India laid the foundation stone of the Project on 14th April, 1973. The agreement was modified when the Chief Ministers of these two States discussed the matter further in December, 1973. A decision was taken to constitute a tripartite Control Board for execution of Rajghat Dam Project. Copies of Interstate Agreements dated 22.07.1972 & 09.12.1973 are appended as **Annexure –I & II.**

Accordingly, Betwa River Board Act, 1976 was promulgated by the Parliament and Betwa River Board was constituted. The Union Minister of Water Resources is the Chairman and the Union Minister of Energy, Union Minister of State for Water Resources, the Chief Ministers and Ministers in-Charge of Finance, Irrigation/Water Resources and Power of the two States are members of the Betwa River Board. General Management of the project is carried out by the Executive Committee of Betwa River Board under the Chairmanship of the Chairman, Central Water Commission, New Delhi. Decision making and Advisory Sub-Committees of the Board are shown as in **Annexure-III.**

1.3 RAJGHAT DAM PROJECT IN BRIEF

The Rajghat Dam Project consists of a 43.5 m. high and 562.5 m. long Masonry Dam across the River Betwa flanked by earth dams having a total length of 10.79 Km. and maximum height of 29.50 m. The Rajghat Dam Project would provide irrigation to 1.38 lakh ha in U.P. and 1.21 lakh ha. in M.P. Construction of Canal System for irrigation has been taken up by both the States in their territories. Proposal for generation of Hydel Power from water releases for irrigation at the toe of dam was added later on to the original concept of the project. The civil works for Rajghat Dam, Power House and appurtenant works have been executed by the Betwa River Board and Electrical/Mechanical works of the Power House by Madhya Pradesh State Electricity Board (M.P.S.E.B). Salient features of Rajghat Dam Project are given in **Annexure-IV.**

1.4 ESTABLISHMENT OF THE OFFICE OF THE BETWA RIVER BOARD.

The Board Office was established in February, 1978 with its headquarters at Jhansi. Office of Chief Engineer, Rajghat Dam Project, Secretary, Betwa River Board and Financial Adviser, Betwa River Board were established at Jhansi and field offices at Rajghat (Lalitpur) & Chanderi (Guna) were established during the year 1979-80. M.P.S.E.B., associated with the construction of Rajghat Hydro Electric Project, was permitted to open its offices at Chanderi Colony of Betwa River Board. The organization chart showing the Administrative Offices and field units is appended as Annexure-V.

1.5 PROJECT REPORT AND COST ESTIMATE.

Project Report of Dam portion and allied works with an estimated cost of Rs. 123.22 crore was approved by the Technical Advisory Committee of Planning Commission in July 1980. Administrative approval for the project for Rs. 123.22 crore was accorded by the Executive Committee in its 18th meeting held on 17.11.1983. The Project work was scheduled to be completed by June 1986 as planned originally.

Due to constraint of funds, the work could not be completed by June 1986 and therefore, revision of the project estimate due to escalation in cost of materials and labour became necessary. The revised project estimate was prepared and submitted to the Central Water Commission for technical scrutiny. The revised estimate of Rs. 213.66 crore was technically examined by the Central Water Commission during September 1987. The Executive Committee in its 41st meeting held on 01.08.1989 accorded concurrence to the estimate of Rs. 213.66 crore.

Due to paucity of funds, the project could not be completed upto 1995 which resulted into further revision in cost. The revised project cost at January 2000 price level was Rs. 300.60 crore and the same has been recommended by the Technical Advisory Committee of Ministry of Water Resources in October 2000 for approval. The cost has increase further by Rs. 83.03 crore over January, 2000 estimate due to pending liabilities and residual works. The revised cost estimate is Rs. 383.63 crore.

Central Electricity Authority accorded techno-economic approval to Rajghat Hydro Electric Project of 45 MW (3x15 MW) in May 1985 at an estimated cost of Rs. 37.47 crore.

The Project Report was prepared by the MPSEB. The estimate was revised to Rs. 101.13 crore at 1992 price level and revised project estimate was submitted to Central Electricity Authority for clearance. Further revised cost at March 1997 price level was Rs. 131.36 crore (Civil works Rs. 58.41 crore plus Electrical & Mechanical works Rs. 72.85 crore). The cost of civil works has been further revised by the Chief Engineer, Rajghat Dam Project at December 1999 price level as Rs. 66.89 crore.

1.6 BUDGET AND FUNDS.

According to the provisions under section 13(i) of the Betwa River Board Act 1976, the entire expenditure on Rajghat Dam, Rajghat Power House and appurtenant works and all other expenditure incurred by the Board is to be shared equally by both Uttar Pradesh and Madhya Pradesh as proposed in the budget of the Board. A fund called "Betwa River Board Fund" has been established in the State Bank of India at Jhansi, Lalitpur and Rajghat and its subsidiary State Bank of Indore at Chanderi. The States of U.P. and M.P. contribute their share of the "Betwa River Board Fund" in installments. The status of contributions made by U.P. and M.P. upto 31st March, 2010 for Rajghat Dam is given below:-

Status of contribution by U.P. & M.P. and Cumulative Expenditure:- (Rs.Crore)

Period	Contribution by U.P.	Contribution by M.P.	Total Contribution	Expenditure	Cumulative Expenditure
1978-79 to 1997-98	132.85	87.09	219.94	215.62	215.62
1998-99	NIL	NIL	NIL	6.98	222.60
1999-00	NIL	26.95	26.95	14.63	237.23
2000-01	NIL	18.05	18.05	15.48	252.71
2001-02	NIL	NIL	NIL	6.11	258.82
2002-03	NIL	NIL	NIL	9.22	268.04
2003-04	NIL	2.80	2.80	10.78	278.82
2004-05	NIL	15.415	15.415	8.95	287.77
2005-06	17.45	-	17.45	9.04	296.81
2006-07	NIL	NIL	NIL	10.74	307.55
2007-08	6.65	11.40	18.05	10.11	317.66
2008-09	6.75	4.50	11.25	18.88	336.54
2009-10	10.00	4.50	14.50	16.41	352.95
GRAND TOTAL	173.70	170.705	344.405	352.95	

During the year 2009-10, a net expenditure of Rs. 16.41 crore was incurred on the dam under O&M head. The cumulative net expenditure as on 31.03.2010 is Rs.352.95 crore.

For the construction of Rajghat Power House, it has been jointly agreed by U.P.S.E.B. (Now U.P.P.C.Ltd.) and M.P.S.E.B. that initially M.P.S.E.B. would fund the Power Project fully and share of U.P.P.C. Ltd. Would be treated as a loan from M.P.S.E.B. to be repaid by U.P.P.C. Ltd. With interest in 10 equal yearly installments. M.P.S.E.B. has contributed funds to Betwa River Board for civil works of Power House. For Electrical & Mechanical works, M.P.S.E.B. incurs expenditure directly as the said work is being done by it as Deposit Work on behalf of the Betwa River Board.

The contribution made by M.P.S.E.B. to Betwa River Board up to 31st March 2010 for construction of civil works of Rajghat Power House is as under:-

Status of Contribution by M.P.S.E.B. for civil works of Power House.

(Rs. In Crore)

Period	Contributed by M.P.S.E.B.
1997-98	47.77
1998-99	6.00
1999-00	3.50
2000-01	1.14
2001-02	1.10
2002-03	NIL
2003-04	NIL
2004-05	NIL
2005-06	NIL
2006-07	NIL
2007-08	NIL
2008-09	NIL
2009-10	NIL
Grand Total	59.51

An expenditure of Rs. 0.74 crore (net) has been made on civil works of the Hydro Electric Project during the year 2009-2010. The total net expenditure up to 31.03.2010 is Rs. 64.75 crore. The accounts of Rajghat Dam and civil works of Hydro-Electric Project (Civil works) are maintained by the Betwa River Board separately whereas accounts of the Electrical & Mechanical works of Hydro-Electric Project are maintained by the M.P.S.E.B. as it is incurring expenditure directly.

1.7 ENVIRONMENT AND FOREST CLEARANCE.

The environmental and forest clearance for the Project was accorded by the Ministry of Environment & Forest vide their letter No. 8-275/87 FC dated 14.09.1990. The clearance has been given on the condition that Project Authorities shall ensure the following safeguards:-

1. Compensatory afforestation in the alternative land made available outside the submergence area.
2. Providing 0.5 Km. wide green belt around the periphery of the reservoir.
3. Soil conservation measures in a belt of 9.5 Km. around the periphery of the reservoir beyond 0.5 Km. wide green belt.
4. Catchment area treatment in upstream of Rajghat Dam.

An area of 626.07 ha. forest land in U.P. and 1085.237 ha. forest land in M.P. are coming under submergence of Rajghat Dam Project. The work of afforestation is to be done by respective Forest Departments of Uttar Pradesh and Madhya Pradesh. Total amount of Rs. 154.62 lakh and Rs. 108.52 lakh have been made available by the Board to the respective Forest Departments of U.P. and M.P. States up to 31.03.2006 for compensatory afforestation. Till March 2006, 626.07 ha. and 427.55 ha. of land for aforesaid work have been made available to respective Forest Departments of U.P. and M.P.

A 0.5 Km. wide strip for green belt around the periphery is proposed to be developed as silt-control measure. An estimate of Rs. 1939.73 lakh has been prepared for developing the green belt. The green belt is to be developed by Agriculture & Forest Departments of the two States for private and forest land respectively. The work of demarcation of green belt has been completed by Betwa River Board. There has been no progress on this work in both the States till 31.03.2010.

The catchment area treatment and soil conservation measures are not included in the project estimate formulated by Betwa River Board. Agriculture and Forest Departments of both the State have been requested to carry out the works on their own. There has been no progress on catchment area treatment work in both the states till March, 2010.

1.8 POSITION OF STAFF.

As per Betwa River Board Act 1976, the officers and staff for this Project are to be taken on deputation from the States of U.P. and M.P. on 1:1 basis as far as possible. The regular sanctioned staff strength at present has been reduced to 224. Against this, only 17 regular employees were on roll as on 31.03.2010 i.e. 7.59% of the sanctioned posts.

In addition, Betwa River Board has 258 work charged employees and 441 daily waged employees. The position of staff (regular) from 01.04.2009 to 31.03.2010 is given in Annexure-VI.

1.9 AMENITIES.

The Betwa River Board has provided basic amenities like residential accommodation, sanitation, medical facilities, education and recreation to its employees.

The details are as under:-

- (i) Primary and Junior High School at Rajghat Dam Project site.
- (ii) Hospital at Rajghat with necessary paramedical staff and dispensary at Jhansi colony
With facilities of part-time doctors.
- (iii) Facilities like Post Office, Marketing Center, Fair Price and Ration Shops, Flour Mill, Bus Stand and Filtered Water supply at Rajghat.

CHAPTER – II

Construction Planning of the Project and Achievements

(8)
CHAPTER – II
CONSTRUCTION PLANNING OF THE
PROJECT AND ACHIEVEMENTS

2.1 CONSTRUCTION PROGRAMME

The Executive Committee in its 12th meeting held on 31.07.1981 had approved a Construction Programme for completing the Rajghat Dam by June, 1986. The construction work could not proceed as planned for want of adequate funds. In the 8th meeting of Betwa River Board held on 12.06.1985, a construction programme of seven years from 1985-86 to 1991-92 was approved. The project could not be completed even as per revised programme.

With a view to derive interim benefits from the investments already made on the construction of the dam, the Executive Committee in its 49th meeting held on 21.01.1992, decided to impound water up to crest level and to increase irrigation intensity in 34000 ha. of land in M.P. and U.P. through existing canal systems. The improvisation was termed as Phase-I of the Project. In the 14th meeting of Betwa River Board held on 18.08.1993, it was decided that the target date of completion of Rajghat Dam and Power House may be extended up to September, 1996.

In subsequent meetings of the Executive Committee, the progress of Rajghat Dam was reviewed and completion period was extended several times. Partial filling of Rani Laxmi Bai Sagar was continued since 1992 for the use of irrigation by both the States. The Phase-II of construction of Dam up to top level was almost completed with installation of Radial Gates in 1999-2000. Since then the impounding of water is being done regularly for generation of power and irrigation in both the States. The water released for power generation at Rajghat Power House is re-used at Matatila Power Project for power generation before irrigation.

2.2 ACHIEVEMENTS DURING 2009-10

The status of various component works as on 31.03.2010 and achievements of the year 2009-10 are described as below:-

RAJGHAT DAM PROJECT.**(a) EARTH DAM**

The construction of earth dam in its entire length has already been completed along with upstream stone pitching, downstream seepage drains, service road on the top of Dam and parapet wall etc. The length of the Left Earth Dam is 8.58 Km. and that of Right Earth Dam is 2.21 Km. Thus 10.79 Km. long Earth Dam has been completed in all respects along with black-topped road on top of the Dam.

(b) MASONARY DAM.

The construction of masonry non-over flow dam and spillway structure comprising of 519 th.cum. of excavation, 265.526 Th.cum. of masonry and 223 Th.cum. of concrete was awarded to M/s N.P.C.C. Ltd., a Govt. of India undertaking, in the year 1981. The contractor has completed all excavation masonry and concreting of the dam in March, 2002.

(c) DOWNSTREAM TRAINING WALLS.

Training walls on the left and right of masonry dam have already been completed under two different contracts.

(d) DESIGN, SUPPLY, FABRICATION & ERECTION OF RADIAL CREST GATES.

The work of design, supply, fabrication & erection of 18 numbers radial crest gates was awarded to Central India Machinery Manufacturing Company (CIMMCO), Bharatpur in October, 1989. The contractor has completed the design, supply, fabrication & erection of gate components. The progress of gate erection work achieved upto 31st March, 2009 is as under:-

(Quantities in Numbers)

Sl.No.	Particulars	Total	Cumulative Progress.
1.	Fabrication & supply of radial crest gates	18	100%
2.	Supply & erection of yoke girders & anchor girders	36	100%
3.	Erection of Radial Gates	18	100%
4.	Rectification of defects pointed out by CWC and field officers		The rectification of defects is still to be done.

(e) STOPLOGS FOR CREST GATES AND GANTRY CRANE.

The work of erection of stop log for crest gates was awarded to M/s Om Metals & Minerals, New Delhi in September, 1989, but the contract had to be terminated due to failure on the part of the contractor in 1993. The work was awarded to M/s Precision Technofab, Ahmedabad on 25.07.1994. All 21 stop log units & Gantry Crane have been fabricated, supplied and erected by 03/1999. Testing at full pond level in each bay for stop log gates and gantry crane is still to be done.

(f) CONSTRUCTION SLUICES.

Six construction sluices had been provided in the spillway portion. Two sluice barrels were plugged with concrete in June 1992 and remaining four sluice barrels were kept operative for depleting the impounded storage for irrigation and power generation as contemplated under Phase-I of project construction. Remaining 4 sluice barrels were plugged with concrete in the year 1999-2000.

(g) DESIGN, SUPPLY & ERECTION OF GATES FOR IRRIGATION SLUICES.

This work was awarded to M/s Hydro Control & Equipment Devices, Indore in September, 1987. The firm, however, could not complete the work and the work was awarded to M/s United Engineers, Kanpur on 16.01.1995. The work of design and fabrication of gates had been completed by the agency. The work of erection of emergency gate in each sluice was completed during 2001-2002 and the balance work of hoists is in progress.

(h) ELEVATOR FOR FOUNDATION GALLERY.

The work was awarded to M/s City Lifts India in July 1994 with due date of completion in July 1995. The firm had not completed the fabrication of lift including erection in place. The balance work was awarded to M/s Quality Elevator, Bhopal for an amount of Rs. 1.63 lakhs. The work has been completed.

(i) CANAL HEAD REGULATOR.

Three outlets have been provided in the embankment for release of irrigation water to various canals. Civil work and installation of gates of Upper Rajghat Canal, Lower Rajghat Canal (Right Flank) and Rajghat Canal (Left Flank) have been completed. Hoisting arrangements for LBC & LRC have been completed.

RAJGHAT POWER HOUSE.

The work of Rajghat Power House at the toe of Dam has been completed and has been in operation generating electricity since 10/1999. The year-wise generation and detailed status of main components of Rajghat Power House are as under:-

Year-wise Power Generation:-

Years	Units generated in lakh units
1999-2000	280.00
2000-2001	572.00
2001-2002	1047.00
2002-2003	676.70
2003-2004	1431.86
2004-2005	942.53
2005-2006	1328.67
2006-2007	1335.00
2007-2008	518.00
2008-2009	1320.00
2009-2010	1175.00

(a) INTAKE GATES WITH HYDRAULIC HOIST.

Intake Gates along-with Hydraulic Hoist have already been erected, tested and put to normal operation.

(b) POWER HOUSE BUILDING.

The main Civil Works of Rajghat Power House complexes, awarded to M/s NPCC Ltd., have been completed by December, 1998. The entire work of service bay, cable trench, storm water drainage system and construction of boundary wall of Power House have also been completed.

(c) STOPLOG GATE INCLUDING LIFTING BEAM.

The work of supply and erection of stop log has been completed by M/s United Engineers, Kanpur to whom the work was awarded. The stop log gates are already in operation.

(d) GANTRY CRANE FOR STOPLOG GATES.

The work of fabrication and erection of gantry crane for stoplog gates was awarded to M/s Precision Technofab & Engg. Co., Ahmedabad. The work has been completed.

(e) DRAFT TUBE GATES & ITS GANTRY CRANE.

The work of draft tube gates of size 3.55 m. x 3.90 m. and its gantry crane has already been completed and made operational.

(f) TAIL RACE CHANNEL.

The concreting in the channel bed upto its control crests and upto 100 m. down stream has been completed and made functional. The details of quantities executed are as under:-

Excavation	:	32,962 Cu.m.
Concreting	:	4,030 Cu.m.

(g) FIRE FIGHTING & AIR VENTILATOR SYSTEM.

The civil work of fire fighting and air ventilator system for the safety of Rajghat Power House has been completed.

PERFORMANCE OF RAJGHAT DAM

FRL-371 Meter
Total Capacity-76.69 TMC

S.NO.	YEAR	RAINFALL IN MM	MAX.RESERVOIR LEVEL IN METER	MAX.RESERVOIR CAPACITY IN TMC
1	2004-2005	850	370.20	71.66
2	2005-2006	778	370.25	71.92
3	2006-2007	666	370.25	71.92
4	2007-2008	592	366.75	49.42
5	2008-2009	1078	370.15	71.39
6	2009-2010	647	370.40	72.78

Note: Betwa River Board is unable to fill the reservoir up to its full capacity i.e. RL 371 Meter due to non disbursement of compensation of Land and Property in respect of village Aera and Paronda. Presently Rajghat Dam is being fill up to RL 370.40 M. The usefully storage is shared by both party states i.e. U.P. and M.P.in 50%-50% ratio. Water is being utilised through their own canal system and irrigation is recorded by them.

(a) Potential created & Actual Irrigation**Potential created & Actual Irrigation**
For the year 2009-2010

(Area in Hect)

Sl.No.	States	Design Irrigation	Potential created upto 3/2010	Actual Irrigation
1.	M.P.	1,21,450	1,21,450	97,206
2.	U.P.	1,38,661	1,38,661	1,07,243
	Total	2,60,111	2,60,111	2,04,449

Note: Irrigation depends on water availability in Reservoir and climatic conditions.

FISHERIES IN RAJGHAT DAM

The revenue received on a/c of fisheries in Rajghat Dam submergence area is detailed below:-

S.NO.	YEAR	REVENUE RECEIVED FROM TENDER/AUCTION IN RS. LAC
1	2004-2005	33.03
2	2005-2006	38.40
3	2006-2007	32.95
4	2007-2008	48.31
5	2008-2009	72.55
6	2009-2010	55.28

2.3 STATUS OF CONTRIBUTION OF FUNDS.**(a) RAJGHAT DAM**

Govt. of U.P. has contributed Rs. 173.70 crores and Govt. of M.P. has contributed **Rs.** 170.705 crores upto March, 2010 against their share . Budget estimate of Rs. 53.06 crore for the year 2010-2011 was approved by Executive Committee in its 83rd Meeting held on 24.12.2009 vide Item No. A 83 (III).

(b) RAJGHAT HYDRO ELECTRIC POWER PROJECT.

Budget Estimate of Rs. 50.00 lakh for civil work of Rajghat Hydro Electric Power Project for the year 2008-09 was approved. M.P.S.E.B. has not contributed during the year 2009-2010..

2.4 MACHINERY & EQUIPMENTS.

Betwa River Board had procured Machine/Equipments for the project. Since the project is almost complete, it is proposed to dispose off the surplus machinery/equipments. The Executive Committee in its 70th meeting held on 24.01.2000 approved; vide Item No.A-957, the disposal of the following surplus vehicles and machinery of Rajghat Dam Project through sealed bids or auction as per rules and procedure laid down by Govt., of India in CPWD manual volume-II or by DGS&D on the subject. The Committee further nominated following officers to finalize the disposal activities:-

- | | | | |
|-------|--|---|-------------------|
| (i) | Financial Advisor, Betwa River Board, Jhansi | - | Member |
| (ii) | Superintending Engineer,
Tube wells, U.P. Irrigation Deptt., Jhansi
(as a nominee of U.P.) | - | Member |
| (iii) | Director, CMU, WRD, Bhopal
(as a nominee of M.P) | - | Member |
| (iv) | Superintending Engineer,
Rajghat Dam Circle, Rajghat. | - | Member-Secretary. |

The Status of Machinery and Equipments are as given below :

Sl.No.	Machinery & Equipments	No.	No. of Machinery & equipments disposed off
1.	Motor Grader	2	1
2.	Honomag Crawler Tractor	2	-
3.	Double Drum Sheep Foot Roller	3	3
4.	Vibratory Compactor	1	-
5.	Single Drum Sheep Foot Roller	1	-
6.	Coles Crane Hydro 80/88 Tonnes	1	-
7.	Fodder Truck Trailer	1	-
8.	Coles Crane 12 Tonnes	1	-
9.	Escort Crane 8 Tonnes	1	-
10.	Atlas Compressor (20 cfm)	1	1
11.	Diesel Road Roller	2	1
12.	Trucks	4	3
13.	Buses	4	2
14.	Fire Fighter	1	1
15.	Ambulance	1	-
16.	Water Tankers	2	1
17.	Diamond Core Drilling Machine	1	1
18.	Concrete Mixers	6	4
19.	Jak Hammer	6	5
20.	Concrete Vibrator	4	1
21.	Tractor Trolley and Tractor Tanker	2+1	-
22.	Transformer	2	3
23.	Lathe Machine	2	-
24.	Tractor	2	-
25.	Diesel Pump	11	8
26.	Electric Vibrator	5	-
27.	HGR-40,Grinder	3	-
28.	Petrol Jeep	4	2
29.	Diesel Jeep	14	-
30.	Ambassador Staff Car	5	-
31.	Ambassador Station Wagon	2	1
	Total No. of Equipments	96	38

2.5 LAND ACQUISITION AND REHABILITATION.

Details regarding number of villages affected, land and property acquired and amount disbursed for acquisition of land and property and rehabilitation in both the States are given in **Annexure-VII.**

Policy/Norms adopted for Land Acquisition & Rehabilitation, Resettlement & Payment of Compensation approved in 4th Board meeting held on 19.02.1982 are given in **Annexure-VIII.**

The land acquisition in 13 villages of U.P. area is being done by private negotiation in which the land acquisition in 11 villages is almost completed and is in progress in remaining 2 villages.

2.6 QUALITY CONTROL MEASURES.

During the year 2009-2010, tests for compressive strength of various mixes of cement concrete used in Power House were carried out. These tests were carried out as per IS 456-1978 and the results indicated that there was adequate control. The civil works are nearing completion and the number of tests required to be carried out has decreased substantially. The abstract of tests conducted during 2009-2010 is as tabulated below:-

Sl.No.	Particulars	Type of Mix concrete used in Power House	
		M-100	M-200
1.	Strength of design mix (Kg/Cm ²)	130	260
2.	28 days characteristic compressive strength (Kg/Cm ²)	100	200
3.	No. of samples	Nil	Nil
4.	Average strength achieved (Kg/Cm ²)	Nil	Nil

2.7 HYDROLOGICAL STUDIES.

Hydrological observations were recorded at Dhaurra gauge site on the tributary of River Betwa upstream of Rajghat Dam during monsoon period of previous years. Hydrological data was also collected from Ganj Basoda site of C.W.C. on River Betwa as and when required. These data could not be collected this year. However efforts are being made to collect these data from Ganj Basoda gauge site.

These observations are used for deciding the gate operation schedule during floods in the monsoon season.

CHAPTER – III

Meetings

MEETINGS

3.1 MEETINGS OF BETWA RIVER BOARD

Meeting of Betwa River Board could not be held during the year 2009-10.

3.2 MEETINGS OF EXECUTIVE COMMITTEE OF BETWA RIVER BOARD

Two meeting of the Executive Committee of Betwa River Board was held during the year 2009-10 under the Chairmanship of Chairman, Central Water Commission, Govt. of India, Ministry of Water Resources, New Delhi as detailed below:-

S. No.	Meeting	Date	Chairman
1.	82 nd meeting	09-07-2009	Shri A.K. Bajaj
2.	83 rd meeting	24-12-2009	Shri A.K. Bajaj

The list of members who attended the meeting is given at Annexure- IX
Important decisions taken in the above meetings are summarized below:-

82nd MEETING

Item No.A-74-XXI: The Principal Secretary, MPWRD informed that the Water Charges have not been included in the rates fixed by Tariff Regulatory Commission of M.P and as such MPSEB is unable to recover the same from then concern. The matter is under consideration with the Energy Department. The Water Charges from 01-04-2009 are likely to be paid to the BRB after approval from Energy Department.

The Chairman of the Executive Committee suggested to the Principal Secretary, MPWRD that Energy Department, MP may make a one time budget provision for the water charges of previous years and release the payment to the Board.

Item No.A-75(XI): Secretary, BRB explained the Agenda and informed that Fisheries Departments of both the States were to send their comments/proposals but these have not been received from either of the party states. The representative from both the party states agreed that BRB may continue with the existing arrangements.

Item No.A-76 (V): Secretary, BRB informed the Committee that this project was started in the year 1978 and completed in the year 1999, so the observations related to R&R Plan are not mandatory for this project.. The

Chairman of the Executive Committee desired that the Member (WP&P), C.W.C may look in to the matter and resolve the issue.

- Item No. A-76(X)** The representative of U.P assured the Committee that matter is under their consideration and action shall be taken at the earliest.
- Item No.A-77-(VI)** The Committee desired that the payment made by Government of U.P. will be credited to their share and this item be closed.
- Item No.A-79(XIII)** Secretary, BRB informed that this matter is still pending in Finance Ministry, Govt. of India, Commission (Projects),MOWR was requested to pursue the case with Finance Ministry, Government of India to get the Gazette Notification issued at the earliest.
- Item No.A-80(III)** The Committee approved the expenditure of Rs.13.13 Crore for the year 2008-09 against O&M head.
- Item No.A-80-(VII)** The Executive Committee is the view that the formulation of Joint Board is under consideration and is likely to be constituted soon. Hence this matter can be decided by the Joint Board.
- Item A-80-(XIII)** The Executive Committee decided that the amount of interest earned on advance given by M.P. Govt. amounting to Rs.76.79 lakhs will be credited to the share of M.P and this item may be closed.
- Item No.A-81(III)** Secretary, BRB informed the Committee in details regarding budget estimates. Both the party States have been requested for making provision in their budget accordingly..
- Item No.A-81(VIII)** The Committee formed a Sub-Committee to deal with the Serviced matters and other issues of Rajghat Dam Project and the same shall be decided by the Sub-Committee as per rule. The members of Sub-Committee are as follows:-
1. Chief Engineer, Rajghat Dam Project - Chairman
 2. Financial Adviser, BRB - Member
 3. Secretary - Member
- Secretary
- Item No.A-81(IX)** The representatives of U.P. & M.P. state Governments do not agree for reconsideration of confirmation date from the date of appointment. The Committee decided to defer the matter to the new Joint Board being formed and to close this items here.
- Item No.A-81(X)** The representatives of U.P requested that the views/ comments of M.P. Government may be forwarded to the Government of U.P, so that they may firm up their views/comments after examining the case and send it to BRB..
- Item No.A-82(III)** The Committee suggested that a proposal may be taken from C.I.S.F. with estimate /expenditure. After obtaining the report of C.I.S.F. the same may be put up to Executive Committee for further necessary action.
- Item No.A-82(IV)** The Committee approved the Draft Annual Report with Annual Account for the year 2006-07.

Item No.A-82(VI) The representatives of both the States assured to the Ministry/Betwa River Board that they will sent their comments/views after mutual consultation among themselves.

Item No.A-82(VII) The Executive Committee approved the engagement of Shri P.N.Varma, as Legal Adviser- cum- Legal Counsel of BRB on contract basis for a period of one year from 01-04-2009 to 31-03-2010 on the existing terms and conditions.

The Executive Committee approved the engagement of Shri Subodh Kumar Varma, Advocate as Law Assistant in BRB on contract basis for a period of one year from 01-04-2009 to 31-03-2010 on the existing terms and conditions.

Item No.A-82(VIII) The Committee approved the honorarium of Rs.50.00 per month to the clerk attached to Special Land Acquisition Officer, Lalitpur and authorized the Chief Engineer (R) to decide such type of matter in future.

Item No.82(IX) The Committee approved the proposal of Financial Advisor, BRB to open the Provident Fund Account in State Bank of India at Rajghat.

Item No.A-82(X) The Committee approved the proposal of Special Pay on the basis of 6th Pay Commission to the following officers of the BRB.

1. Dy. Director	1 Post	Rs. 800/- PM
2. P.A (T) /E.A.O. to CE®	1 Post	Rs. 800/- PM
3. Sr.Accounts Officer	1 Post	Rs. 800/- PM
4. Accounts Officer	1 Post	Rs. 400/- PM
5. A.E (Attached)	1 Post	Rs. 400/- PM
6. PAO	1 Post	Rs. 400/- PM

The Committee also approved the re-designated post of Personal Assistant (T) to Chief Engineer (R) as Engineering Administrative Officer to CE(R).

Item No.A-82(XI) The Committee approved the proposal for revision of Pay Scale of Junior Engineer in BRB from 4500-7000 to 5000-8000 (Pre-revised) with the revision of Grade Pay to Rs.4200 in Pay Band-2 (9300-34800) as per 6th Central Pay Commission, This will be applicable from the date of issue of order

83rd MEETING

Item No. A-74-XXI: The representative of MPPGCL informed that the matter is under consideration with MPWRD. The Principal Secretary, MPWRD informed that MPPGCL has to pay current water charges regularly as per agreement to BRB. Regarding the arrears payable by

MPGCL on behalf of MPSEB, Principal Secretary, MPWRD assured the Committee that they will take up the matter for making a special budget provision for the water charges of previous years for making payment to the BRB and also make payment regularly in future.

Item No. A-75(XI) : The Principal Secretary, MPWRD objected to the proposal of auction of Fishing Rights for 3 years because the Fisheries Departments of both the party States have agreed to the common proposal and their comments would be submitted in near future. After detailed discussions, the committee decided that the proposed Joint Board will decide the matter for development and management of fisheries as the proposal for Joint Board is in advanced stage.

Item No. A-76 (V). The Member, (WP&P), CWC informed the Committee that the Revised Cost Estimate of Rs. 383.63 Crore at the Price level of 2006 of Rajghat Dam Project will be placed before the T.A.C. The matter will be put up before the next meeting of T.A.C. for approval.

Item No. A-76 (X) : The representative of U.P. State informed that the matter is under process and action shall be taken at the earliest.

Item No.A-79(XIII) :Secretary, BRB informed the Committee that the Law Ministry advised that Notification in this regard may not be issued as of now as the matter is pending in the Hon'ble High Court. On a query raised by Sr.Joint Commissioner, MOWR, Secretary BRB informed that they have made an appeal in the High Court on the decision of the Lower Court (Labour) in this regard. Sr. Joint Commissioner, MOWR suggested that advice in this regard may be taken from the expert lawyer and appropriate decision may be taken in the matter whether to go on for litigation or implementing the orders of lower court in this regard.

Item No. A- 81 (III) : Chief Engineer(R) informed the Committee that the BRB is unable to fill the reservoir upto its full capacity i.e. R.L. 371.00 M. due to non disbursement of compensation of Land in respect of village Aera & Paronda. An amount of Rs. 195.37 lakh is urgently required to be deposited in the office of Special Land Acquisition Officer, Lalitpur before 19.01.2010 otherwise the notification issued earlier will expires. The Principal Secretary, U.P. State assured that appropriate action will be taken immediately. The Principal Secretary, M.P.WRD also assured the Committee that action will be taken to release their balance due share upto March, 2010.

Item No. A-81(X): Secretary, BRB informed the Committee that the comments of M.P. Government on the issue have already been sent to U.P. Government for furnishing their comments which are still awaited. The representative of U.P. assured the Committee that their comments will be provided to BRB very shortly.

- Item No. A-82 (III):** The Principal Secretary, MPWRD informed the Committee that sufficient trained Armed Home Guards are available with them and they can be provided on payment basis to BRB. The Betwa River Board will send the detailed proposal to the Principal Secretary, MPWRD so that they send the cost estimates etc.
- Item No. A-82 (VI):** The Committee decided that the new R&R for relaxing the qualification etc. will be sent by BRB to MOWR for consideration. The Committee also advised that the charge of Secretary may be given as an additional charge to Superintending Engineer of the participating State. The representative of U.P. assured the Committee that they will examine the matter and arrange to send suitable proposal for the post of Secretary & Superintending Engineer for BRB
- Item No. A-83(III):** The Committee approved Rs. 53.56 Crore (Rs. 32.68 Crore Capital & 20.88 Crore O&M) as budget estimate for the year 2010-11 for BRB. The Committee also decided that the Chief Engineer, Rajghat Canal Project, MPWRD, Datia may be nominated as Nodal Officer from the M.P. Government and Chief Engineer (Betwa), UP Irrigation Department, Jhansi as Nodal Officer from the side of U.P. Government.
- Item No. A-83(IV):** The Committee authorized the Chairman of the Executive Committee to approve the Accounts prepared by Chartered Accountant for submission to AG office for Audit. The Committee also agreed that the Audited Accounts may also be accepted by Chairman of the Executive Committee for inclusion in the Annual Report. This step is being taken so that Annual Report of BRB can be laid on the table of both the Houses of Parliament in time. The Executive Committee will ratify the accounts in the next meeting. After brief discussion the Executive Committee approved the Annual Accounts of BRB for the year 2007-08 as proposed in the Agenda Item No. A-83(IV).
- Item No. A-83(V):** The Committee approved the proposal of BRB to collect the water charges from the farmers who were utilizing reservoir water through lifting by pumps as per norms applicable in their respective States (U.P/M.P).
- Item No. A-83(VII):** The representative of U.P. Informed the situation in brief but the representative of M.P. raised some observations on the points explained by U.P. After detailed discussions the Committee decided that water may be shared amongst the Party States on the basis of earlier agreement between Hon'ble Chief Ministers of U.P. & M.P. in the year 1973.
- Item No. A-83(VIII):** The Committee decided that the matter may be deferred to the next Executive Committee meeting, so that Madhya Pradesh can examine the proposal and after their comments.

Item No. A-83(IX) The Principal Secretary, Irrigation Department, U.P. Government informed that they will examine the matter and take necessary action immediately.

3.3 SUB-COMMITTEE MEETINGS.

Sl.No.	Name of Sub-Committee	
1.	Contract Works Sub-Committee for the work of Project (For cases beyond Chief Engineer's Power)	No meeting was held
2.	Claims Sub-Committee (For claims of M/s HSCL)	No meeting was held
3.	Claims Sub-Committee (For claims of M/s NPCC Ltd.)	No meeting was held
4.	Sub-Committee for Land Acquisition and Rehabilitation. Sub-Committee for Selection of Staff	No meeting was held
5.	2 For Group 'A' 3 For Group 'B' 4 For Group 'C' Environmental Monitoring Sub-Committee Water Management Committee for ensuring proper distribution of Water of Rajghat.	No meeting was held No meeting was held No meeting was held No meeting was held Two meeting were held
6.	2. Audit Paras Sub-Committee	
7.	3. Audit Paras Sub-Committee on S.F.I.	No meeting was held
8.	Contract Works Sub-Committee For cases within Chief Engineer's Power Cases within S.E.'s Power	No meeting was held
9.	Cases within E.E.'s Power Sub-Committee for Monitoring the progress of Works of Rajghat Dam and Power House Project. Sub-Committee for Disposal of Surplus Vehicles and Machinery of the Betwa River Board, Jhansi.	No meeting was held No meeting was held No meeting was held
10.	Sub-Committee for dealing the Service Matters of all employees of the Board and Service Rules for filling up the posts for O&M activities.	No meeting was held
11.		No meeting was held
12.	Sub-Committee for Proper Development of Fisheries in Rajghat Dam Reservoir (Rani Laxmi Bai Sagar)	No meeting was held

CHAPTER – IV

Audit Report on the Accounts of Betwa River Board, Jhansi for the year 2009-2010

Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of Betwa River Board Jhansi for the year 2009-10

We have audited the attached Balance Sheet of Betwa River Board (BRB), Jhansi as on 31st March, 2010 and the Income & Expenditure Accounts/Receipts & Payment Accounts for the year ended on that date under Section 19 (2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 16 of Betwa River Board Act, 1976. These financial statements include the accounts of Seven units of Betwa River Board's Management. These financial statements are the responsibility of the BRB management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only, with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules and Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc. if any are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with Auditing Standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on the test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the over all presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

(i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit:

(ii) The Balance Sheet and Income and Expenditure Accounts/Receipts & payment Accounts dealt with by this report have been drawn up in the format approved by Govt. of India, Ministry of Finance.

(iii) In our opinion proper books of accounts and other relevant records have been maintained by Betwa River Board, Jhansi, as required under Section 16 of Betwa River Board Act, 1976 in so far as it appears from our examination of such books.

(i) We further report that:

**A. Balance Sheet
Assets**

(i) Current Assets Loans and Advances (Schedule-II)

1. Inventories

(a) Store & Spares Rs.39,11,680

Inventories have been valued after netting the minus balance of Rs. 1,53,43,621 under stock suspense for last several years. As a result of netting, the inventories have been understated by Rs.1,53,43,621 and corresponding liabilities understated by the same amount.

(b) Minus balance of Rs. (-) 15343621.00 was shown in closing balance on Monthly accounts of March 2010 in Stock head of Financial Advisor records but during scrutiny of the Accounts of Executive Engineer, Power House (civil) & Store Division, Rajghat an amount of Rs. (-) 1,23,27,027,00 found closing balance of March 2010. The difference of Rs. (-) 30,16,954.00 in stock accounts needs reconciliation/rectification with reasons for minus balance in stock head.

B. Impact of Audit comments on Balance Sheet, Income and Expenditure Accounts.

The net impact of the comments given in the preceding paragraphs was that, as on 31st March, 2010 of previous year, the current assets, loans and advances were understated by Rs.1.53 crore.

C. Grant- in – aid/ Contribution

No grant-in-aid was received by the Board. However, contribution from both the participating States (Madhya Pradesh and Uttar Pradesh)amounting to Rs. 14.5 crore was received by the Board (2009-2010), and the same was utilized during the current year 2009-2010.

D. Management letter

Deficiencies which have not been included in the Audit Report have been brought to the notice of Secretary, Ministry of Water Resources, Govt. of India and Ex-officio Chairman, Executive Committee, Betwa River Board through a management letter issued separately for remedial/corrective action.

Subject to our observations in the preceding paragraphs we report that the Balance Sheet and Income &Expenditure Accounts and Receipt and Payment Account dealt with by this report are in agreement with the books of accounts.

(25)

In our opinion and to the best of our information and according to the explanation given to us, the said financial statements read together with the Accounting policies and Notes on Accounts and subject to the significant matters stated above and other matters mentioned in Annexure-I to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.

- (a) in so far as it relates to Balance Sheet, of the state of affairs of the Betwa River Board as at 31st March 2010 and
- (b) in so far as it relates to Income and Expenditure Accounts of the deficit for the year ended on that date.

For and on behalf of C&AG of India

Sd/-

Accountant General

Place: Bhopal

Dated: 14th July, 2011

Annexure I to Audit Report

- 1. Adequacy of Internal Audit System**
The internal audit system was not in existence
- 2. Adequacy of Internal Control System**
The internal control system was not adequate and was not commensurate with the size and nature of the autonomous body. All the establishment/work related bills were paid by PAO, Jhansi. However, booking of expenditure to the proper head of Accounts was not correctly done in several transactions.
- 3. System of physical verification of fixed assets**
Assets were found to be verified periodically, No serious deficiencies were noticed.
- 4. System of physical verification of inventory**
Physical verification of inventory had been carried out by the Management at reasonable intervals
- 5. Regularity in payment of statutory dues.**
The autonomous body was regular in depositing other statutory dues.

**Sd/-
Audit Officer/Report**

(27)

Audit compliance/Status Report

There is no serious observation raised in Audit Report during the year 2009-10 and Audit inspection report is, still awaited from MPAG, Bhopal. When Inspection Report will be issued by the MPAG, Bhopal the reply of IR will be submitted for compliance. As per the Annexure I all the adequacy raised by MPAG, Bhopal will be removed in future.

**Sd/-
Financial Adviser
Betwa River Board, Jhansi**

(28)
No.1/2/2008/CBD/198
Central Water Commission
Control Board Dte.

405(S) Sewa Bhawan
R.K. Puram, New Delhi- 110066
Dated 21-9-2010

To,

The Secretary
Betwa River Board,
Nandanpura
Jhansi (U.P)

Sub: Approval of Annual Account of Betwa River Board for the year 2009-10- reg.

Ref: Secy, BRB letter No. A-13/T/BRB/Annual Report/338 dated 31.8.2010.

Sir,

The Annual Account of BRB submitted vide your letter cited above for the year 2009-10, for the net expenditure amounting to Rs.16.41 crore has been approved by the Chairman, Executive Committee under his emergency power. The above Annual Account may be ratified in the next Executive Committee meeting by keeping it as a agenda item.

Yours faithfully,
Sd/-
(B. Thakur)
Director/CBD

CHAPTER – V

Other Activities

CHAPTER - V

5.1 OTHER ACTIVITIES (2009-10)

Besides the various Project activities, following items were also taken up :-

1. “**Anti-Terrorism Day**” was observed on 20-05-2009 to wean away people particularly the Youth from terrorism and the cult of violence by highlighting. The suffering of common people and showing how it is harmful to the Nation’s interests. **Anti Terrorism Pledge** was also taken by all the staff.
2. “**Communal Harmony fortnight**” was observed from 20-08-2009 to 03-09-2009. Various programmes like slogan, painting, sport, essay writing were organized. **Sadbhavana** pledge was also taken by the staff on “ **Sadbhavana Diwas** “.
3. “**Hindi fortnight**” was observed from 14-09-2009 to 29-09-2009 and various programmes and activities like Typing Competition, Hindi Dictation, a workshop on Hindi, Essay, General Knowledge test and Extempore Lecture etc. were organized and qualified personnels were honoured by way of providing certificates and prizes.
4. “**Quami Ekta Week**” from 19-11-2009 to 25-11-2009 was observed to foster the spirit of patriotism & National Integration with full participation of all staff and **National Integration Pledge** was taken to maintain the National Integrity.
5. Different cultural programmes were organized on the occasion of Durga Pooja and Ganesh Utsav at Jhansi.

CHAPTER – VI
Vigilance Activities

CHAPTER- VI

VIGILANCE ACTIVITIES

6.1 VIGILANCE ACTIVITIES

In the matter of Inquiry Report on the audit para 4.3,4 .4 and .5.1 of CTE, CVC on the works of Right Training Wall of Rajghat Dam Project, the CVC has recommended disciplinary action against State Government officers. The recommendations of CVC have been sent to the States for taking action. The Executive Committee in its 77th meeting held on 22-07-2006 requested the States to sent the action taken port to the Board for providing to CVC. The action taken Repot on the matter from the Sate Governments is still awaited.

As per the direction of Ministry of Water Resources & Central Vigilance Commission, New Delhi, the Vigilance Aware week from 03-11-2009 to 07-11-2009 was observed in Betwa River Board.

All the officers and staff working in this organization took pledge of Vigilance Awareness on 03-11-2009.

The message of Central Vigilance Commission, New Delhi were read on the Occasion on 03-11-2009 .

Office Memorandum/Circulars received from the Vigilance Department of Ministry Water Resources, New Delhi from time to time were circulated to all the offices in Betwa River Board.1

CHAPTER- VI

PERSONS WITH DISABILITIES

7.2 Persons with Disabilities

As per instruction received by Govt. of India, Ministry of Water Resources, Shram Shakti Bhawan, New Delhi vide letters F.No.2/1/2006-Coord(Pt. I) dated 23rd April, 2009 in the matter for Persons with Disabilities for inclusion of the status of separate chapter in the Annual Report.

Betwa River Board is an autonomous body, there is no regular post, and no appointments/ recruitments has been done by Betwa River Board. All the posts are filled up by officers/officials who are came on deputation from participating States of Uttar Pradesh, Madhya Pradesh and Central Govt. Instead of this workcharged and Temporary Status employees are also working . Therefore , it is requested that in the matter for Persons with Disabilities for the year 2009-10 may be treated as Nil from this organization.

Annexures

Agreement on some Irrigation Projects in Bundelkhand between U.P. and M.P. Govts. on dated 22.07.1972.

1. Rajghat Project.

This Project consists of a dam on Betwa River. It is agreed that this project will be developed in the interests of both Uttar Pradesh and Madhya Pradesh. The Project may be built for a live storage of about 62 T.M.C. and dead storage of about 16 T.M.C. to provide for possible silting. Out of this live storage of 62 T.M.C. , 9 T.M.C. storage will be reserved for committed downstream uses in Uttar Pradesh and Madhya Pradesh. The balance will be divided between Uttar Pradesh and Madhya Pradesh equally and costs shared in proportion to benefits.

Madhya Pradesh can use 53 T.M.C. for new upstream projects. In years when the annual flow at Rajghat exceeds 119 T.M.C., Madhya Pradesh will be entitled to use also such excesses. From Rajghat reservoir, Uttar Pradesh can use upto 26.5 T.M.C. including half of reservoir losses. In addition to this, Uttar Pradesh will also be entitled to use 9 T.M.C. for committed uses downstream in its area and also for use in Bhandar Canal of Madhya Pradesh.

Any temporary use of water by Uttar Pradesh in excess of the above which may flow down due to non-completion of projects by Madhya Pradesh to utilize their share as allotted to them in the preceding paragraph may be made with the approval of a Joint Board consisting of Chairman, Central Water & Power Commission and Chief Engineers of Irrigation of Uttar Pradesh and Madhya Pradesh. Such use, however, will not create any right of permanent use, to that excess water by Uttar Pradesh.

2. Rangawan Dam.

Madhya Pradesh can utilize for Kharif crops upto 31st October upto 2 T.M.C. and the balance storage as available on 1st November will be divided between Uttar Pradesh and Madhya Pradesh in the ratio of 36:15. As Gangau Dam is silted up and is not supplying adequate water for irrigation in Uttar Pradesh, it is agreed that the existing structure may be

modified to provide additional storage. This will be equally shared between Uttar Pradesh and Madhya Pradesh after meeting the shortages at Rangawan.

3. Greater Gangau Dam

This is a good project and should be undertaken in Fifth Plan . Madhya Pradesh has agreed to complete the investigations upto June, 1973. Central Water & Power Commission will assist in completing the investigations. Feasibility report may be prepared as early as possible.

4. Urmil Dam

40 percent of water available at the dam site proposed by Uttar Pradesh at 75 percent dependability is allocated to Uttar Pradesh and 60 percent to Madhya Pradesh.

5. Lalitpur Dam

Water will be made available by Uttar Pradesh for Irrigation in Tikamgarh District (Madhya Pradesh) for 1800 acres CCA from Lalitpur Dam, taking the duty same as prevailing on this project in Uttar Pradesh, Madhya Pradesh will construct extension of canal system in their areas at their cost.

Sd/-

(P.C.Sethi)
Chief Minister of Madhya Pradesh

Sd/-

(Kamalapati Tripathi)
Chief Minister of Uttar Pradesh.
1-8-1972

ANNEXURE-II

Agreement dated 9th December, 1973 between the Govts. of Uttar Pradesh and Madhya Pradesh about Rajghat Project.

1. The agreement regarding Rajghat reached in August 1972, was discussed today. It was confirmed that Madhya Pradesh will use its full share of 26.5 T.M.C. from Rajghat. The height of the Rajghat Dam should be decided by the Central Water & Power Commission on the basis of the uses committed as well as planned in the August 1972 agreement (9 plus 26.5 plus 26.5 = 62 T.M.C.) The project should be modified and got cleared for the height so determined.
2. Uttar Pradesh and Madhya Pradesh agree to the setting up of a tripartite Control Board for the speedy, smooth and efficient execution of the various inter-state projects of U.P. and M.P. The Control Board will be under the Chairmanship of the Union Minister of Irrigation & Power, with the Chief Ministers and the concerned Ministers of the two States as its Members. The Control Board will set up such committees and groups as are necessary for the execution of the different Inter State Projects of U.P. and M.P.
3. It was agreed that, in the Rajghat Project, each State would build the Canal system in its territory. The dam and appurtenant works will be built by a project authority to be appointed by the Control Board. All the personnel needed by the project authority will be drawn from both the States. Funds for the execution of the Dam will be provided by both the States in accordance with their respective shares. A Standing Committee of the Board will be constituted for taking such management decisions as may be delegated by the Board. Pending constitution of the Control Board and the Standing Committee, steps should be taken immediately for commencing works on the project.

Sd/

(H.N.Bahuguna)
Chief Minister of Uttar Pradesh
9th December, 1973

Sd/

(P.C.Sethi)
Chief Minister of Madhya Pradesh
9th December, 1973

ANNEXURE-III.

COMPOSITION OF BETWA RIVER BOARD, EXECUTIVE COMMITTEES AND OTHER SUB-COMMITTEES OF BETWA RIVER BOARD

I. SET-UP OF BETWA RIVER BOARD

CHAIRMAN

Hon'ble Union Minister for Water Resources : Prof. Saif-Ud-Din Soz

: Dr. Manmohan Singh

: Smt. Meira Kumar

: Shri Pawan Kumar Bansal

MEMBERS

Hon'ble Union Minister of Power : Shri Sushil Kumar Shinde

Hon'ble Union Minister of State for Water Resources : Shri Jai Prakash Narayan Yadav

: Shri Vincent H. Pala

Madhya Pradesh

Uttar Pradesh

Hon'ble Chief Minister : Shri Shivraj Singh Chauhan Sushri Mayawati

Hon'ble Minister of Water Resources/Irrigation : Shri Jayant Malaiya Shri Nasimuddin Siddiqui

Hon'ble Minister of Finance : Shri Raghav Ji Shri Lal Ji Verma

Hon'ble Minister of Power : Shri Rajendra Shukla Shri Ramveer Upadhaya

II. EXECUTIVE COMMITTEE.

Chairman

Chairman, Central Water Commission, Sewa Bhawan,
R.K.Puram, New Delhi. Chairman

Members

1. Member (WP&P) Central Water Commission,
Sewa Bhawan, R.K.Puram, New Delhi. Member
2. Chairman, Central Electricity Authority,
Sewa Bhawan, R.K.Puram, New Delhi. Member
3. Joint Secretary, Deptt. of Power, Ministry of Energy,
Govt. of India, Shram Shakti Bhawan, New Delhi. Member
4. Financial Adviser, Ministry of Water Resources,
Shram Shakti Bhawan, New Delhi. Member
5. Commissioner (Projects) Ministry of Water Resources,
Shram Shakti Bhawan, New Delhi. Member
6. Principal Secretary, Water Resources Department,
Govt. of Madhya Pradesh, Vallabh Bhawan, Bhopal. Member
7. Principal Secretary, Irrigation Department,
Govt. of Uttar Pradesh, Vidhan Bhawan, Lucknow. Member
8. Principal Secretary, Finance Department,
Govt. of Madhya Pradesh, Vallabh Bhawan, Bhopal. Member
9. Principal Secretary, Finance Department,
Govt. of Uttar Pradesh, Vidhan Bhawan, Lucknow. Member
10. Principal Secretary, Fisheries Department,*
Govt. of Madhya Pradesh, Vallabh Bhawan, Bhopal. Member
11. Principal Secretary, Fisheries Department,*
Govt. of Uttar Pradesh, Sachivalaya, Lucknow. Member
12. Engineer-in-Chief, Water Resources Department Member

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- Govt. of Madhya Pradesh, Narmada Bhawan,
Tulsi Nagar, Bhopal.
- | | | |
|-----|---|-------------------|
| 13. | Engineer-in-Chief, Irrigation Department,
Govt. of Uttar Pradesh, Cantt.Road, Lucknow. | Member |
| 14. | Chairman, Madhya Pradesh State Electricity Board,
Shakti Bhawan, Jabalpur. | Member |
| 15. | Chairman, Uttar Pradesh Power Corporation Ltd.,
Planning Wing, Lucknow. | Member |
| 16. | Chief Engineer, Rajghat Dam Project, Jhansi | Member |
| 17. | Secretary, Betwa River Board, Jhansi | Member Secretary. |
| 18. | Financial Adviser, Betwa River Board, Jhansi. | Member |

** included in the reconstituted Executive Committee of BRB vide Govt. of India Gazette Notification*

III CONTRACT WORKS SUB-COMMITTEE FOR THE WORK OF PROJECT (FOR CASES BEYHOND CHIEF ENGINEER'S POWER)

- | | | |
|-----|---|-------------------|
| 1. | Member (WP&P), C.W.C. New Delhi | Chairman |
| 2. | Member (Hydro) C.E.A. New Delhi
(or his representative not below the rank of C.E. of C.E.A) | Member |
| 3. | Engineer-in-Chief, Water Resources Deptt., M.P.
(or his representative not below the rank of Chief Engineer) | Member |
| 4. | Engineer-in-Chief, Irrigation Deptt., Lucknow, U.P.
(or his representative not below the rank of Chief Engineer) | Member |
| 5. | Chief Engineer (CMO), CWC, New Delhi. | Member |
| 6. | Member (Generation), Madhya Pradesh State
Electricity Board, Jabalpur. | Member |
| 7. | Member (Generation), Uttar Pradesh Power
Corporation Ltd., Lucknow. | Member |
| 8. | Chief Engineer, Rajghat Dam Project, Jhansi | Member |
| 9. | Financial Adviser, Betwa River Board, Jhansi | Member |
| 10. | Secretary, Betwa River Board, Jhansi. | Member-Secretary. |

**IV CLAIMS SUB-COMMITTEE
(FOR CLAIMS OF M/S HSCL)**

- | | | |
|----|---|-------------------|
| 1. | Member (WP&P), C.W.C., New Delhi | Chairman |
| 2. | Engineer-in-Chief, Irrigation Deptt., U.P.
(or his representative not below the rank of Chief Engineer) | Member |
| 3. | Engineer-in-Chief, Water Resources Deptt., M.P.
(or his representative not below the rank of Chief Engineer) | Member |
| 4. | Financial Adviser, Ministry of Water Resources, New Delhi. | Member |
| 5. | Chief Engineer (CMO), C.W.C., New Delhi | Member |
| 6. | Secretary, Betwa River Board, Jhansi | Member-Secretary. |

**V CLAIMS SUB-COMMITTEE
(FOR CLAIMS OF M/S NPCC LTD.)**

- | | | |
|----|---|-------------------|
| 1. | Member (WP&P), C.W.C., New Delhi | Chairman |
| 2. | Engineer-in-Chief, Irrigation Deptt. U.P.
(or his representative not below the rank of Chief Engineer) | Member |
| 3. | Engineer-in-Chief, Water Resources Deptt., M.P.
(or his representative not below the rank of Chief Engineer) | Member |
| 4. | Financial Adviser, Ministry of Water Resources, New Delhi. | Member |
| 5. | Secretary, Betwa River Board, Jhansi | Member-Secretary. |

**VI SUB COMMITTEE FOR LAND ACQUISITION &
REHABILITATION.**

- | | | |
|-----|---|-------------------------|
| 1. | Commissioner, Gwalior | Chairman
By rotation |
| 2. | Commissioner, Jhansi | |
| 3. | Chief Engineer, Rajghat Dam Project, Jhansi | Member |
| 4. | Secretary, Betwa River Board, Jhansi | Member Secretary. |
| 5. | Financial Adviser, Betwa River Board, Jhansi | Member |
| 6. | District Magistrate, Lalitpur (U.P) | Member |
| 7. | Collector, Guna (M.P) | Member |
| 8. | Superintending Engineer, Rajghat Dam Circle, Jhansi | Member |
| 9. | Land Acquisition Officer, Betwa River Board, Rajghat. | Member |
| 10. | Rehabilitation Officer, Betwa River Board, Rajghat. | Member |

VII SUB COMMITTEE FOR SELECTION OF STAFF.**1. For Group 'A'**

Commissioner (Projects), M.O.W.R., New Delhi	Chairman
Chief Engineer, Rajghat Dam Project, Jhansi	Member
Financial Adviser, Betwa River Board, Jhansi	Member
Secretary, Betwa River Board, Jhansi	Member Secretary.

2. For Group 'B'

Chief Engineer, Rajghat Dam Project, Jhansi	Chairman
Financial Adviser, Betwa River Board, Jhansi	Member
Secretary, Betwa River Board, Jhansi	Member Secretary.

3. For Group 'C'

Chief Engineer, Rajghat Dam Project, Jhansi	Chairman
Financial Adviser, Betwa River Board, Jhansi	Member
Secretary, Betwa River Board, Jhansi	Member Secretary.

VIII ENVIRONMENTAL MONITORING SUB-COMMITTEE

1. Chief Engineer, Rajghat Dam Project, Jhansi	Chairman
2. Chief Conservator of Forest, Ministry of Environment & Forest, Central Region, Lucknow.	Member
3. Superintending Engineer, Upper Ganga Circle, Central Water Commission, New Delhi.	Member
4. Conservator of Forest, Forest Deptt., Jhansi (U.P)	Member
5. Conservator of Forest, Forest Deptt., Shivpuri (M.P)	Member
6. Additional District Magistrate, Revenue, Guna (M.P)	Member
7. Additional District Magistrate, Revenue, Jhansi (U.P)	Member
8. Joint Director, Tribal & Social Welfare, Gwalior (M.P)	Member
9. Deputy Director, Social Welfare, Jhansi (U.P)	Member
10. Deputy Director, Agriculture, Guna (M.P)	Member
11. Joint Director, Agriculture (Extension), Jhansi (U.P)	Member
12. Senior Geo-Hydrologist, Ground Water Survey Dn., Gwalior (M.P)	Member

- | | | |
|-----|--|--------|
| 13. | Executive Engineer, Ground Water, Jhansi (U.P) | Member |
| 14. | Joint Director, Health Deptt. Guna (M.P) | Member |
| 15. | Joint Director, Health Deptt., Jhansi (U.P) | Member |
| 16. | Public Representative from Uttar Pradesh | Member |
| 17. | Public Representative from Madhya Pradesh | Member |

IX WATER MANAGEMENT COMMITTEE FOR ENSURING PROPER DISTRIBUTION OF WATER OF RAJGHAT.

- | | | |
|----|---|-------------------|
| 1. | Chief Engineer, Rajghat Dam Project, Jhansi | Chairman |
| 2. | Chief Engineer, Irrigation Department(Bundelkhand),
Jhansi (U.P) | Member |
| 3. | Chief Engineer, Rajghat Canal Project,
Water Resources Department, Datia (M.P) | Member |
| 4. | Secretary, Betwa River Board, Jhansi (Co-ordinator) | Member Secretary. |

X AUDIT PARAS SUB COMMITTEE

(A)

- | | | |
|----|--|------------------|
| 1. | Financial Adviser, Ministry of Water Resources,
New Delhi | Chairman |
| 2. | Chief Engineer, Rajghat Dam Project, Jhansi | Member |
| 3. | Financial Adviser, Betwa River Board, Jhansi | Member Secretary |
| 4. | Secretary, Betwa River Board, Jhansi | Member. |

(B) Audit Para Sub Committee on SFI

- | | | |
|----|--|-------------------|
| 1. | Chief Engineer (CMO), CWC, New Delhi | Chairman |
| 2. | Chief Engineer, Rajghat Dam Project, Jhansi | Member |
| 3. | Chief Engineer, Rajghat Canal Project, Datia, M.P. | Member |
| 4. | Chief Engineer, (Bundelkhand), Irrigation Deptt., Jhansi | Member |
| 5. | Financial Adviser, Betwa River Board, Jhansi | Member Secretary. |

XI CONTRACT WORKS SUB COMMITTEE.**(A) For cases within Chief Engineer's power**

- | | | |
|----|--|------------------|
| 1. | Chief Engineer, Rajghat Dam Project, Jhansi | Chairman |
| 2. | Secretary, Betwa River Board, Jhansi | Member Secretary |
| 3. | Financial Adviser, Betwa River Board, Jhansi | Member |
| 4. | Superintending Engineer, Betwa River Board, Jhansi (Concerned) | Member |

(B) Cases within S.E's Power

- | | | |
|----|---|------------------|
| 1. | Superintending Engineer, Betwa River Board, Jhansi (Concerned) | Chairman |
| 2. | Executive Engineer, Betwa River Board, Jhansi (Concerned) | Member Secretary |
| 3. | Superintending Engineer, Betwa River Board, Jhansi of other state | Member |
| 4. | Sr. Accounts Officer, Betwa River Board, Jhansi | Member |

(C) Cases within E.E's Power

- | | | |
|----|--|------------------|
| 1. | Executive Engineer, Betwa River Board, Jhansi (Concerned) | Chairman |
| 2. | Executive Engineer, Betwa River Board, Jhansi of other state | Member Secretary |
| 3. | Nominee of Financial Adviser, Betwa River Board, Jhansi | Member |

XII SUB-COMMITTEE FOR MONITORING THE PROGRESS OF WORKS OF RAJGHAT DAM AND POWER HOUSE PROJECT.

- | | | |
|----|--|-------------------|
| 1. | Chief Engineer (CMO), CWC, New Delhi | Chairman |
| 2. | Chief Engineer, Rajghat Dam Project, Jhansi | Member & Convener |
| 3. | District Magistrate, Lalitpur or his representative | Member |
| 4. | Chief Engineer (Hydel Project), M.P.S.E.B. Jabalpur/Superintending Engineer, Rajghat Power House | Member |
| 5. | Chief Engineer (Hydel), C.E.A. or his representative | Member |
| 6. | Superintending Engineer, Rajghat Dam & Power House Circle, Rajghat. | Member |
| 7. | Financial Adviser, Betwa River Board, Jhansi | Invitees |
| 8. | Secretary, Betwa River Board, Jhansi | Invitees |

XIII SUB-COMMITTEE FOR DISPOSAL OF SURPLUS VEHICLES & MACHINERY OF THE BETWA RIVER BOARD, JHANSI.

1. Financial Adviser, Betwa River Board, Jhansi Member
2. Superintending Engineer, Tubewells, U.P.Irrigation Deptt. Jhansi (as a nominee of U.P) Member
3. Director (CMU), Water Resources Deptt., M.P. (as a nominee of M.P) Member
4. Superintending Engineer, Rajghat Dam Circle,Rajghat(BRB) Member Secretary.

XIV SUB-COMMITTEE FOR DEALING WITH THE SERVICE MATTERS OF ALL EMPLOYEES OF THE BOARD AND SERVICE RULES FOR FILLING UP THE POSTS FOR O&M ACTIVITIES.

1. Chief Engineer (Rajghat Dam Project), BRB, Jhansi Chairman
2. Chief Engineer (Betwa), U.P.Irrigation Deptt., Jhansi Member
3. A representative of CE rank from M.P. W.R.D. Member
4. Secretary, Betwa River Board, Jhansi Member Secretary

XV SUB-COMMITTEE FOR PROPER DEVELOPMENT AND MANAGEMENT OF FISHERIES IN RAJGHAT DAM RESERVOIR (RANI LAXMI BAI SAGAR)

1. Chief Engineer, Rajghat Dam Project, Jhansi Chairman
2. Representatives of Fisheries Deptt. of U.P. & M.P. Members
3. Representative of U.P. Irrigation Department & Water Resources Department, M.P. (not below the rank of SE) Members
4. Representative of Finance Wing of BRB (not below the rank of PAO) Member
5. Executive Engineer, Rajghat Dam Project Member Secretary

SALIENT FEATURESRAJGHAT DAM AND HYDRO ELECTRIC PROJECT.**1 LOCATION**

(i)	Tehsil	:	Chanderi (M.P) & Lalitpur (U.P)
(ii)	District	:	Guna (M.P) & Lalitpur (U.P)
(iii)	Latitude	:	24° 45' 45"
(iv)	Longitude	:	78° 45' 00"

2.	SOSURCE OF SUPPLY	:	BETWA RIVER
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3. CATCHMENT AREA

(i)	Gross Catchment area	:	16317 Sq.Km.
(ii)	Catchment area in M.P.	:	15644 Sq.Km.
(iii)	Catchment area in U.P.	:	673 Sq.Km.

4. RUN OFF

(i)	Average rainfall (Annual)	:	1000 mm
(ii)	Total run off	:	3370 M cum.
(iii)	Run off factor	:	207730 cum/Sq.Km.
(iv)	Run off proposed to be utilized by M.P. & U.P. at Rajghat.	:	1753 M cum.

5. DESIGN FLOOD

(i)	Maximum Probable Flood	:	45,555 cumec
(ii)	Standard Projected Flood	:	39,014 cumec
(iii)	Routed discharge	:	33,893 cumec
(iv)	Diversion during construction	:	226 cumec

6. DAM

(i)	R.L. of top of Earth Dam	:	377.70 m.
(ii)	Total length of Earth Dam	:	10.79 Km.
(iii)	R.L. of top of Masonry Dam	:	377.00 m.
(iv)	Total length of Masonry Dam	:	562.50 m
(v)	Maximum height of Earth Dam	:	29.5 m
(vi)	Maximum height of Masonry Dam	:	43.5 m
(vii)	Total length of spillway crest with piers	:	342 m
(viii)	No. & Size of Gate	:	18 Gates of 15 m x 14.56 m.
(ix)	Deepest Foundation Level	:	333.20 m
(x)	River Bed Level	:	337.80 m
(xi)	Dead Storage Level	:	356.62 m
(xii)	Spillway Crest Elevation	:	357.00 m
(xiii)	Full Reservoir Level	:	371.00 m
(xiv)	Max. Water Level	:	373.07 m

7. POWER HOUSE

(i)	Capacity	:	45 MW (3x15 MW)
(ii)	Location	:	At Left Flank of dam toe

Head Race Water Level

(i)	Maximum	:	373.07 m
(ii)	Normal	:	371.00 m
(iii)	Minimum	:	361.50 m

Tail Race Water Level

(i)	No machine running	;	339.20 m
(ii)	1 machine running	:	339.79 m
(iii)	2 machine running	:	340.06 m
(iv)	All the 3 machine running	:	340.66 m
(v)	Maximum tail race water level	:	355.70 m
(vi)	Design Head	:	28.00 m
(vii)	Maximum Head	:	31.80 m
(viii)	Minimum Head	:	20.30 m

(70)

(ix)	Maximum flow in each machine	:	63.2 cumecs
(x)	Spiral casing C/L Elevation	:	334.70 m
(xi)	D.T.Bottom level	:	326.36 m
(xii)	Spiral Inlet dia	:	4250 mm

Turbine : Kaplan type with six Blades
Runner dia. 2900 mm tip to tip

(i)	Rated output	:	15700 KW
(ii)	Efficiency (Maximum)	:	93%
(iii)	Normal Speed	:	250 rpm

Runaway speed

(i)	On cam (for 15 min.)	:	495 rpm
(ii)	Off cam	:	665 rpm

Generator : Semi Umbrella with pivoted
Segmental thrust bearing below
Generator rotor

(i)	Normal Generation voltage	:	11000V (+5%)50 Hz(+3%)
(ii)	Rated output (15000 KW)	:	18750 kva/0.8 LAG pf
(iii)	Overall efficiency maximum	:	96.1%
(iv)	Stator current	:	984 Amp.
(v)	Rotor current	:	865 Amp. at 112.5V

Resistance

(i)	Stator/phase at 75 deg. C	:	0.412 ohms
(ii)	Field winding at 75 deg. C	:	0.1084 ohms
(iii)	Insulation type	:	class "B"
(iv)	Yearly Energy Production from Rajghat Dam	:	950 lack unit
(v)	Additional annual energy Production from Matatila Dam	:	450 lack unit

1- RESERVOIR CAPACITY

(i)	Full Reservoir Capacity	:	2172 M Cum
(ii)	Dead Storage Capacity	:	227 M Cum
(iii)	Live Storage Capacity	:	1945 M Cum
(iv)	Provision for silting in live storage	:	190 M Cum
(v)	Share of M.P.	:	750 M Cum
(vi)	Share of U.P.	:	750 M Cum
(vii)	For committed use at D/S	:	255 M Cum
(viii)	Total usable capacity	:	1755 M Cum

9. HEAD REGULATOR DISCHARGES

(i)	Upper Rajghat Canal Head Regulator at Km. 2.422 (Right Bank)	:	9.90 Cumec
(ii)	Lower Rajghat Canal Head Regulator at Km. 1.235 (Right Bank)	:	25.48 Cumec
(iii)	Rajghat Canal Head Regulator at Km. 2.30 (Left Bank)	:	28.31 Cumec

10. IRRIGATION**Uttar Pradesh**

(a)	Upper Rajghat Canal	:	7809 Ha.
(b)	Jakhlone Pump Canal	:	23903 Ha.
(c)	Lower Rajghat Canal	:	28388 Ha.
(d)	Extension & Intensification on Betwa & Gursarai Canal	:	62644 Ha.
(e)	Badagaon Pump Canal	:	3820 Ha.
(f)	Jhansi Canal	:	<u>12097 Ha.</u>
			<u>1,38,661 Ha.</u>

Madhya Pradesh

(a)	Rajghat L.B.C.	:	24291 Ha.
(b)	Datia Carrier Canal	:	3383 Ha.
(c)	Datia Canal System	:	57683 Ha.
(d)	Remodelling of Bhandar Canal	:	<u>36093 Ha.</u>
			<u>1,21,450 Ha.</u>

(72)

11. SUBMERGENCE

	M.P.	U.P.	TOTAL
Area of Submergence	12248 Ha.	11962 Ha.	24210 Ha.

12. VILLAGES AFFECTED

(i) No.of villages affected	39	49	88
(ii) No.of villages under full Submergence	22	17	39
(iii) No.of villages under partial Submergence	9	21	30
(iv) Total villages under submergence	31	38	69

13. ABADI AFFECTED

(i) No.of villages fully affected	13	17	30
(ii) Partially affectged	9	6	15
(iii) Total	22	23	45

14. SANCTIONED COST

(i) Dam (Based on 1979 rates)	:	123.22 Crore
(ii) Power House (Based on 1984 rates)	:	37.47 Crore

21- REVISED COST

Dam Project

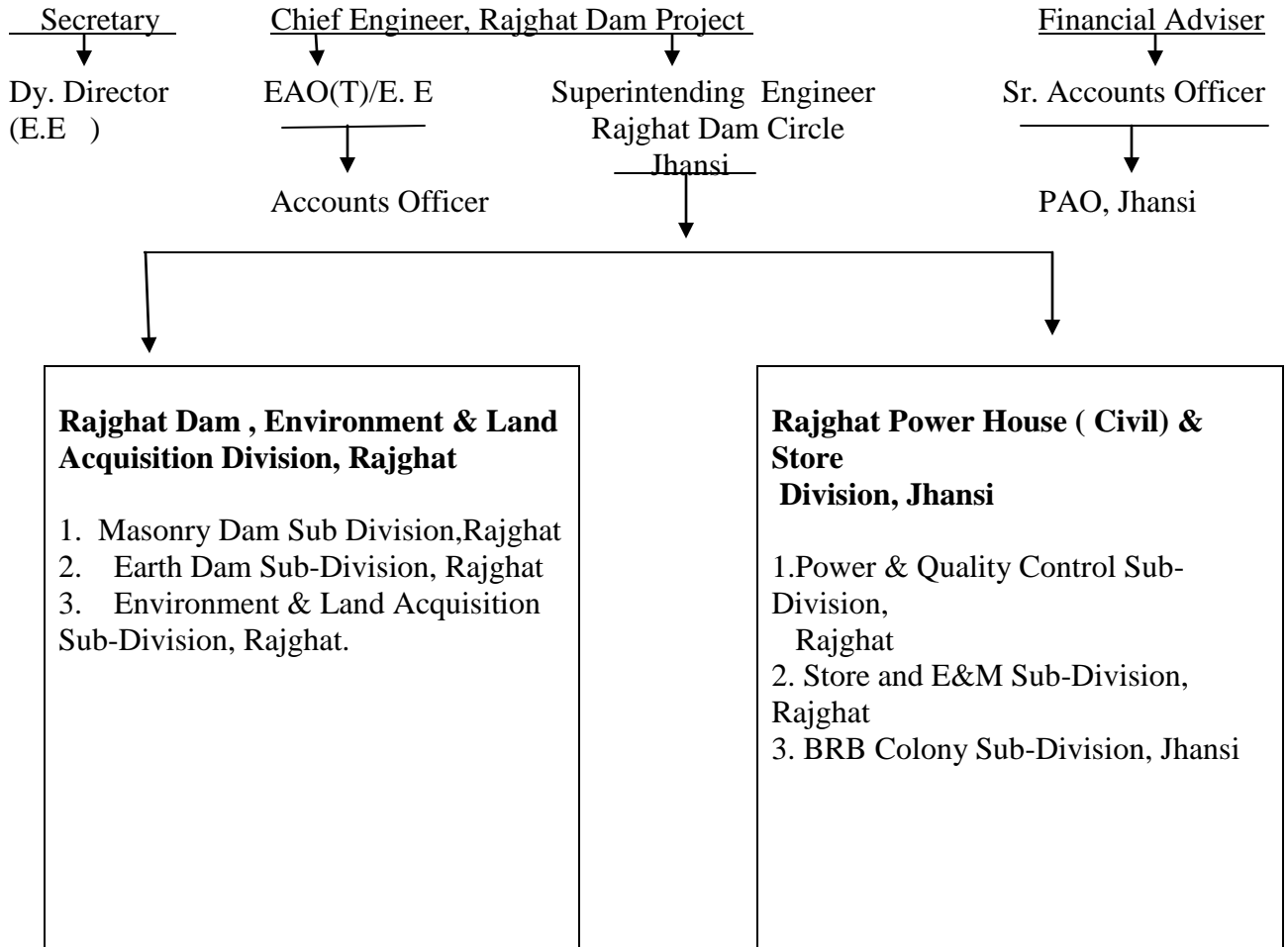
(i) Estimated Cost (January 2000)	:	Rs. 300.60 Crore
(ii) Cost per Hectare of Benefitted area	:	Rs. 12023.00
(iii) Cost per Th. Cum of gross storage	:	Rs. 1785.00

Power House

(i) Estimated Cost (March-1997)	:	Rs. 131.26 Crore
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ORGANISATION CHART OF BETWA RIVER BOARD

(Administrative Offices and Field Units from 1-4-2009 to 31-3-2010)



**STATEMENT SHOWING REGULAR STAFF POSITION (DEPUTATIONISTS)
OF BETWA RIVER BOARD FROM 01.04.2009 TO 31.03.2010**

Sl. No.	Category of Post	Pay Band	Grade Pay	Sanctioned strength during the year	Working strength as on 31.03.2010	Vacancy as on 31.03.2010
1	2	3		4	5	6
1.	Chief Engineer	37400-67000	10,000/-	1	-	1
2.	Secretary	37400-67000	8,900/-	1	-	1
3.	Financial Adviser	37400-67000	8,700/-	1	-	1
4.	Superintending Engineer	37400-67000	8,700/-	1	-	-
5.	Executive Engineer/Dy. Director.	15600-39100	7,600/-	4	4	-
6.	Sr.Accounts Officer	15600-39100	6,600/-	1	-	1
7.	Medical Officer	15600-39100	6,600/-	1	-	1
8.	Accounts Officer	9300-34800	4,600/-	2	1	1
9.	Assistant Engineer	9300-34800	5,400/-	8	4	4
10.	Rehabilitation Officer	9300-34800	4,200/-	1	-	1
11.	Superintendent	9300-34800	4,200/-	2	-	2
12.	Section Officer	9300-34800	4,200/-	9	-	9
13.	Jr.Superintendent	9300-34800	4,200/-	1	1	-
14.	P.A (Steno)	9300-34800	4,200/-	2	-	2
15.	Assistant	9300-34800	4,200/-	4	-	4
16.	Jr.Engineer	9300-34800	2,800	18	-	18
17.	Head Clerk	5200-20200	2,800	4	1	3
18.	Sr. Draftsman Gr.II/ Draftsman	5200-20200	2,800	3	1 -	2
19.	Scientific Assistant	5200-20200	2,400	2	-	2
20.	Horticulture Inspector	5200-20200	2,800	1	-	1

21.	Head Master	5200-20200	2,800	1	-	1
22.	Stenographer/Steno- Typist	5200-20200 5200-20200	2,800 2,400	9	-	9
23.	Sr. Auditor/Auditor	9300-34800	2,800	10	-	10
24.	Compounder	5200-20200	2,400	2	-	2
25.	U.D.C.	5200-20000	2,400	19	4	15
26.	Assistant Store Keeper	5200-20000	2,400	2	-	2
27.	Teacher	5200-20000	2,400/-	10	1	10
28.	L.D.C.	5200-20000	1,900/-	22	-	22
29.	Nurse/Midwife	5200-20000	1,900/-	3	-	3
30.	Driver	5200-20000	1,900/-	15	-	15
31.	Gestetner/ Photostate Operator.	5200-20000	1,900/-	1	-	1
32.	Amin/ Patwari	5200-20000	1,800/-	6	-	6
33.	Lab.Attendant	5200-20000	1,900/-	1	-	1
34.	Head Gardener	5200-20000	1,800/-	1	-	1
35.	Wardboy/Sevika	4440-7440	1,800/-	4	-	4
36.	Peon	4440-7440	1,300/-	27	-	27
37.	Gateman	4440-7440	1,300/-	5	-	5
38.	Mali	4440-7440	1,300/-	4	-	4
39.	Sweeper	4440-7440	1,300/-	4	-	4
40.	Dak Runner	4440-7440	1,300/-	2	-	2
41.	Chowkidar	4440-7440	1,300/-	9	-	9
		Total:		224	17	207

ANNEXURE-VII

**DETAILS REGARDING ACQUISITION OF LAND & PROPERTY AND
REHABILITATION OF OUSTEES OF RAJGHAT DAM PROJECT ENDING
31-03-2010**

S.No.	Item	U.P.	M.P.	Total
1.	No. of villages affected by submergence	38	31	69
2.	Total No. of villages involved	49	39	88
3.	DETAILS OF LAND :			
(i)	(a) Area in Hectares to be acquired.	13803	12749	26552
(b)	Submergence area in Hectares	12249	11961	24210
(ii)	Possession taken upto 03/2010			
(a)	No. of villages	48	39	87
(b)	Area in Hectares	11987	11392	23379
4.	DETAILS OF PROPERTY:			
(i)	No. of villages involved	34	31	65
(ii)	No. of villages whose property has been acquired upto 03/2010.	33	31	64
(iii)	Balance number of villages in which acquisition is in progress.	01	-	01
5.	RESETTLEMENT:			
(i)	No. of villages in which resettlement grant is to be paid	23	22	45
(ii)	No. of villages in which resettlement grant has been paid upto 03/2010	19	22	41
(iii)	No. of families affected by the project	4188	5662	9850
(iv)	No. of families rehabilitated upto 03/2010	3848	5582	9430
6.	FINANCIAL:			
(i)	Total advance issued to District Magistrate upto 3/2009 (Rs. in lac)	2692.09	1899.59	4591.68
(ii)	Amount disbursed upto 03/2010 as per available information (Rs. in lac)	1285.85	1789.10	3074.95
(i)	Compensation paid by B.R.B. up to 03/2010 for private negotiation	2207.13	-	2207.13
.	Amount returned to BRB by D.M Lalitpur	1312.81		1312.81

NOTE: Govt. of M.P. has directly paid a sum of Rs. 130.00 lacs to Collector, Guna which has not been included in above figures.

**NORMS FOR REHABILITATION AND CIVIC AMENITIES
FOR OUSTEES OF RAJGHAT DAM PROJECT**

The Chief Minister, Madhya Pradesh, informed that M.P. Government is enacting a law similar to the “Resettlement of Project Displaced Persons Act” of Maharashtra to enable rehabilitation of displaced persons of Project in the command area of canals. The State has no objection to the norms for rehabilitation and civic amenities as proposed by the Land Acquisition and Rehabilitation Sub-Committee. The U.P. Government indicated that they do not intend to enact a law to resettle project displaced persons as it would have serious repercussions on other projects in the State. Moreover the holdings in the command are in U.P. are not every large. Therefore in U.P. the oustees would be able to resettle themselves if some additional incentive is given. In that case they would not avail of civil amenities. After hearing the Chief Minister of U.P. & M.P., the board approved the following norms for rehabilitation and civic amenities to the oustees of Rajghat Dam Project:-

1- ALLOTMENT OF HOUSE SITES

Every oustee family should be given a plot of land 60’ x 90’ free of cost.

2- DISPOSAL OF ACQUIRED PROPERTIES

The Board approved the following:-

(i) Trees

Even after payment of compensation the Ousteas should be allowed to take the timber of the trees acquired from them for their domestic use, except for the species nationalised in the State. The trees on the Government land should be disposed off by the Forest Department and its revenue should be credited to the project, after deducting the expenditure involved in the above operation.

(ii) Houses

Even after payment of compensation of their houses, the oustees should be allowed to take salvage materials for their use except the steel structure i.e. G.I. sheets, girders etc. However, in view of the fact that only few houses may have G.I. sheets and girders etc. the Board may further permit to take away these also.

3- CIVIC AMENITIES.

Regarding civic amenities, the Board approved the following norms, wherever they are required to be provided:-

- (i) One primary school (Three rooms) for 100 families.
- (ii) Each colony should be linked to main road by roads of appropriate standard (Three Km. per abadi)
- (iii) One dispensary for every 500 families.
- (iv) Drinking water well with through for every 50 families.
- (v) One Children park for every 500 families.
- (vi) One Panchayat Ghar for every 500 families
- (vii) One religious place of worship for every 100 families
- (viii) One platform for every 50 families.
- (ix) One seed store for every 500 families
- (x) One village pond for every 500 families
- (xi) Electrical distribution lines and street light (2 Km. per 100 families)
- (xii) Social amenities for every municipal town going under submergence i.e. water supply, sanitary arrangements, layout, levelling sites etc.

4- RESETTLEMENT GRANT.

Resettlement grant of Rs. 750/- inclusive of transportation charges may be given to each oustee family who avail of the rehabilitation facilities as per item 1 & 3 and in case of families who do not avail of the rehabilitation facilities as per item 1 & 3 the resettlement grant to be paid should be Rs. 2000/- for each oustee family.

ANNEXURE – IX

**LIST OF THE MEMBERS AND INVITEES WHO ATTENDED
THE 82nd & 83rd MEETING OF THE EXECUTIVE COMMITTEE
OF BETWA RIVER BOARD HELD ON
09-07-2009 & 24.12.2009 AT NEW DELHI**

GOVERNMENT OF INDIA**CHAIRMAN**

1. Shri A.K., Bajaj (82nd) & (83rd)
Chairman
Central Water Commission
New Delhi.

MEMBERS/THEIR REPRESENTATIVES**INVITEES**

1. Shri Indra Raj (82nd & 83rd)
Member(WP&P)
Central Water Commission
New Delhi.
2. Shri A.B. Pandya (82rd & 83rd)
Commissioner (Projects)
MOWR, New Delhi
- 3.. Shri K.Vohra (83rd)
Sr.Jt.Commissioner
MOWR
New Delhi.

1. Shri Joginder Singh(82nd) & 83rd)
Director (CBD)
Central Water Commission,
New Delhi.

GOVERNMENT OF UTTAR PRADESH**MEMBERS/THEIR REPRESENTATIVES****INVITEES**

1. Shri Kishan Singh Atooria(83rd)
Secretary (Irrigation)
Lucknow
2. Shri G.D.Singhal (82nd & 83rd)
Nodal Officer for
Engineer-in-Chief
Irrigation Deptt
Lucknow

1. Shri T.P.Pathak(82nd)
Commissioner
Jhansi
2. Shri S.H.M. Naqvi (82nd)
Chief Engineer(Betwa
U.P.I.D.,Jhansi
3. ShriS.C.Agarwal (83rd)
S.S.O for Chief Engineer
(Project Betwa) UPID,
Jhansi

GOVERNMENT OF MADHYA PRADESH

MEMBERS/THEIR REPRESENTATIVES

1. Shri Arvind Joshi (82nd & 83rd)
Principal Secretary
WRD, Govt. of M.P.
Bhopal (M.P)
- 2.. Shri A.K. Mittal (82nd)
Chief Engineer
Hydel(E/M)
MPPGCL (MPSEB)
Jabalpur
3. Shri Rajan Shrivastava (83rd)
Engineer-in-Chief (Bodhi)
MPWRD, Bhopal

INVITEES

1. Shri.P.K.Tiwari (83rd)
P.D.,P/W, MPWRD,
Bhopal (M.P)
2. Shri P.N. Nayak (83rd)
Superintending Engineer
Rajghat Canal Circle,
Datia (M.P)
3. Shri H.S. Namdeo (83rd)
S.E , Hydel., MPPGCL
(MPSEB) Jabalpur

BETWA RIVER BOARD, JHANSI

MEMBERS

1. Shri S.C.Gupta (82nd & 83rd)
Chief Engineer
Rajghat Dam Project
Jhansi
2. Shri M.K.Ghosh, (82nd & 83rd)
Financial Adviser,
Betwa River Board,
Jhansi.
3. Shri R.K. Jain (82nd & 83rd)
Secretary
Betwa River Board
Jhansi

**DETAILS OF CASES CONSIDERATION BY THE VARIOUS
STAFF SELECTION SUB-COMMITTEES DURING 2009-10**

S.No.	Date of joining	Name of Post	Selection/ Promotion	Extension
Group 'B'	07-07-2009	Assistant Engineer	1	-
	24-09-2009	Assistant Engineer	1	-
Group 'C'	17-07-2009	U.D.C.	1	-
	18-09-2009	Assistant Teacher	1	-
	16-06-2009	Divisional Accountant	1	-

