

No. 16/27/2019-PA (N)/383-408
Government of India
Central Water Commission
Project Appraisal Organization

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Dated: 30/01/2019

Minutes of Meeting

A copy of the Summary Record of Discussion of the 140th Meeting of the Advisory Committee of MoWR, RD&GR on Irrigation, Multipurpose and Flood Control Projects, held under the Chairmanship of the Secretary, MoWR, RD&GR on 22/01/2019 at Shram Shakti Bhawan, 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



(C K L Das)

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

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. 205, S.S. Bhawan, II 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. 248, 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:

1. Additional Secretary, MoWR, RD&GR.

2. Member (D&R), CWC, New Delhi.
3. Member (RM), CWC, New Delhi.
4. Member (WP&P), CWC, New Delhi.
5. Joint Secretary (IC&GW), MoWR, RD&GR.
6. Member-Secretary, UYRB, New Delhi.
7. Principal Secretary, Irrigation Department, Govt. of Uttarakhand, Dehradun.
8. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
9. Commissioner (State Projects), MoWR, RD & GR, Room No-411, S. S. Bhawan, New Delhi.
10. Commissioner (FM), MoWR, RD & GR, CGO Complex, 11th Block, 8th Floor, Lodhi Road, New Delhi.
11. Chief Engineer (PPO), CWC, New Delhi.
12. Chief Engineer (IMO), CWC, New Delhi
13. Chief Engineer, Design (N&W), CWC, New Delhi

Copy for kind information to:

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

Government of India
Ministry of Water Resources, River Development and Ganga Rejuvenation
Central Water Commission

**SUMMARY RECORD OF DISCUSSIONS OF THE 140th MEETING OF THE
ADVISORY COMMITTEE OF MoWR, RD&GR FOR CONSIDERATION OF
TECHNO-ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION,
FLOOD CONTROL AND MULTIPURPOSE PROJECT PROPOSALS HELD ON
TUESDAY, JANUARY 22ND, 2019 AT MoWR, RD&GR, SHRAM SHAKTI BHAWAN,
NEW DELHI**

The 140th Meeting of the Advisory Committee of Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD&GR) for consideration of the techno-economic viability of Major & Medium Irrigation, Flood Control and Multipurpose Project Proposals was held under the Chairmanship of Shri U.P. Singh, Secretary to the Government of India, MoWR, RD&GR on Tuesday, 22nd January, 2019 at MoWR, RD&GR Shram Shakti Bhawan, New Delhi. The list of members of the Committee or their representatives/nominees/special invitees and officers from various Ministries/Organizations and representatives of State Government who attended the meeting is at **Annexure**.

I. Confirmation of the Minutes of the 139th meeting of the Advisory Committee

The Committee was informed that the 139th Meeting of Advisory Committee of MoWR, RD&GR for consideration of the techno-economic viability of the Major & Medium Irrigation, Flood Control and Multipurpose Project was held on 07/01/2019 at CWC, New Delhi. The Summary Record of Discussions of the 139th Meeting was circulated vide letter No. 16/27/2018-PA(N)/106-134 dated 09/01/2019. No comments on the same have been received.

The Advisory Committee confirmed the Summary Record of Discussion of the 139th meeting of the Advisory Committee, in light of the follow-up discussion of the 139th Meeting, as under:

II. Follow up action after the 139th Meeting of the Advisory Committee

A. Ujh Multipurpose Project, Jammu & Kashmir

During the discussions on the Ujh Multipurpose Project, Jammu & Kashmir in the 139th meeting, the Secretary, MoWR, RD & GR and the Chairman of the Committee had observed that the power tariff reported of Rs. 2.21 per Kwh seems to be on lower side. Further, the Committee also noted that the plant load factor of 14.67% seemed to be low. The Committee thereafter advised that the average price of power per unit and number of units of energy generation may be relooked for reviewing the cost of the power component, in consultation with CEA and the Govt. of J&K.

In this regard, the Power Development Department, Govt. of J&K, vide letter no PDD/JK/19/UjhMPP dated 07/01/2019, has submitted that the average cost of power may be taken Rs. 3.5 per Kwh. Based upon this, the bearable cost of Irrigation and Power component of Ujh Multipurpose Project has been revised as below:

| Item | Amount (in Rs Cr.), based on power tariff rate of Rs. 2.21 per Kwh (139 th Meeting) | Final Amount (in Rs Crore), based on power tariff rate of Rs. 3.50 per Kwh |
|--|--|--|
| Total cost of project | 5850 Cr. (July 2017 PL) | 5850 Cr. (July 2017 PL) |
| Bearable cost of water component (irrigation & drinking) | 2970 Cr. | 2970 Cr. |
| Bearable cost of power component | 262 Cr. | 415.45 Cr. |
| Total viable cost of water and power component | 3232 Cr. | 3385.45 |
| Balance Cost | 2618 Cr. | 2464.55 Cr. |

Thus, the viability gap funding component comes out to be Rs. 2464.55 Cr. The Committee accepted the above changes with respect to the figures mentioned in the Minutes of the 139th Meeting.

Further, in respect of the review of the plant load factor, Chief Engineer (HPA), CEA informed that yearly average energy generation is under review stage and would be informed shortly.



B. With respect to the 139th Meeting of the Advisory Committee, the observation regarding the timely circulation of the Advisory Committee Note, received from the O/o Chief Advisor (Cost), Dept of Expenditure, Ministry of Finance was discussed.

In this regard, Secretary (MoWR, RD&GR) noted that the timely circulation of the documents is an important necessity for proper participation and appraisal of the project proposals. He advised the need for the timely circulation of the documents, 2-3 days prior to the date of the Meeting.

III. Project Proposal Considered by the Advisory Committee

A. Irrigation and Multipurpose Projects:

1. Revised Cost Estimate (RCE) of the Lakhwar Multipurpose Project, Uttarakhand (National Project, Multipurpose, Estimated Cost Rs. 5747.17 Cr. @ PL July, 2018)

A presentation on the project was made by the Project Authorities. An introduction to the background of the project was made, wherein it was informed that the original combined Lakhwar Vyasi Multipurpose Project was approved by the Planning Commission in 1976 (for an estimated cost of Rs. 140.97 Crore @ 1975 PL). The original Lakhwar Vyasi Multipurpose Project envisaged the construction of 192 m high Dam on Yamuna river near Lakhwar village to store 580 MCM of water, a power house (300 MW) at the foot of dam, an auxiliary dam (61m) and a balancing reservoir. The works on the project were initiated by the State Govt. of Uttar Pradesh in 1979. However, the progress of construction of the project works suffered due to the paucity of funds and the construction work was stopped during the year 1992.

Further, in July 2010, the Govt of Uttarakhand submitted the DPR of Lakhwar Multipurpose Project for the techno-economic appraisal in CWC and the 1st revised cost estimate of the Lakhwar Multipurpose Project was accepted by the Advisory Committee of MoWR, RD&GR in the 116th Meeting held on 14/12/2012, for an estimated cost of Rs 3966.51 Crore (@ May, 2012 PL). The Investment Clearance to the project was accorded by the Investment Clearance Committee, MoWR, RD&GR in its meeting held on 24/02/2016.

Further, the 2nd revised cost estimate of the project was finalised by CWC as Rs. 5747.17 Cr. at price level July, 2018. There is no change in the scope of the project and the revision in the



cost estimate has been necessitated due to price escalation, inadequate provision, change in design etc. The revised proposal for Lakhwar Multipurpose Project includes the following:

- a. 204 m high concrete Dam
- b. Deep seated sluice spillway
- c. Two nos horseshoe shaped diversion tunnels
- d. Power intake and penstocks
- e. Power house, for installation of 3 conventional units of 100 MW each
- f. Katapathar Barrage, consisting of 5 nos. of weir bays.

Before the stoppage of the construction works of the Project, the part works on the various components of the project, including abutment stripping of Lakhwar Dam (partially completed), construction of diversion tunnels (90% completed), construction of underground Powerhouse (50% completed), additional Collection Chamber (80% completed) have been carried out.

The detailed discussions on the project proposal were held and the Committee noted that the project is an important national project on Yamuna river which besides generating electricity and providing irrigation, drinking and industrial water, will be instrumental in ensuring release as per agreement signed *(on 28/08/2018 based on the 1994 MoU for sharing of storage water created as a result of implementation of project)* among the States of Himachal Pradesh, Uttarakhand, Uttar Pradesh, Haryana, National Capital Territory of Delhi and Rajasthan.

However, the committee noted that the cost apportionment amongst power, irrigation and drinking water components needs a relook. The irrigation benefits proposed to be accrued from the project also need a review. The Committee observed that these factors have a bearing on a number of aspects considered during the appraisal. Therefore, the Project Authorities may relook into the same and submit the revised proposal for consideration in the next meeting of the Advisory Committee.

B. Flood Control Projects: Nil

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



Annexure

LIST OF OFFICERS PRESENT IN THE 140th MEETING OF THE ADVISORY COMMITTEE OF MoWR, RD&GR ON IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECTS ON TUESDAY, THE 22nd JANUARY, 2019 AT 02:00 PM IN THE COMMITTEE ROOM (MoWR, RD&GR), I FLOOR, SHRAM SHAKTI BHAWAN, NEW DELHI.

Shri U.P. Singh, Secretary, MoWR, RD&GR

In Chair

Members of the Advisory Committee or their representatives/nominees

S/Shri

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|----|---|--------|
| 1. | S. Masood Husain, Chairman, Central Water Commission | Member |
| 2. | Jagmohan Gupta, JS & FA, MoWR, RD& GR | Member |
| 3. | P. C. Jiloha, Chief Engineer, HPA, CEA (Representing Chairman, CEA) | Member |
| 4. | Avinash Mishra, Adviser (WR&LR), NITI Aayog | Member |
| 5. | Dr. B. K. Yadav, Addl. Commissioner, DAC&FW (Representing Secretary, Department of Agriculture, Cooperation& Farmers Welfare) | Member |
| 6. | Shyla Titus, Director, Ministry of Tribal Affairs (Representing Secretary, Ministry of Tribal Affairs) | Member |
| 7. | Prabir Kumar Naik, Senior Hydrogeologist, CGWB (Representing Chairman, CGWB) | Member |

Special Invitees:

MoWR, RD&GR

S/Shri/Smt

1. T. Rajeshwari, Additional Secretary
2. K. Vohra, Commissioner (SPR)
3. D. P. Mathuria, Member- Secretary, UYRB
4. M. S. Sahare, Senior Joint Commissioner (FM)
5. Avanti Verma, Deputy Commissioner (SPR)
6. M. L. Franklin, Deputy Director (PMKSY), SPR wing

Central Water Commission

S/Shri

1. N.K. Mathur, Member (D&R)
2. S.K. Haldar, Member (WP&P)
3. R.K. Pachauri, Chief Engineer, PPO
4. S. K. Sibal, Chief Engineer, Design (N&W)



5. Navin Kumar, Chief Engineer, IMO
6. Bhupinder Singh, Director, NP Dte
7. Rajiv Kumar, Director, PA(C) Dte.
8. G.L. Bansal, Director, EA Dte.
9. Balram Kumar, Director, Cost Appraisal (Irrigation-1) Dte.
10. Anant Kumar Gupta, Director, Economics Dte.
11. Ashish Tripathi, Dy. Director, Cost Appraisal (Irrigation-1) Dte.
12. Sanjay Meena, Dy. Director, PA(N) Dte.
13. Mahesh Kumar Gupta, Dy. Director, NP Dte.
14. Durgendra Singh, AD-II, PA (N) Dte.

Officers from the State Government of Uttarakhand

S/Shri

1. S. K. Singh, General Manager (C), Lakhwar Project, UJVNL.
2. A. K. Sharma, EE (C), Lakhwar Project, UJVNL.
3. Rajeev K Agarwal, ED, Lakhwar Project, UJVNL.
4. P. C. Pandey, AE (Civil), Lakhwar Project, UJVNL.

Others

S/Shri

Vijay Kumar Pawar, ASCO, Department of Agriculture, Cooperation & Farmers Welfare

