

No. 16/27/2017-PA (N)/ 606-648
Government of India
Central Water Commission
Project Appraisal Organization

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Date: 20.03.2017

Sub: 132nd meeting of the Advisory Committee for consideration of techno-economic viability of Major & Medium Irrigation, Flood Control and Multi-purpose project proposals held on Friday, 06th March, 2017 in New Delhi.

A copy of the Summary Record of Discussions of the subject meeting held on 06th March, 2017 in New Delhi is enclosed herewith for information and further necessary action please.

Comments, if any, may kindly be forwarded to the undersigned within 15 days.

Encl: As above


Chief Engineer (PAO) &
Member Secretary of the
Advisory Committee

To

Members of Committee:

1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
2. Secretary (Expenditure), Ministry of Finance, 1st Floor, North Block, New Delhi.
3. Secretary, Department of Power, Room No. 218(CR), S.S. Bhawan, IInd Floor, New Delhi.
4. Secretary, Ministry of Environment & Forests & CC, 4th Floor, Prithvi Block, Indira Paryavaran, Jor Bagh, New Delhi.
5. Secretary, Department of Agriculture, Cooperation & Farmers Welfare, R.No. 126, Krishi Bhawan, New Delhi.
6. Secretary, Ministry of Tribal Affairs, Room No. 738, A-Wing, Shastri Bhawan, New Delhi.
7. Director General, ICAR, Room No-108, Krishi Bhawan, New Delhi.
8. Chairman, CEA, Sewa Bhawan, R. K. Puram, New Delhi.
9. Chairman, Central Ground Water Board, Jam Nagar House, New Delhi.
10. Adviser (Power), NITI Aayog, Room No. 268, Yojana Bhawan, New Delhi.
11. Adviser (WR), NITI Aayog, Room No. 230, Yojana Bhawan, New Delhi.
12. Joint Secretary & Financial Adviser, MoWR, RD & GR, Room No-401, S.S. Bhawan, New Delhi.

Special Invitees:

13. Member (WP&P), CWC, New Delhi.
14. Member (D&R), CWC, New Delhi.
15. Member (RM), CWC, New Delhi.
16. Chairman, GFCC, Sinchai Bhawan, Patna
17. Secretary to the Govt. of Assam, Water Resources Department, Dispur, Guwahati – 6.
18. Principal Secretary, Water Resources Department, Government of Bihar, Sinchai Bhawan, Patna-800 015.
19. Additional Chief Secretary, Irrigation & Public Health, Government of Himachal Pradesh, Sachivalaya, Chota Shimla, Shimla-171 002.
20. Principal Secretary, Water Resources Department, Government of Jharkhand, Ranchi.
21. Secretary (I&FC), Govt. of J&K, Secretary, Jammu.
22. Principal Secretary, Irrigation & Water Resources Department, Government of Uttar Pradesh, Sachivalaya Annexe, Lucknow-226 001 (U.P.).
23. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
24. Commissioner (State Projects), MoWR, RD & GR, Room No-411, S. S. Bhawan, New Delhi.
25. Commissioner (FM), MoWR, Rd & GR, CGO Complex, 11th Block, 8th Floor, Lodhi Road, New Delhi.
26. Chief Engineer (PPO), CWC, New Delhi.
27. Chief Engineer (FMO), CWC, New Delhi.
28. Chief Engineer (IMO), CWC, New Delhi.
29. Chief Engineer, LGBO, CWC, Patna.
30. Chief Engineer, IBO, CWC, Chandigarh.

Copy for information to:

31. Sr. PPS to Secretary, MoWR, RD & GR, Room No. 407, Shram Shakti Bhawan, New Delhi.

Central Water Commission

SUMMARY RECORD OF DISCUSSIONS OF THE 132ND MEETING OF THE ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECT PROPOSALS HELD ON MONDAY, MARCH 6TH, 2017 IN NEW DELHI

The 132nd meeting of the Advisory Committee of Ministry of Water Resources, River Development & Ganga Rejuvenation (MoWR, RD&GR) for consideration of techno-economic viability of major & medium irrigation, flood control and multi-purpose project proposals was held under the Chairmanship of Dr. Amarjit Singh, Secretary to the Government of India, MoWR, RD&GR on Monday, 6th March, 2017 at 14:00Hrs in New Delhi. The list of members of the Committee or their representatives/nominees and Special Invitees and Officers from various Ministries/Organizations and representatives of State Governments, who attended the meeting, is at **Annex-I**.

At the outset, the Secretary (WR, RD & GR) and Chairman, Advisory Committee welcomed the participants and advised the Member Secretary that henceforth the following be presented in every meeting of the Advisory Committee:

1. Number of projects under appraisal/examination in CWC, GFCC, Brahmaputra Board and their status.
2. Plan of CWC, GFCC, and Brahmaputra Board with respect to priority of the projects under appraisal.

With regard to Flood Control/Coastal Protection Projects having estimated cost less than Rs. 25 crores, it was decided that the necessary mechanism may be explored, so that the State Govts may take their own decision in meeting of State TAC, if these projects are not the part of a Major project and do not have Inter-state or International ramifications. Necessary action may be taken by CWC for the revision of Guidelines in respect of appraisal of Medium Flood Control/Coastal Protection Projects. A Chief Engineer level officer from CWC / GFCC / Brahmaputra Board shall be one of the member of the State TAC. A set of DPR of such Projects shall be submitted to the said Chief Engineer 15 days before the date of meeting of State TAC. The inspection visit of proposed project area shall also be taken by officers of CWC/ GFCC/Brahmaputra Board. Category of medium project based on the cost may also be revised.

Thereafter, the agenda items were taken up one by one:

(i) Confirmation of the minutes of 131st meeting of the Advisory Committee

CE (PAO), CWC and Member Secretary informed that the 131st meeting of the Advisory Committee of MoWR, RD&GR on Irrigation, Flood Control and Multi-purpose Projects was held on 16.11.2016. Summary Record of Discussions was circulated vide letter No. 16/27/2016-PA(N)/4409-41 dated 30.11.2016. No comment has been received on the Summary Record of Discussion, hence Advisory Committee accordingly confirmed the Summary Record of Discussion of the 131st Meeting, as circulated.

(ii) Project Proposals deferred in previous meetings of the Advisory Committee

Following decisions were taken in respect of the project proposals which were deferred in previous meetings of the Advisory Committee:

a. Andhra Pradesh Irrigation and Livelihood Improvement Project Phase – II (APILIP-II) (New Major, Estimated Cost Rs. 2000 Cr. (B.C. ratio is yet to be finalized))

This project proposal was considered in the 131st meeting. During the said meeting, it was observed that the inter-state issues regarding water sharing between the States of Andhra Pradesh and Telangana need to be resolved. It was decided that the resolution of inter-state issues may be awaited.

However, the resolution of inter-state issues is still awaited and appraisal of other aspects of the proposal are under process. Hence, the Advisory Committee deferred the project proposal to next meeting.

b. Ujh Multipurpose Project, Jammu & Kashmir (New Multipurpose, Estimated Cost Rs. 3630.73 Cr. & PL 2013, B.C Ratio - 1.62).

This project proposal was considered in the 131st meeting. During the said meeting, this project was agreed "In Principle" by the Advisory Committee. However, due to issue of large submergence by the project, it was decided that a team shall visit the project site and explore the alternate options with reduced submergence/displacement along with minimum loss of power and irrigation benefits, so that the potential of east flowing river may be fully utilised, as envisaged

in Indus Water Treaty. Accordingly, the above mentioned team was constituted in December, 2016. The report of the team is awaited.

Further, the Environment and Forest Clearances are still awaited. It was decided in the meeting that the project will be re-submitted after Environment and Forest Clearance alongwith optimization suggested by team for utilization of full potential as per Indus Water Treaty.

In view of the above, the project was deferred to the next meeting of Advisory Committee. Further, the Chairman of the Committee directed that the visit of team may be expedited and report submitted at the earliest.

c. Morand & Ganjal Complex Project, Madhya Pradesh(New Major, Estimated Cost Rs. 2427.02Cr. @ PL 2016-17, B.C Ratio - 1.5)

This project proposal was considered in the 131st meeting. The Advisory Committee had observed that the following clearances are yet to be obtained:

1. Environmental Clearance from MoEF& CC.
2. Forest Clearance from MoEF&CC for diversion of 2371.13 Ha of forest land.
3. Clearance from Ministry of Tribal Affairs (MoTA) for the R&R plan of tribal population.
4. The agriculture yield and rate for pre and post project needs to be duly vetted by State Agriculture Department.

In view of the above the Committee had decided that the project proposal shall be re-submitted along with required clearances. The compliance on the above observation at point no. 4 i.e regarding agriculture yield and rate was received in CWC and Benefit Cost Ratio has been reworked out by CWC as 1.5. However, the statutory clearances as mentioned above at point no. 1 to 3 are still under process as communicated by the Project Authority vide letter dated 25.02.2017.

In view of the above, the Advisory Committee deferred the project to the next meeting.

d. Project Estimate for Rehabilitation, Renovation and Modernisation of various Distributaries Systems along with allied works in Punjab State (UBDC System), Punjab (Major ERM, Estimated Cost Rs. 1112.34 Cr. @ PL 2015)

This project proposal was considered in the 131st meeting. During the said meeting the issue of subsidy being paid by Govt. of Punjab for tube wells was discussed. "It was mentioned that presently the State Govt. was paying subsidy for



tube wells and after ERM of the project the commands served by tube wells start getting canal water and use of tube well will stop. It was however observed that the irrigation intensity being 92%, some of the command area will have to be served by tube wells and their use will not stop completely. The benefit in terms of subsidy has been calculated on pro rata basis considering the amount of subsidy being provided for entire State. This needs to be re-calculated for the command area of the project where the use of tube well shall be discontinued after its ERM. The subsidy should also be calculated considering the fact that tube wells will have to be operated for some period during the year and subsidy will have to be paid during the period of operation of tube wells. The revised BC ratio will be calculated accordingly."

The calculation of revised BC ratio is still awaited. Accordingly, the Advisory Committee deferred the project to next meeting.

e. Rajasthan Water Sector Livelihood Improvement Project (RWSLIP), Rajasthan (Major ERM, Estimated Cost Rs. 2783.60 Cr. @ PL 2016)

The proposal was considered and accepted in-principle by the Advisory committee of MoWR, RD & GR during its 131st meeting. During the said meeting, it was decided apart from other things that 1 major Project i.e. Mahi Irrigation project will be dropped from RWSLIP and appraisal of the proposal wherever not done shall be carried out as per established procedure.

In this context, Govt. of Rajasthan were requested to submit the complete required information in respect of irrigation planning aspect for 16 sample medium irrigation projects alongwith total revised/ modified cost and B.C ratio of the project. In spite of various reminders in this regard issued vide CWC letter dated 27.01.2017, 10.02.2017, 22.02.2017 & 27.02.2017 and phone calls as well as communicated through e-mails, the compliances to the comments of CWC are still awaited.

In view of the above, the Govt. of Rajasthan is advised to submit all pending compliances on observations of CWC on Irrigation Planning aspects of 16 Medium sample projects and modified cost and B.C ratio of project after deleting Mahi Project so that same can be placed in next meeting of the Advisory Committee.



(iii) **Project Proposals considered by the Advisory Committee**

A. Irrigation and Multi-purpose Projects

1. Renukaji Dam Project, Himachal Pradesh (Multipurpose, Estimated Cost Rs. 4596.76 Cr @ PL 2015-16)

CE (PAO), CWC and Member Secretary informed the Committee that the Renukaji Dam Project, Himachal Pradesh is contemplated as a storage scheme on river Giri, a tributary of river Yamuna. The Project envisages construction of 148-m high rockfill dam at about 5 km upstream of existing Jateon Barrage and about 375 m downstream of Confluence of Jogar-ka-khala with river Giri in District Sirmour of Himachal Pradesh. This project has been planned purely to supply the drinking water to National Capital Territory of Delhi. The live storage of 498 MCM will ensure a firm water supply to the tune of 23 cumecs during 9 months (September to June) to Delhi. It is also proposed to utilize the available head to generate 40 MW (2x20 MW) of power from the power house proposed at the toe of dam. Renukaji Dam Project has been declared as one of the 16 National Projects of the country by Govt. of India.

During the meeting, the Chairman of the Committee asked that why economic evaluation had not been done. Director, NP-1 Dte., CWC clarified that being Water Supply scheme, B.C ratio was not required to be calculated as per the Guidelines. However, Chairman of the Committee desired that the B.C ratio may be calculated assuming irrigation benefit by the water of Renukaji Dam Project for comparison.

The Project Authority made a detailed presentation on the proposal. After deliberation, the Advisory Committee accepted the Project proposal subject to the following conditions:

- (i) Submission of final Forest Clearance (Stage - II) for the project for diversion of 909.00 ha of forest land.
- (ii) Signing of agreement for benefit sharing in respect of Renukaji Dam project by the co-basin States.
- (iii) Vetting of power tariff by CEA.



General Conditions:

- (i) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.

2. Revised Cost Estimate of Modernisation of Ranbir Canal Project. (Revised Major - ERM, Estimated Cost Rs. 195.24Cr.@PL2015-16, B.C Ratio – 2.61)

CE (PAO), CWC and Member Secretary informed the Committee that the Ranbir Main Canal, 60 Km long, takes off from left bank of river Chenab upstream of Akhnoor bridge 25 km North-West of Jammu city. The project comprises 400 km of distribution system covering 489 villages.

The modernization of Ranbir Canal Project (ERM) of the Govt. of J&K had been formulated with a view to maximizing the utilizable irrigation potential by way of modernization, renovation of existing Ranbir Canal system in Jammu and Samba districts of the State. The ERM proposal was accepted by the Advisory Committee of MoWR in its 67th meeting held on 09.09.1997 for Rs 84.40 Crores (P.L 1995-96). The 1st Revised Cost Estimate for Rs. 176.89Cr. (PL 2008-09) was accepted by the 101st meeting of Advisory Committee on 30.11.2009.

Now, the Project Authority has submitted 2nd Revised Cost Estimate without change in scope of the ERM proposal. The present ERM proposal of Ranbir Canal envisages lining of the main canal and distribution system in the most vulnerable stretches, construction of 2 no. bridges on Main canal, construction of 22 no. culverts/T-Xings on distribution network of Main Ranbir canal, construction of 53 no. pucca outlets and other works. The ERM proposal contemplates to provide Annual Irrigation of 55418 ha benefitting Jammu & Samba districts of J&K.

The Chairman of the Committee asked the Project Authority why no works had been done for last two years. He also asked the Member-Secretary to submit Monitoring report of CWC as the project is under AIBP.

Further, representative of Chief Advisor (Cost), Min. of Finance stated that if the revised cost is more than 15% of previously approved cost, the revised cost should be approved by Revised Cost Committee of Ministry of Finance (MoF) as per the circular dated 05.08.2016 of MoF. The Chairman of the Committee desired that this should be clarified and checked whether applicable for this project.



The Project Authority made a detailed presentation on the proposal. After deliberation, the Project proposal was deferred and the same shall be re-submitted after addressing the following:

- i) The latest inspection report may be submitted in the next meeting of Advisory Committee.
- ii) The justification of acceptance of this project by Advisory Committee of MoWR, RD&GR in light of Ministry of Finance circular dated 05.08.2016.

3. North Koel Project, Jharkhand & Bihar (Revised Major, Estimated Cost Rs. 2391.37 Cr. @ PL 2016-17, B.C Ratio - 1.54)

CE (PAO), CWC and Member Secretary informed the Committee that the Project envisages construction of a 67.86 meter high dam on river North Koel at village Kutku in Palamu district of Jharkhand.

The water will be released in the river in a controlled way and picked up again at 814.13 m long Mohammadganj Barrage situated 96 Km downstream of the dam site. Right main canal is 110.44 Km long (31.4 Km in Jharkhand and rest in Bihar) and Left main canal is 11.89 Km long (entirely in Jharkhand).

The project was originally accepted by the Advisory Committee of MoWR in its 13th meeting held on 19.03.1980 for Rs. 113.17 crore subject to forest clearance by MoEF. Later on 11.89 km long Left Bank Canal (LBC) was added to the scope of the project. The modified proposal costing Rs. 439.03 Crore envisaging a live storage of 960 MCM to benefit 1.047 lakh ha was considered and accepted by the Advisory Committee of MoWR in September, 1989 in 44th meeting subject to compliance of stipulations of the Ministry of Environment & Forest.

Construction works had started in the year 1972. The completion of project is held up due to non-installation of gates of the dam. The MoEF& CC had objected to the installation of gates with the apprehension that water accumulated in the dam would threaten the Betla National Park and Palamu Tiger Reserve. Clearance from MoEF& CC in respect of submergence of forest land of 1007 ha of buffer area of Palamu Tiger Reserve is yet to be obtained.

In the meeting held on 11.08.2016 at Prime Minister Office, it was decided that the F.R.L. of the reservoir will be restricted to 341.00 m for saving of core area of Palamu Tiger Reserve. The project now contemplates to provide Annual Irrigation of 111521 Ha in drought prone area of Palamu & Garhwa districts of Jharkhand and Aurangabad & Gaya districts of Bihar.



During the meeting, the representative of MoEF&CC stated that request for Forest Clearance has not been received in MoEF&CC, New Delhi which may be expedited by the Project Authority.

The Project Authority made a detailed presentation on the proposal. After deliberation, the Advisory Committee accepted the Project proposal subject to the following:

- (i) Submission of State Finance Concurrence by Govt. of Jharkhand and Govt. of Bihar for their part of share of the project cost.
- (ii) Submission of Forest Clearance from MoEF&CC for diversion of 1007 Ha of forest land.

General Conditions:

- (i) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.

B. Flood Control Projects

1. Protection of Kolbari and Lolity Area from erosion of river Brahmaputra (Estimated Cost Rs. 34.6466 Cr. @ PL 2014-15, B.C Ratio – 3.29)

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 10800 ha and approximately 1,00,000 people from the river Brahmaputra in Kolbari & Lolity area of Jorhat district in Assam. The proposed scheme envisages construction of three numbers of Spurs and a check dam. It is also proposed to launch porcupine screens of different length at upstream of the proposed spurs and check dam.

The Chairman of the Committee emphasized that the State Govt. should fix priority of their Flood Control projects and implement accordingly.

The Project Authority made a detailed presentation on the proposal. After deliberation, the Advisory Committee accepted the project subject to the following:

- (i) Submission of proper State Finance Concurrence for the cost of Rs. 34.6466 Cr.
- (ii) The State should complete the project within next two years. B.C ratio and total cost will hold valid for this period only.
- (iii) The project will be implemented in an integrated manner with that of other Flood Control projects of Assam in Brahmaputra.

(iv) The acceptance of the project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as FMP etc.

2. Construction of anti-erosion works in between km 0.00 to km 7.30 of left bank of river Ganga near Mathar Diara (Munger Ghat to Tikarampur) in the districts of Begusarai, Khagaria and Munger, Bihar (Estimated Cost Rs. 56.0562 Cr. @ PL 2015, B.C Ratio - 1.39)

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 3000 ha and about 2,00,000 people from the river Ganga in Begusarai, Khagaria and Munger districts of Bihar. The main components of anti-erosion works are slope pitching with four layers of geo-bag; and launching apron in between km 0.00 to km 7.30 of left bank of river Ganga near Mathar Diara (Munger Ghat to Tikarampur)

The Project Authority made a detailed presentation on the proposal. After deliberation, the Advisory Committee accepted the project subject to the following:

- (i) The State should complete the project by March 2018 and B.C ratio and total cost will hold valid for this period only.
- (ii) The project will be implemented in an integrated manner with that of other Flood Control projects of Bihar on Ganga.
- (iii) The acceptance of the project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as FMP etc.

3. Construction of Marginal Bund on Left Bank of River Ganga from Jajmau Bridge to Shuklaganj old bridge from Km. 0.000 to Km 5.000, Uttar Pradesh (Estimated Cost Rs. 134.60 Cr. @ PL 2014, B.CRatio - 1.86)

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 3000 ha and approximately 2,87,525 people from the river Ganga in Unnao district of Uttar Pradesh. The scheme envisages construction of earthen marginal bund for 4.45 Km and construction of 3 nos. of regulators.

The Chairman of the Committee observed that the cost per area protected is very high when compared to other Flood Control projects. The Project Authority stated that due to higher land cost, cost of the project is more.



The Project Authority made a detailed presentation on the proposal. After deliberation, the Advisory Committee accepted the project proposal subject to the following:

- (i) The State should complete the project by 2018-19. B.C ratio and total cost will hold valid for this period only.
- (ii) The project will be implemented in an integrated manner with that of other Flood Control projects of UP on Ganga.
- (iii) The acceptance of the project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as FMP etc.

The meeting ended with a vote of thanks to the Chair.



LIST OF OFFICERS PRESENT IN THE 132nd MEETING OF THE ADVISORY COMMITTEE ON IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECTS ON MONDAY, THE 6TH MARCH, 2017 AT 14:00 HRS IN THE COMMITTEE HALL OF MINISTRY OF WATER RESOURCES, RD&GR, SHRAM SHAKTI BHAWAN, RAFI MARG, NEW DELHI.

Dr. Amarjit Singh, Secretary, MoWR, RD&GR

Chairman

Members, Advisory Committee or their representatives / nominees

S/Shri

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|----|---|------------------|
| 1. | Narendra Kumar, Chairman, CWC | Member |
| 2. | Dr. E.Sampath Kumar, Member (SML), CGWB (Representing Chairman, Central Ground Water Board. | Member |
| 3. | Jagmohan Gupta, Joint Secretary & Financial Advisor, MoWR, RD&GR | Member |
| 4. | D.K. Sinha, IG (FC), MoEF&CC | Member |
| 5. | Jitendra Kumar, Advisor (NITI Aayog) | Member |
| 6. | J S Bawa, Chief Engineer HPP&D Div. (Representative of Chairman, (CEA) | Member |
| 7. | Pradeep Kumar, Member (RM) & Chief Engineer, PAO, CWC | Member Secretary |

MoWR, RD & GR

S/Shri

1. Ajay Kumar, Sr. Joint Commissioner, MoWR, RD&GR
2. M.S. Sahare, Sr. Joint Commissioner, MoWR, RD&GR

Central Water Commission

S/Shri

1. S. Masood Husain, Member (WP&P)
2. N K Mathur, Member (D&R)
3. C K L Das, CE (PPO)
4. Navin Kumar, CE (IMO)
5. G.L.Bansal, Director, IP(S)
6. Rajesh Kumar, Director, IP(N)
7. Bhupesh Kumar, Dir. NP-II
8. Piyush Kumar, Director, FMP
9. Piyush Ranjan, Director, Project Appraisal (North)
10. A.K. Singh, Deputy Director, Project Appraisal (North)
11. M.S. Saravana Kumar, Deputy Director, Project Appraisal (Center)
12. Sharad Kumar Kaushal, AD, Project Appraisal (North)
13. Durgender Singh, AD-II, Project Appraisal (North)

Ministry of Finance

1. Pawan Kumar, Advisor, Cost, CAC, MoF
2. J. Bose, Director, CAC, MoF

Ganga Flood Control Commission

S/Shri

1. Arun Kumar Sinha, Member (planning), GFCC, Patna
2. Vivek Pal, Director, Lucknow

Officers from State Governments:

Assam

S/Shri

1. Satya Gopal Goswami, Addl. CE, WRD, Dibrugarh
2. S.A.Laskar, AEE, K.P.W.R. Subdivision, Jorhat

Bihar

S/Shri

1. Bijender Kumar Ram, CE, WRD, Samastipur, Bihar
2. Sanjay Raman, SE, WRD, Khagaria, Bihar
3. S.K. Srivastava, Superintending Engineer, WRD, Bihar
4. Manoj Kumar Sinha, Ex. Engineer, WRD, Bihar

Himachal Pradesh

S/Shri

1. S.L. Dogra, GM, Renukaji Dam Project, HPPCL, Sirmaur
2. .K.K. Goel, GM, Civil (Design), HPPCL, Sundernagar, Mandi
3. Sushil Sharma, Manager, Renukaji Dam Project, HPPCL, Sirmaur
4. Mayan Bahl, Dy. Manager, HPPCL, New Shimla

Jammu & Kashmir

S/Shri

1. Rajiv Gandotra, CE, I&FC
2. Vinod Bagati, EE, Irrigation Div.-I, Jammu
3. Sanjay Badan, AEE, I&FC

Jharkhand

S/Shri

1. M.L.Pingua, CE, WRD, Medninagar
2. Subhash, Singh, AE, Design Div. No-II, WRD, Medninagar

Uttar Pradesh

S/Shri

1. Pradeep Kr. Singh, EIC & HOD, Lucknow
2. Om Varma, CE, Sharda, WRD
3. V.K. Niranjana, SE, WRD, Lucknow
4. S.K. Jha, EE, Sharda Canal Div., Unnao.
5. Krishna Kumar, JE, Sharda Canal Div., Unnao
6. Jamuna Prasad, JE, Sharda Canal Div., Unnao