

No. T-84/5/2020-CE-PAO/ 511-36
Government of India
Central Water Commission
Project Appraisal Organization

Telefax: 011-29583512
Email: cepriap@nic.in

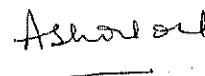
7th Floor (S), Sewa Bhawan,
R.K. Puram, New Delhi.
Dated: 20/08/2020

Minutes of Meeting

A copy of the Summary Record of Discussion of the 146th Meeting of Advisory Committee of DoWR, RD & GR on Irrigation, Multipurpose and Flood Control Projects, held under the Chairmanship of the Secretary, DoWR, RD & GR on 14.08.2020 through video conferencing, is enclosed herewith for information and further necessary action, please.

It is requested that comments, if any, on the enclosed Summary Record of Discussion, may kindly be forwarded to this office within 15 days.

Encl: As above.



(Ashok S Goel)
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, 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&LR), NITI Aayog, Room No. 230, Yojana Bhawan, New Delhi.
12. Joint Secretary & Financial Adviser, DoWR, RD&GR, 401, S.S. Bhawan, Delhi.

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Special Invitees:

1. Additional Secretary, DoWR, RD&GR.
2. Chairman, GFCC, Sinchai Bhawan, Patna, Bihar
3. Member (D&R), CWC, New Delhi.
4. Member (RM), CWC, New Delhi.
5. Member (WP&P), CWC, New Delhi.
6. Principal Secretary, WRD, Govt. of Manipur, Imphal.
7. Chief Engineer, WRD, Govt of Manipur, Imphal.
8. Joint Secretary (RD&PP), DoWR, RD&GR.
9. Joint Secretary (IC&GW), DoWR, RD&GR.
10. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
11. Commissioner (FM), DoWR, RD & GR, CGO Complex Lodhi Road, New Delhi.
12. Chief Engineer (B&BBO), CWC, Shillong.
13. Chief Engineer (FMO), CWC, New Delhi

Copy for kind information to:

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

Ashok

Government of India
Deptt. of Water Resources, River Development & Ganga Rejuvenation
Central Water Commission
Project Appraisal Organization

**ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC
VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD CONTROL AND
MULTIPURPOSE PROJECT PROPOSALS**

146th MEETING HELD ON AUGUST 14TH 2020 THROUGH VIDEO CONFERENCING

BRIEF RECORD OF DISCUSSIONS

The 146th meeting of the Advisory Committee of Department of Water Resources, River Development & Ganga Rejuvenation, for consideration of techno-economic viability of major & medium irrigation, flood control and multipurpose project proposals (Advisory Committee), was held under the Chairmanship of Shri U.P. Singh, Secretary to the Government of India, DoWR, RD&GR, MoJS, on Friday, 14th August, 2020 through video conferencing. The list of participants is **annexed** herewith.

At the outset, the Chairman welcomed the participants. The Member Secretary informed that Advisor (Cost) has conveyed that in view of non-availability of connectivity, he is unable to attend the meeting. However, he has forwarded his comments based on the perusal of TAC Note and DPR forwarded to him by the Member Secretary, for the schemes to be considered in the present meeting. He further informed that the same would be shared with the Members at the time of discussions on the schemes. Thereafter, the agenda for the meeting was taken up with the permission of the Chair.

I. Confirmation of the Minutes of the 145th Meeting of the Advisory Committee:

The 145th meeting of the Advisory Committee was held on 26/05/2020, through Video Conferencing. Thereafter, the Summary Record of Discussions was circulated vide letter No. T-28053/1/2020/410-22 dated 29/05/2020.

The Member Secretary briefed that the representative from Department of Expenditure had, vide email dated 27.5.2020, informed that due to connectivity problem, the issues pertaining to Schemes from Uttar Pradesh and Himachal Pradesh could not be raised by her during the meeting. These, along with write-up on the issues raised during the meeting by her, were enclosed with the mail. Thereafter, by another mail dated 10th June, 2020, she once again forwarded the balance issues which did not find place in the minutes, and has desired that the same may be appropriately incorporated in the minutes.

Members were further informed that the points discussed by Deptt. of Expenditure representative during the meeting, were duly incorporated in the minutes. However, the other issues which were not discussed in the meeting, have not been incorporated in the minutes. Thereafter, by a short presentation, the Member Secretary briefed the participants regarding the balance issues not

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included in the minutes. It was presented in detail that these balance issues flagged by Department of Expenditure representative through emails dated 10.6.2020, are duly justified by the existing guidelines, and hence do not impact the decisions taken in the meeting.

The Chairman further emphasized that the minutes are true representation of what is actually discussed in the meeting, and extraneous issues not taken up during the meeting, should not be included in the minutes. He further stressed that the cost details discussed during the Advisory Committee meeting are merely estimates, which may vary with the actual expenditure incurred during the implementation of the project. Also, acceptance by the Advisory Committee does not entitle the scheme for any central assistance. Therefore, these estimates are to be viewed in a broad perspective.

In view of the above, the minutes of the 145th Advisory Committee meeting circulated vide letter No. T-28053/1/2020/410-22 dated 29/05/2020, were confirmed. However, the Chairman desired that the Member Secretary may provide a detailed reply to the Deptt. of Expenditure representative in this regard.

II. Follow up Discussions of the 145th Meeting :

No follow up action was proposed.

III. Project Proposals considered by the Advisory Committee

Two Flood Control Schemes, both from Manipur, were considered by the Advisory Committee in its 146th Meeting, as per details below:

(i) Critical Flood control and anti-Erosion works along rivers in Manipur Basin (Estimated Cost Rs. 460.426 crore @ 2017 Price Level, B.C. ratio : 1.29)

The scheme proposes to provide flood protection in the six districts of Manipur, covering about 25,000 ha and benefiting 2.5 lakh population. It envisages provision of retaining wall along with bore piles at urban areas, and revetment at rural areas, as protection against bund erosion. Further, river bank trimming to restore rivers sections and to maintain the capacity for flow volume at specific sections of the river, and sluice gates to control the water level which will reduce over-flooding and inundation of water on specific area, have also been proposed. The detailed scope of the work provisioned in the scheme, is tabulated below:

Sl. No.	Type of work	Length (m)
1	Construction of retaining wall	14978
2	Construction of Revetment protection work	5713
3	Improvement of Embankment	49587.3
4	Sluice gates with slab culvert	5 no.
5	River bank Trimming	88817

(ii) An Integrated Approach To Flood Management & Control On River/Streams And Drainage in Loktak Sub-Basin Of Manipur (Estimated Cost Rs. 62.1426 crore @ 2017 Price Level, B.C. ratio : 1.41)

The scheme aims at an integrated approach in the flood affected reaches of rivers flowing within Imphal-West and Bishnupur districts of Manipur. The scheme will provide flood protection to an area to the tune of 10,000 ha and benefit 55,000 population. The provisions under the scheme include construction of embankment and improvement of river bank, retaining wall, gabion and revetment protection works, river bank trimming to restore rivers sections and to maintain the capacity for flow volume at specific sections of the river, and Sluice Gates with RCC slab culvert to control the water level. The detailed scope of work is as below:

Sl. No.	Type of work	Length (m)
1	Embankment and improvement of river banks	43803
2	Retaining wall	495
3	Gabion and revetment protection on river banks	2284
4	Construction of sluice gate with RCC culvert	18 nos.
5	River bank Trimming	96692

Detailed presentation on the above two schemes was made by Secretary, WRD, Govt. of Manipur, duly supported by the Chief Secretary, Manipur.

During the presentations, Advisor (WR), NITI Ayog, wished to know the reason for adopting the flood return period of 50 years, as against 100-year return period prescribed for Flood Management works in CWC Guidelines of 2018. Director FMP Dte., CWC, clarified that since major activities proposed under the scheme pertain to bank protection works, and improvement of existing embankments as against building new embankments, 50-year return period flood prescribed in IS code 14262:1995 & 8408:1994, has been followed. Advisor (WR), NITI Ayog further wanted to know whether appropriate arrangements have been thought of for disposal of muck. It was informed by Chief Secretary, Manipur that a lot of road building activities are underway in the benefitted areas, and the muck may be suitably utilized there.

Commissioner (FM), DoWR, RD&GR desired to know if there are any issues pertaining to land acquisition etc., especially for bank trimming works in urban areas. It was assured by Govt. of Manipur representatives that no such issue is involved in the present schemes.

The Member Secretary put forth the issues communicated by Advisor (Cost), Department of Expenditure, applicable for both the schemes. The issues, and the clarifications thereon, as discussed in the meeting, are as below:

Sl. No.	Issue raised by Deptt. of Expenditure, in brief	Clarification / outcome of discussion
1	Basis for estimation of cost towards preliminary work for the subject projects, may be provided.	1-2% allowed by CWC Guidelines. In the present schemes, 1% adopted.
2	Labour Cess of @ 1% on the aggregate amount of cost of Works has been included in the project cost. The Building and Other Construction Workers Cess Act, 1996 cannot be construed to be a tax at all.	The issue has already been discussed in detail in 145 th meeting of the Advisory Committee, and duly reflected in its minutes.
3	In analysis of rates, certain aspects like 10% wastage of material for gate fabrication, provision of 1% against sundaries, inclusion of bought out items for estimating contractor's profit and overheads, need to be optimized.	The analysis of rates adopted for the two schemes, has been duly ratified by the State Govt. agencies, while according state level clearances.
4	GST on bought out material leads to double taxation.	The issue of GST has been duly incorporated in the minutes of 145 th meeting of the Advisory Committee.
5	It is necessary to consider income/revenue (if any) from disposal of muck for estimation of project cost.	It was clarified by the Govt. of Manipur representatives that the muck being of poor economic value, may not have any impact on the cost estimate of the schemes. However, this aspect shall be taken care of at the time of tendering etc.
6	Cost estimation should have been provided in soft copy (in Excel –Linked work sheet) in respect of the subject projects, to enable detailed examination.	The DPR, as provided by the project authorities, has been duly shared.
7	For calculating BC Ratio, only anticipated annual losses/damages (if the project is not taken up) may be considered, since past losses cannot be undone by developing the proposed infrastructure.	B.C.Ratio calculations for both the schemes, is in line with the CWC guidelines.
8	Sensitivity analysis be carried out considering variations (especially downward) in the benefit and likely increase in cost due to time overrun, which is a usual phenomenon in projects.	The same is not presently prescribed in CWC guidelines.

After deliberations, both the above project proposals, namely:

(i) Critical Flood control and anti-Erosion works along rivers in Manipur Basin (Estimated Cost Rs. 460.426 crore @ 2017 Price Level, B.C. ratio : 1.29), and

(ii) An Integrated Approach To Flood Management & Control On River/Streams And Drainage in Loktak Sub-Basin Of Manipur (Estimated Cost Rs. 62.1426 crore @ 2017 Price Level, B.C. ratio : 1.41)

were accepted by the Advisory Committee. However, the acceptance of the proposals by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

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

**ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-
ECONOMIC VAIBILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD
CONTROL AND MULTIPURPOSE PROJECT PROPOSALS**

**146th MEETING HELD ON, AUGUST 14TH 2020 THROUGH VIDEO
CONFERENCING**

List of Participants

Shri U.P. Singh, Secretary, DoWR, RD & GR - In Chair

Officers from State Government of Manipur

S/Shri

1. Dr. Rajesh Kumar, Chief Secretary
2. Ms. Jacintha Lazarus, Commissioner (Water Resources)
3. G. Robindro Sharma, Engineer in Chief
4. Songput N. Albert, Chief Engineer

Members of the Advisory Committee or their representative / nominees:

S/Shri

1. R.K. Jain, Chairman, Central Water Commission
2. Dr. S. Kerketta (Representing Secretary, MoEF & CC)
3. S.K. Juneja, (Representing Chairman, Central Ground Water Board)
4. Avinash Mishra, Adviser (WR&LR), NITI Aayog
5. Jagmohan Gupta, JS & FA, DoWR, RD & GR
6. R.A.S Patel, Deputy Commissioner (Representing Secretary, DAC & FW)
7. Ashok S.Goel, Chief Engineer, Project Appraisal Organisation, CWC - Member Secretary

Special Invitees:

DoWR, RD & GR/MoEF&CC/ICAR/CGWB

S/Shri

8. Atul Jain, Commissioner (FM), DoWR, RD & GR
9. Saidul Haq, Scientist-D, Representing CGWB
10. Adlul Islam, Pr. Scientist, ICAR, Pusa, New Delhi.

Central Water Commission

S/Shri

1. R.K.Sinha, Member (RM)
2. S.K. Haldar, Member (WP&P)
3. B.K Karjee, Chief Engineer, FMO,
4. P.M Scott, Chief Engineer, BBBO Shillong

5. V.D Roy, Superintending Engineer (HOC), BBBO Shillong
6. P.Dorje Gyamba, Director, WP&P
7. Kiran Pramanik, Director, PA(N)
8. Rajiv Kumar, Director PA(C)
9. Nityanand Mukherjee, Director PA(S)
10. Piyush Kumar, Director, FMP Dte.
11. Samir Kumar Shukla, BCD (E&NE), Dte.,
12. Ankit Sahay, Deputy Director, CA(HWF) Dte.
13. M.K Gupta, Deputy Director PA(N) Dte.
14. Ankit Dudeja, Deputy Director, BBBO Shillong,
15. Nitish Nitin, Assistant Director PA(N) Dte.
16. Dharmendra Chauhan, Assistant Director, FMP Dte.

Ministry of Power

S/Shri

1. Jaideep Singh Bhawa, Chief Engineer, CEA
2. R.P Pradhan, Director, Ministry of Power

Ganga Flood Control Commission,

S/Shri

1. Abhay Kumar, Director, Lucknow
2. Ajit Kumar, Director, Patna

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