

No. 16/27/2015-PA(N)/ 666-7a2

**GOVERNMENT OF INDIA**  
**MINISTRY OF WATER RESOURCES**  
Central Water Commission  
(Project Appraisal Organization)

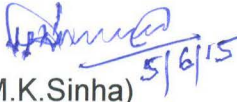
Room No. 510(S), Sewa Bhawan,  
R.K. Puram, New Delhi.  
Ph: 26103561, e-mail: panorth@nic.in  
**Dated: 05<sup>th</sup> June, 2015**

**Sub: 125<sup>th</sup> meeting of the Advisory Committee of MoWR, RD & GR for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Projects proposals held on 25<sup>th</sup> May, 2015.**

A copy of the Summary Record of Discussions of the subject meeting held on 25<sup>th</sup> May, 2015 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

  
(Dr. M.K. Sinha)  
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, (1<sup>st</sup> Floor) North Block, New Delhi.
3. Secretary, Department of Power, S.S. Bhawan, II<sup>nd</sup> Floor, New Delhi.
4. Secretary, Ministry of Environment & Forests, 4<sup>th</sup> Floor, Room No - 404/05, Paryavaran, Bhawan, CGO Complex, New Delhi.
5. Secretary, Department of Agriculture & Cooperation, 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. Sr. Adviser (Power), NITI Aayog, Room No-107, Yojana Bhawan, New Delhi.
11. Adviser (WR), NITI Aayog, Yojana Bhawan, New Delhi.
12. Joint Secretary & Financial Adviser, Ministry of Water Resources, 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. Commissioner (State Projects), Room No-411, S. S. Bhawan, MoWR, RD & GR New Delhi.
17. Commissioner (FM), MoWR, CGO Complex, Lodhi Road, New Delhi
18. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, Lok Nayak Bhawan, New Delhi.
19. Principal Secretary, Water Resources Department, Government of Madhya Pradesh, Sachivalaya, Arera Hills, Bhopal.
20. Principal Secretary, Water Resources Department, Government of Maharashtra, Mantralaya, Mumbai-400032.
21. Secretary, Department of Irrigation and Flood Control, Govt. of Assam, Secretariat, Guwahati-781006.
22. Secretary, Irrigation Department, Govt. of Karnataka, MS Building, 6<sup>th</sup> Floor, Karnataka Government Secretariat, Dr. Ambedkar Veedhi, Bangalore-560001.
23. Secretary, (PWD/ Irrigation & PHE), Govt. of Jammu & Kashmir, Civil Secretariat, Srinagar-190001.
24. Secretary, Irrigation and Public Health, Govt. of Himachal Pradesh, Sachivalaya, Simla- 171002.
25. Principal Secretary, Irrigation and Water Resources Department, Government of U.P, Babu Bhawan, Lucknow, Uttar Pradesh.
26. Secretary, Water Resources Department, Govt. of Bihar, Sinchai Bhawan, Patna-800015.
27. Principal Secretary, Irrigation & Flood Control Department, Govt. of Manipur, Manipur Secretariat, Imphal- 795001.
28. Secretary, Irrigation and Waterways Directorate, Government of West Bengal, Jalsampad Bhawan, Salt Lake, Kolkata- 700091.
29. Secretary, Public Works Department, Secretariat, Government of Tamil Nadu, Chennai- 9.
30. Chairman, GFCC, Sinchai Bhawan, Patna
31. Chief Engineer, PPO, CWC, New Delhi.
32. Chief Engineer, FMO, CWC, New Delhi.
33. Chief Engineer, NBO, CWC, Bhopal.
34. Chief Engineer, C&SRO, CWC, Coimbatore.
35. Chief Engineer, B&BBO, CWC, Shillong.
36. Director, SM Directorate, CWC, The Summary Record of Discussions may please be uploaded in the CWC website.

**Copy for information to:**

37. Sr. PPS to Secretary, Ministry of Water Resources, Room No-407, Shram Shakti Bhawan, New Delhi.



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

**SUMMARY RECORD OF DISCUSSIONS OF THE 125<sup>TH</sup> 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, MAY 25<sup>TH</sup>, 2015 IN NEW DELHI**

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The 125<sup>th</sup> 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 Shri A.K. Bishnoi, Secretary to the Government of India, MoWR, RD&GR on Monday, May 25<sup>th</sup>, 2015 at 1500Hrs 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 asked the Member Secretary to take up the agenda items.

**(i) Confirmation of the minutes of 124<sup>rd</sup> meeting of the Advisory Committee**

CE (PAO), CWC and Member Secretary informed that the 124<sup>th</sup> meeting of the Advisory Committee was held on 16<sup>th</sup> October 2015 and the Summary Record of Discussion was circulated vide CWC letter No. 16/27/2013-PA (N)/837-867 dated 27.10.2014. No comment has been received on the Summary Record of Discussion. The Advisory Committee accordingly confirmed the Summary Record of Discussion of the 124<sup>th</sup> meeting, as circulated.

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

CE (PAO), CWC and Member Secretary informed that during previous, i.e., 124<sup>th</sup> meeting, following proposals were deferred, which might be considered by the Advisory Committee;

- (a) Nandur Madhyameshwar Project, Maharashtra (Revised Cost, Major, Cost Estimate Rs. 1482.08 Cr at Price Level 2013-14)**
- (b) Lower Terna Project, Maharashtra (Revised Cost, Major, Cost Estimate Rs. 435.15 crore at Price Level 2011-12)**

CE (PAO), CWC and Member Secretary informed that these projects were deferred in the 124<sup>th</sup> meeting as the model code of conduct was in place in the Maharashtra State due to then ensuing Legislative Assembly Elections in October 2014. In spite of several reminders to the State Government, the State Finance Concurrence (SFC) for these Projects had not been received. He further stated that delay in receipt of SFC

  
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may necessitate cost revision and returning the project proposals to the State Government.

The Advisory Committee deferred the proposal for want of SFC for consideration in the next meeting.


- (c) **Anti-erosion work near Khairpur, Raghapur, Akidatpur and Shankarpur village on the left bank of river Ganga upstream of Vikramshila bridge and activation of Kargil Dhar in Bhagalpur district of Bihar (Estimated cost Rs. 68.3226 Cr at 2013-14 Price Level)**
- (d) **Scheme for restoration of spurs no. 1,7,8 & 9 and construction of new spurs between spur no.4 & 5, construction of bed bars in the downstream of spur no. 1,2,3,4,7 & 9 and upstream of spur no.1, maintenance of approach road, service road of Ismailpur-Bindtoli embankment on left bank of river Ganga downstream of Vikramshila bridge and activation of Chourasi Dhar in Bihar (Estimated cost Rs 96.3 Cr at 2012 Price Level)**

The Member Secretary informed that these schemes were deferred in the 124<sup>th</sup> Meeting with an advice that State Government may resubmit the revised schemes based on final results of model studies by CWPRS, Pune. The GFCC has informed that the State Govt. of Bihar has withdrawn these schemes due to likely delay in the model studies, and in turn, proposed a new Scheme titled "**Anti-erosion work near Khairpur, Raghapur, Akidatpur and Shankarpur villages on the left bank of river Ganga. Restoration of spur and maintenance of service road and approach road**" costing **Rs. 70.68 crore.**" This new scheme has clubbed the works of above two Schemes while removing the proposal of activation of old river courses.

The Chairman, CWC wanted to know the efficacy of changed planning without considering the results of model studies. The Secretary (WRD), Govt. of Bihar informed that the region faces the fury of the flood every year with substantial amount being regularly spent on flood control measures. Stating that efforts are being made for the model studies, he requested for clearance of the Scheme. The Chairman, GFCC also emphasized the importance of flood fighting measures required for protection of the affected villages in order to minimize the food damages without waiting for model studies.

The new scheme does not contain the activation of old Kargil dhar and Chourasi dhar, which are proposed as a part of above two original schemes which would be taken up up, as informed by State Govt., once the model studies are completed by CWPRS, Pune. The new scheme will not impact the overall objective and performance of above proposed two original schemes, and also model study is not relevant for this new scheme.

GFCC has recommended the proposal for acceptance by Advisory Committee. Considering the necessity of immediate flood control measures, as indicated by the GFCC and the State Government, the Advisory Committee accepted the Scheme.

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

**A. Irrigation and Multi-purpose Projects**

**1. Borolia Irrigation Project, Assam (Revised Cost, Medium, Cost Estimate Rs. 157.03 Cr at Price Level 2013)**

CE (PAO), CWC and Member Secretary informed that Borolia Irrigation Project, in the Baksa District of Assam, envisages construction of a barrage across the Borolia River and a canal system to cater to Culturable Command Area (CCA) of 9717 ha with an Annual Irrigation potential of 13562 ha. The original Project Report of Borolia Irrigation Project was first approved during 1979 in the 12<sup>th</sup> TAC meeting for Rs. 6.775 crore at 1978 price level. Subsequently, the Project has gone two cost revisions and now the third revised cost estimate of Rs. 157.03 crore is under consideration.

The Secretary (WR, RD&GR) wanted to know the reason of delay of more than 30 years in completion of the Project. The Assam Government representative explained that the Project, being situated in main Bodoland, had suffered badly for Law and Order issues, besides inadequate availability of fund. With improvement in the situation at present, it is expected to be completed by 2017 as major works, including Barrage and Main canal, had already been completed.

CWC has recommended the proposal for acceptance by Advisory Committee. After some deliberations, the revised cost estimate of the Project was accepted by the Advisory Committee.

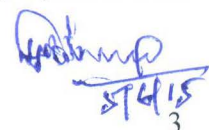
**2. Modernisation of Tunga Anicut Canal Network, Karnataka (ERM, Medium, Cost Estimate Rs. 239.75 Cr Price Level 2012-13)**

CE (PAO), CWC and Member Secretary informed that the proposal relates to Extension, Renovation & Modernization (ERM) of Tunga Anicut canal network, constructed during 1955-56, in Shimoga district of Karnataka. The planned CCA of project was 14,500 ha which has now been reduced to 9,844 ha due to change in land use as well as rapid urbanization in the project command. The proposed annual irrigation is 11,732 ha. The present ERM proposal envisages re-sectioning, lining, improvement of structures, construction of causeways, measuring devices, etc. The cost of present proposal is Rs. 239.75 crore at 2012-13 Price Level with benefit cost ratio as 1.53.

CWC has recommended the proposal for acceptance by Advisory Committee. After deliberations, the Advisory Committee accepted the proposal.

**3. Modernisation of canal system of Bhadra reservoir project, Karnataka (Revised Cost, ERM, Major Irrigation, Cost Estimate Rs. 1175.79Cr. Price Level 2014)**

CE (PAO), CWC and Member Secretary informed that the proposal relates to revised cost estimate of ERM of the canal system of Bhadra reservoir project. The original ERM proposal, to overcome the deficiency of canal system of Bhadra project and to

  
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restrict the water utilization within its allocation as per KWDT Award, was accepted for Rs. 951 crore at 2007-08 Price Level. The change in cost is primarily due to price escalation (81%). The benefits cost ratio of the project is 1.65.

CWC has recommended the proposal for acceptance by Advisory Committee. After deliberation, the Committee accepted the proposal.

**4. Sonthi Lift Irrigation Scheme, Karnataka (New, Major Irrigation, Cost Estimate Rs. 673.90 Cr. Price Level 2013-14)**

CE (PAO), CWC and Member Secretary informed that Sonthi Lift Irrigation Scheme envisages lifting of water from river Bhima, in Chittapur taluka of Gulbarga district to irrigate an annual area of 16,800 ha in the command of 16,000 ha (CCA) in the drought prone Gulbarga and Yadgir district of Karnataka state. The total proposed water utilization by the project is 99.06 MCM (3.50 TMC). The project also has hydropower potential of 13.5 MW. The finalized cost of the project is Rs. 673.90 Crore at 2013-14 Price Level with benefit cost ratio as 1.3, which is acceptable as project covers the drought prone area.

CWC has recommended the proposal for acceptance by Advisory Committee. After deliberation, the Committee accepted the proposal.

**5. Ghogra Complex Medium Irrigation Project, Madhya Pradesh (New, Medium, Rs. 145.37 Cr., PL 2014-15)**

CE (PAO), CWC and Member Secretary informed that the Ghogra Complex Medium Irrigation Project envisages construction of Ghogra Medium dam & Upper Ghogra Feeder dam across river Ajanal and Ghogra Feeder dam on local nalla, a tributary of river Ajanal in Ajnal Sub Basin of Narmada Basin in Madhya Pradesh. It is proposed to provide irrigation facilities to 5613 ha CCA with annual irrigation of 7775 ha. The estimated cost of the Project at current Price level is Rs. 145.37 crore plus CADWM costs of Rs. 29.64 crore and the benefit cost ratio is 1.65.

JS&FA, MoWR,RD&GR indicated that the project cost has been indicated at 2009 price level, whereas it should be taken as at 2014-15 price level. In view of the certificate dated 30/09/2014 issued by the Chief Engineer, Govt. of MP that the SoR still hold good, he suggested for obtaining a specific undertaking from the State Govt.

The Secretary (WR,RD&GR) enquired from the representatives of the State Govt. about the present status of the Project. They informed that till date an expenditure of Rs. 116 Crore out of total estimated cost of Rs. 145.37 Crore has already been spent.

The issue of sanctity of techno-economic appraisal of the projects where the project is at very advance stage of construction was deliberated upon. The members of Advisory Committee including representative from NITI AYOJ unanimously felt that techno-economic acceptance at this stage of the project, when majority of the expenditure has already been incurred, may not serve the objective of appraisal. Considering it as a fait-acompli, the project was not considered by the Advisory Committee.

  
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**6. ERM of Rajghat Canal Project, Madhya Pradesh (Revised Cost, ERM, Major Irrigation, Cost Estimate Rs. 56.83 Cr. Price Level 2014-15)**

CE (PAO), CWC and Member Secretary informed that the revised cost estimate of ERM proposal envisages additional lining of canals/distributaries and construction of gates/regulators, etc. besides the original ERM proposal of strengthening of embankments, protection of outer slopes, restoration of bed gradients and inner canal section and repairs to lining, etc. The cost of ERM of Rajghat Canal Project, Madhya Pradesh was originally finalized for Rs. 34.15 Cr at SoR 2009 in June, 2011 and accepted by the Advisory Committee in 110<sup>th</sup> meeting. The revised cost proposal under consideration is for Rs. 56.83 crore plus Rs. 389.36 crore already approved for CADWM works by CADWM Wing of MoWR, RD&GR in 2010. The Benefit Cost ratio comes to 2.73.

On a query regarding increase in costs, when the schedule of rates has not changed since 2011, the State Govt. Representative informed that cost revision is due to additional requirements for canal lining, strengthening earth work in vulnerable areas, additional construction of gates/regulators, etc. They also confirmed that the SoR at 2009 price level still hold good. The Advisory Committee suggested that a specific undertaking should be obtained from the State Govt.

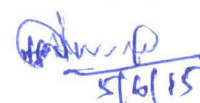
The Secretary (WR, RD&GR) suggested that the Irrigation Projects should be examined in an integrated manner along with the CAD&WM works. CWC Officers agreed with the same and indicated that in the instant case, the costs and benefits for the CAD&WM works had been accounted for. The expenditure on CAD works, as per information available with MoWR, RD&GR is Rs 64.46 Crore upto March, 2014.

CWC has recommended the proposal for acceptance by Advisory Committee. After deliberations the Project was accepted by the Advisory Committee.

**7. Revised Cost Estimate of Pench Diversion Project, Madhya Pradesh (Revised Cost, Major, Cost Estimate Rs. 2191.14 Cr at Price Level 2014-15)**

CE (PAO), CWC and Member Secretary informed that the Pench Diversion Project was earlier considered by the Advisory Committee at its 85<sup>th</sup> meeting held on 22.02.2006 and was accepted for Rs. 583.40 Crores (PL 2005). The State Govt. submitted revised cost estimate with changes in scope by increasing annual irrigation from 96519 Ha. to 1,22,023 Ha. (with CCA remaining the same, i.e., 70918 Ha.) by making provisions of lining in main canal and distributaries increased cost of land acquisition.

The representative of Ministry of Tribal Affairs (MoTA) pointed out that the resettlement & rehabilitation (R&R) plan of tribal families coming under submergence has not been submitted to Ministry of Tribal Affairs. The Member Secretary indicated that the present proposal is for Revised Cost Estimate. Further, as per the project proposal, the persons affected by submergence were proposed to be resettled in adjoining area as per R&R Plan of the project (prepared on the basis of R&R Policy of Narmada Project) cleared by the MoTA vide letter No. 20017/4/89/TD(B) dated 22.11.1990. The proposal





was stated to be revised according to NRR-2003 & resubmitted to MoTA for their approval. However, the latest status of the Rehabilitation and Resettlement is not yet submitted by the Project Authority.

The Secretary (WR,RD&GR) enquired from the State Govt. representatives that despite the present schedule of rates being valid from 2009 till date, how an increase of Rs 1134 Crore is being attributed to price escalation with provision for land increasing more than 11 times. The State Govt. representative informed that the increase in this head is primarily due to increase in land cost on account of new Land Acquisition Act, 2013. Director Cost Appraisal (I), CWC informed that the project component(s) especially 4 nos of distributaries system including its command had been awarded on turn-key basis without the backing of adequate survey & investigation. In the absence of field reports of soil trial pit samples, etc., the arrived cost is based on the assumed hypothetical soil strata proposed by project authorities. The provision for different canals structures is also based on few sample costs, which may not be representative samples for such contracts. As the final lengths of these branch canals, distributaries and minors may vary significantly, the provisions made for these structures may also get impacted.

The Advisory Committee felt that several issues regarding the Project had remained unanswered besides there being a Supreme Court case also on the environmental aspects. The increase in provision for land costs and other items need thorough examination. The Advisory Committee asked the representatives of the State Govt. to provide all details to CWC for re-appraisal.

**8. Datuni Irrigation Project, Madhya Pradesh(New, Medium Irrigation, Cost Estimate Rs. 174.55 Cr. Price Level 2014-15)**

CE (PAO), CWC and Member Secretary informed that Datuni Medium Irrigation Project proposes to construct a medium irrigation Tank across river Datuni, a tributary of Narmada river in District Dewas in Madhya Pradesh. It envisages irrigation to CCA of 9073 ha with Annual Irrigation of 8800 ha at an estimated cost of Rs. 174.55 crore.

The representative of Ministry of Tribal Affairs (MoTA) pointed out that the resettlement & rehabilitation (R&R) plan of tribal families coming under submergence had not been submitted to Ministry of tribal Affairs. The Member Secretary brought out that the State Government has submitted that the present proposal does not require MoTA clearance in view of State's Aadarsh Rehabilitation Policy, 2002. The MoTA representative emphasized that compliance to the provisions of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 must be ensured.

The Secretary (WR,RD&GR) enquired from the representatives of the State Govt. about the present status of the Project. They informed that till date an expenditure of Rs. 142 Crore out of total estimated cost of Rs. 174.55 Crore has already been incurred.

  
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The Advisory Committee unanimously reiterated that techno-economic acceptance at this stage of the project, when majority of the expenditure has already been incurred; may not serve the objective of appraisal. Considering it as a fait-acompli, the project was not considered by the Advisory Committee.

**9. ERM of Tawa Irrigation Project, Madhya Pradesh(ERM, Major Irrigation, Cost Estimate Rs. 56.83 Cr. Price Level 2014-15)**

CE (PAO), CWC and Member Secretary informed that Tawa Irrigation Project, completed in 1978, consists of a dam on River Tawa and Canal System in district Hoshangabad and Harda, Madhya Pradesh catering to a CCA of 240953 ha with proposed annual irrigation of 325393 ha. The Tawa Canal system has suffered serious damages over the years, as a result presently annual irrigation of only 192762 ha is being achieved. The present proposal of ERM aims to improve the system deficiencies by de-silting and lining of canals, renovation/strengthening of embankments/structures in addition to increase the CCA from 240953 ha to 293240 ha.

The Member Secretary informed that the State Govt. has submitted that the category of the Project is not changing, hence environmental clearance is not required for increasing CCA of Tawa Project by undertaking ERM. Referring to the provisions of EIA notification, 2006, he also informed about the clarification received from the MoEF&CC vide letter no. J-11013/35/2014-IA.I dated 30<sup>th</sup> July, 2014 that any significant change in project components which would alter the project configuration will necessarily require EIA/EMP study afresh and the case will be treated as modification. expansion and modernization of existing projects or activities as covered under the provisions of EIA Notification, 2006.

In view of the statutory provisions, the Advisory Committee advised the State Government to obtain Environmental Clearance for its consideration.

**10. Upper Pravara Project, Maharashtra (New, Major Irrigation, Cost Estimate Rs. 1482.08 Cr. Price Level 2013-14)**

CE (PAO), CWC and Member Secretary informed that Upper Pravara Project (Nilwande Dam) on river Pravara, a tributary of Godavari River, in District Ahmednagar, Maharashtra envisages to irrigate a command area of 86,100 ha (CCA) with annual irrigation of 68,878 ha in drought prone areas of Ahmednagar and Nasik districts of Maharashtra. Besides this the project has a provision of drinking water to the tune of 13.15 MCM and hydro-power potential of 11 MW.

The Member Secretary further informed that in spite of several reminders to the State Government, the State Finance Concurrence (SFC) for this Project had not been received. He further stated that delay in receipt of SFC may necessitate cost revision and returning the project proposals to the State Government.

The Advisory Committee deferred the proposal for want of SFC for consideration in the next meeting.

  
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**11. Dolaithabi Barrage Project, Manipur (Revised Cost, Medium, Cost Estimate Rs. 509.70Cr. Price Level 2013)**

CE (PAO), CWC and Member Secretary informed that the present proposal relates to 4<sup>th</sup> revision of the cost of Dolaithabi Barrage Project located at Dolaithabi in the Imphal East District of Manipur. He informed that the project was initially sanctioned for Rs. 18.86 crore (price level 1985) in 1992, but to law and order problems and inadequate fund (in spite of being covered under AIBP), delay in finalization of model studies by CWPRS, Pune, the construction of the Project has been considerably delayed. The present increase in cost is primarily due to change in design (62%) as per the model studies. The B.C Ratio is 1.1, which is acceptable as project pertains to Manipur being a Special category State.

The Chairman CWC supplemented that the project area is badly affected by insurgency, which is the main reason for delay in completion. He recommended its acceptance by the Committee.

CWC has recommended the proposal for acceptance by Advisory Committee. After deliberations the Revised Cost Estimate was accepted by the Advisory Committee.

**B. Flood Control Projects**

**1. Raising and strengthening of embankment with anti erosion measures on left bank of river Saralbhangha from Patgaon to Khalashi Assam District Kokrajhar, Assam (Estimated cost Rs 28.50 Cr; Price Level 2014-15)**

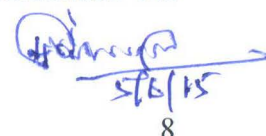
CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 3350 ha and approximately 1,00,000 people on the left bank of river Saralbhangha in Kokrajhar district at an estimated cost of Rs.28.50 Crores. The B.C Ratio for the Project had been estimated as 7.90.

JS&FA, MoWR, RD&GR pointed out that the Finance Concurrence is conditional of central assistance in a specific ratio, which cannot be confirmed at this stage. The techno-economic appraisal should be based on the willingness of the State Government to undertake the Project on its own. The representative of Ministry of Finance endorsed the same view.

After deliberations, the Advisory Committee asked the State Govt. representative to submit the unconditional SFC and deferred the proposal for consideration in the next meeting of Advisory Committee.

**2. Protection of Bramhaputra dyke at Amguri Pichala area from the erosion of river Brahmaputra, District Sonitpur, Assam (Estimated cost Rs. 53.36 Cr Price Level 2013-14)**

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect Brahmaputra dyke at Amguri Pichala area from the erosion due to Brahmaputra river in Sonipur district of Assam. The project after implementation will

  
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protect an area of 7017 ha and approximately 1,00,000 people at an estimated cost of Rs. 53.36 Cr at Price Level 2013-14 with benefit cost ratio of 2.08.

Member Secretary, further, informed that State Finance Concurrence has not been submitted by the State Govt. despite many reminders. The Advisory Committee asked the State Govt. representative to submit the SFC in proper format and deferred the proposal for consideration in the next meeting.

**3. Revised detailed project report for construction of embankments along river Jhim and Jamura (Adhwara Group) from Sonbarsa Bajar to Sonbarsa village in Sitamarhi District, Bihar (Estimated cost Rs. 134.20 Cr at 2013-14 Price Level)**

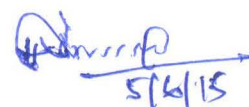
CE (PAO), CWC and Member Secretary informed that the proposed scheme benefitting a population of 5.26 lakh and 17,400 ha of agricultural land, is a revised scheme, which was initially approved by Advisory Committee in its 102<sup>nd</sup> meeting held on 28.01.2010 for an estimated cost of Rs. 64.52 Cr. An amount of 3.0 Cr was released as first installment of Central Assistance for which utilisation certificate has already been submitted by the State Govt. The scheme has been examined in GFCC and found techno-economically viable at revised cost of Rs. 134.20 Cr at 2013-14 Price Level with Benefit Cost ratio of 1.10.

The Secretary (WR, RD & GR) enquired about reasons for more than four times increase in the provision for land from Rs. 22.70 Cr in year 2010 to Rs. 91.50 Cr in the present proposal. The Secretary (WRD), Govt. of Bihar informed that it is primarily due to implementation of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013. The Secretary (WR, RD & GR) wanted to know about detailed calculations, which was not readily available. He asked Chairman GFCC to re-examine the details, with all supporting documents. The Advisory Committee suggested that GFCC may collect all details from the State Govt. and put up in the next meeting.

**4. Bagmati Flood Management Scheme Phase-III (a), Bihar (Estimated cost Rs 912.45 Cr at 2013-14 Price Level)**

CE (PAO), CWC and Member Secretary informed that the proposed scheme envisaged raising and strengthening of existing Bagmati right embankment for Ch 123.52 km to 165.52 km (42 km), Ch 198.52 km to 246.02 km (47.5 km), and Ch 246.02 km to 264.02 km (18 km) in addition to anti flood sluices and allied works. The scheme has been examined in GFCC and found techno-economically viable at a Benefit Cost ratio of 1.20 with estimated cost of Rs 912.45 Cr at 2013-14 Price Level.

The Secretary (WR, RD & GR) enquired about estimation of land acquisition cost and detailed justification for the large provision under subhead Land, i.e., Rs. 361.92 Cr. He asked Chairman GFCC to re-examine the details, with all supporting documents. The Advisory Committee suggested that GFCC may collect all details from the State Govt. and put up in the next meeting.

  
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**5. Revised Bagmati Flood Management Scheme Phase-II, Bihar (Estimated cost Rs 1283.50 Cr at 2012 Price Level)**

CE (PAO), CWC and Member Secretary informed that the proposal relates to revision in the cost estimate from Rs. 596.51 Cr accepted in 2011 to Rs. 1283.50 Cr. primarily due to increase under subhead Land (415%) and under subhead Works (471%). The scheme has been examined in GFCC and found techno-economically viable at a Benefit Cost ratio of 1.14.

The Secretary (WR, RD&GR) enquired about procedure adopted for estimation of land acquisition cost and justification for large increase in provision under subhead Land and subhead Works as compared to earlier provisions approved in year 2011. The Secretary (WRD), Govt. of Bihar assured to get back with all details. He asked Chairman GFCC to re-examine the details, with all supporting documents. The Advisory Committee suggested that GFCC may collect all details from the State Govt. and put up in the next meeting.

**6. Channelisation of River Pabbar from Tikkari to Hatkoti, Tahsil Rorhu, Distt. Shimla, Himachal Pradesh (Estimated cost Rs 190.82 Cr at 2014 Price Level)**

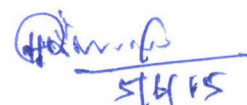
CE (PAO), CWC and Member Secretary informed that the proposed scheme would protect population of 2000 houses and 177 ha of land from flood damage by channelization of River Pabbar from village Tikkari to village Hatkot in Shimla district of Himachal Pradesh. The scheme has been examined in GFCC and found techno-economically viable at a Benefit Cost ratio of 1.60 with estimated cost of Rs 190.20 Cr at 2014 Price Level.

The project has been recommended by GFCC for acceptance by Advisory Committee. It was observed that Finance Concurrence given by State Finance Department could have been clearer with less ambiguity. The representative of the State Govt. assured that they had discussed the matter with State finance and verbal commitment for SFC in clear terms is confirmed and the same would also be formally submitted in the prescribed format within 2 days, (which had been received subsequently).

Considering the techno-economically viability and the undertaking by the representative of the State Govt., the Advisory Committee accepted the proposal.

**7. Swan River Flood Management Project Downstream of Santokhgarh Bridge upto H.P –Punjab Boundary, District Una, Himachal Pradesh (Estimated cost Rs. 48.814 Cr at Price Level 2013-14)**

CE (PAO), CWC and Member Secretary informed that the proposal envisages protection of population of 20,607 and 478 ha of land by constructing embankments downstream of Santokhgarh bridge in a length of 2.5 km on left bank and 4.2 km on right bank of river Swan as well as 0.80 km on right bank tributary up to HP-Punjab boundary. The scheme has been examined in CWC and found techno-economically viable at a Benefit Cost ratio of 2.04. with an estimated cost of Rs 46.80 Cr at 2014 Price Level.

  
5/4/15



The project has been recommended by CWC for acceptance by Advisory Committee. It was observed that Finance Concurrence given by State Finance Department could have been clearer with less ambiguity. The representative of the State Govt. assured that they had discussed the matter with State finance and verbal commitment for SFC in clear terms is confirmed and the same would also be formally submitted in the prescribed format within 2 days, (which had been received subsequently).

Considering the techno-economically viability and the undertaking by the representative of the State Govt., the Advisory Committee accepted the proposal.

**8. Project Report for priority works- Comprehensive plan for Flood management works on Jhelum, Phase-I, Jammu & Kashmir (Estimated cost Rs. 399.29 Cr at Price Level 2014)**


CE (PAO), CWC and Member Secretary informed that the proposed scheme would protect population of 1,35,000 and 33,613 ha of land by addressing the immediate problems of existing flood spill channel and main river Jhelum besides outfall channel in order to partially mitigate the flood problems of Srinagar, Budgam, Baramulla, Anantnag, Pulwama and Bandipura districts of Jammu & Kashmir. He stated that the Scheme assumes significance in context of worst flood experienced by Kashmir valley in year 2014. The scheme has been examined in CWC and found techno-economically viable at a Benefit Cost ratio of 1.77 with estimated cost of Rs 399.29 Cr at 2014 Price Level.

The project has been recommended by CWC for acceptance by Advisory Committee. It was observed that Finance Concurrence given by State Finance Department could have been clearer with less ambiguity. Commissioner(SP), MoWR, RD&GR highlighted the background of the worst flood of year 2014 and urgency to take immediate measures for flood protection. The representative of the State Govt. assured that they had discussed the matter with State finance and verbal commitment for SFC in clear terms is confirmed and the same would also be formally submitted in the prescribed format within 3 days (which had been received subsequently).

After deliberations and consideration of urgent requirement of flood management in Jhelum, the Advisory Committee accepted the proposal.

**9. Project for construction of Aile Persauli Lolpur bund on the left bank of river Ghagra/ Saryu in Gonda district, Uttar Pradesh (Estimated cost Rs. 43.55 Cr at Price Level 2014)**

CE (PAO), CWC and Member Secretary informed that the proposed scheme would protect population of 1,12,410 and 32,816 ha of land by constructing the 42.2 km long earthen embankment in Gonda district of UP from Aile to Lolpur along the left bank of river Ghaghra/Saryu in addition to 6 nos of flapper gate regulators. The scheme has been examined in GFCC and found techno-economically viable at a Benefit Cost ratio of 4.21 with estimated cost of Rs 43.55 Cr at 2014 Price Level.

  
5/12/15

The Secretary (WR,RD&GR) enquired about the minimal provision under subhead Land. The State Govt. representative told that farmers are willing to give their land for construction of flood protection work keeping in view the heavy flood damages being faced by them.

The project has been recommended by GFCC for acceptance by Advisory Committee. After deliberations, the Advisory Committee accepted the proposal.

**10. Phase-I works of Ghatal Master Plan in Paschim Medinipur and Purba Medinipur Districts of West Bengal (Estimated Cost Rs. 1214.92 Cr at Price Level 2013-14)**

CE (PAO), CWC and Member Secretary informed that the proposed scheme would protect population of 1,12,410 and 32,816 ha of land by construction of flood protection works along the Kangsabati, river Silabati, river Dwarekeshwar and drainage congestion due to tidal effects in Rupnarayan river in Ganga basin covering Paschim Medinipur and Purba Medinipur districts of West Bengal. The scheme has been examined in GFCC and found techno-economically viable at a Benefit Cost ratio of 4.21 with estimated cost of Rs 43.55 Cr at 2014 Price Level.

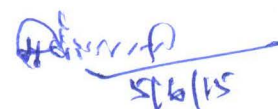
The project has been recommended by GFCC for acceptance by Advisory Committee. It was observed that Finance Concurrence given by State Finance Department could have been clearer with less ambiguity. The representative of the State Govt. assured that they had discussed the matter with State finance and verbal commitment for SFC in clear terms is confirmed and the same would also be formally submitted in the prescribed format within 2 days (which had been received subsequently).

After deliberations, the Advisory Committee accepted the proposal.

**C. Any Other Item**

CE (PAO), CWC and Member Secretary informed that a proposal titled **“Formation of Flood Carrier Canal from Kannadian Channel to drought prone area of Sathankulam, Thisaiyanvilai by interlinking Tamirabarani, Karumeniyar and Nambiyar Rivers in Tirunelveli and Thoothukudi Districts of Tamilnadu”** was under appraisal and pending for want of environmental clearance from the Ministry of Environment, Forest & Climate Change. The Scheme is sub-judice in the Hon'ble High Court, Madras vide Writ Petition No. 22881 of 2014, wherein MoWR, RD & GR has given assurance to recommend the project for consideration of the Advisory Committee within 8 weeks from the date of receipt of Environmental Clearance.

The Member Secretary, further, informed that though the Minutes of 82<sup>nd</sup> Meeting of Expert Appraisal Committee of MoEF&CC held on 26-27<sup>th</sup> February 2015 clearing the project is available, formal clearance letter of environment is still awaited. The Secretary (WR,RD&GR) stated that all activities mentioned in the undertaking are pursuant to the Environment Clearance and that is pre-requisite for the techno-economic acceptance.


  
5/6/15



After deliberations, the State Govt. was asked to submit formal environment clearance letter so that the project can be considered in the next meeting of Advisory Committee.

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

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5/6/15

**125<sup>TH</sup> 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, MAY 25<sup>TH</sup>, 2015 IN NEW DELHI**

**LIST OF PARTICIPANTS**

1. Shri Anuj Kumar Bishnoi, Secretary, MoWR, RD & GR **Chairman**

**Members, Advisory Committee or their representatives / nominees**

**S/Shri**

- |                                                                                                             |                  |
|-------------------------------------------------------------------------------------------------------------|------------------|
| 1. A.B. Pandya, Chairman, Central Water Commission                                                          | Member           |
| 2. Dr. E. Sampath Kumar, Member CGWB, (representing Chairman, CGWB)                                         | Member           |
| 3. S. K. Kohli, JS & FA, Ministry of Water Resources, River Development & Ganga Rejuvenation                | Member           |
| 4. P. K. Aggarwal, Advisor(Cost), Ministry of Finance (representing Secretary Ministry of Finance)          | Member           |
| 5. Avinash Mishra, Joint Advisor, NITI Aayog (representing Advisor (Water Resources))                       | Member           |
| 6. Jaideep Singh Bawa, Director (representing Chairman, Central Electricity Authority)                      | Member           |
| 7. C.M. Pandey, Additional Commissioner (NRM) (representing Secretary, Deptt. of Agriculture & Cooperation) | Member           |
| 8. Roopak Chaudhuri, Deputy Secretary, MoTA (representing Secretary Ministry of Tribal Affairs)             | Member           |
| 9. Dr. M.K. Sinha, Chief Engineer, Project Appraisal Organization, Central Water Commission                 | Member Secretary |

**MoWR, RD & GR**

**S/Shri**

1. Pradeep Kumar, Commissioner (State Projects), MoWR, RD & GR
2. N.K. Mathur, Commissioner (FM), MoWR, RD & GR

**Central Water Commission**

**S/Shri**

3. A. Mahendran, Member (WP&P), CWC
4. C.K. Agrawal, Member (D&R), CWC
5. Narendra Kumar, Member (RM), CWC
6. C.P. Singh, Chief Engineer (FMO), CWC
7. P.M. Scott, Chief Engineer (PPO), CWC
8. Lalit Kumar, Chief Engineer (NBO), CWC
9. J.Chandra Shekhar Iyer, Chief Engineer (C&SRO), CWC
10. R.K. Sinha, Chief Engineer (B&BBO), CWC



11. L.P. Singh, Director(M&A), Bhopal, CWC
12. Pankaj Tyagi, Director (A), Bengaluru, CWC
13. Virendra Sharma, Director, CA(HWF), CWC
14. Pramod Narayan, Director, Project Appraisal (S), CWC
15. B.C. Vishwakarma, Director, IP(S), CWC
16. R.P.S Verma, Director, EA, CWC
17. Rajesh Kumar, Director(FM-I), CWC
18. Sudhir Kumar, Deputy Director, Project Appraisal (South), CWC
19. A.K. Singh, Deputy Director, Project Appraisal (North), CWC
20. M.S. Saravana Kumar, Deputy Director, Project Appraisal (North), CWC

### **Ganga Flood Control Commission**

#### **S/Shri**

1. G.S. Jha, Chairman,
2. A. Parmesham, Member (C)
3. A.K. Sinha, Member (Planning)
4. Indu Bhushan Kumar, Chief Engineer

### **State Governments**

#### **Assam**

##### **S/Shri**

1. Ajit Kumar Sarkar, CHD, Irrigation, BTC, Kokrajhar
2. Biman Bardos, Additional Chief Engineer, WRD, Kokrajhar,
3. Tapan Kumar Saikia, Executive Engineer, Borolia Division
4. Palashjyoti Goswami, Executive Engineer, Kokrajhar Water Resources Division
5. Subhash C Choudhury, Executive Engineer, Kokrajhar
6. Sadhan Barman, Assistant Executive Engineer, Borolia Division

#### **Bihar**

##### **S/Shri**

1. Dipak Kumar Singh, Secretary, WRD
2. Dinesh Prasad, Executive Engineer, FLM Division

#### **Jammu & Kashmir**

##### **S/Shri**

1. Mir Javel Jaffeur, Chief Engineer, Irrigation and Flood Control, Sri Nagar

#### **Himachal Pradesh**

##### **S/Shri**

1. R.K. Kanwar, Engineer-in-Chief, IPH Department
2. M.S. Kanwar, Engineer-in-Chief (Projects), IPH, Shimla
3. Naveen Puri, Superintending Engineer, IPH, Shimla

4. N.M. Saini, Superintending Engineer, IPH, Una
5. A.K. Bansal, A.A.E, IPH sub division, Una
6. P.P. Sharma, Assistant Engineer, IPH, Shimla

#### **Karnataka**

##### **S/Shri**

1. Gurupada Swamy B.G., Secretary, Deptt. Of Water Resources
2. R. Rudraiah, M.D., KNNL, Deptt. Of Water Resources
3. Pramod Reddy Patil, Chief Engineer, KBJNL
4. A.S. Patel, Chief Engineer, KNNL.
5. K.G. Mahesh, Director, KBJNL
6. M.G. Shiva Kumar, Superintending Engineer, KNNL

#### **Madhya Pradesh**

##### **S/Shri**

1. Rajeev Kumar Sukalika, Chief Engineer, O/o Commissioner, CADA, Bhopal
2. Kamlesh Kumar Khare, Superintending Engineer, WR Circle, Bhopal
3. H.N. Gupta, Executive Engineer, WRD, Dewas
4. Mohan Singh, Executive Engineer, Panch Canal Division, Chhindwada

#### **Maharashtra**

##### **S/Shri**

1. S.R. Tirmanwar, Superintending Engineer, Beed Irrigation Project Circle
2. G.R. Borkar, Executive Engineer, NMC, Aurangabad

#### **Manipur**

##### **S/Shri**

1. W.L. Hangshing, Additional Chief Secretary
2. G. Robindeshwar, Chief Engineer(IFCD)
3. N. Karuuaeharja, Chief Engineer(IFCD)

#### **Tamil Nadu**

##### **S/Shri**

1. K.V. Rajan, Special Secretary, PWD
2. PL. Valliappan, Chief Engineer, WRD, PWD
3. A. Malaichamy, Superintending Engineer, Tirunelveli
4. R. Ramachandran, Executive Engineer, PWD



### **Uttar Pradesh**

#### **S/Shri**

1. P.K. Srivastav, Chief Secretary-I
2. R.C. Verma, Superintending Engineer, XV Irrigation Works Circle, Gonda
3. M. Parvez, Flood Works Division, Gonda

### **West Bengal**

#### **S/Shri**

1. D. Sengupta, Joint Secretary, I&W Department
2. B. Mukhopadhyaya, Deputy Secretary, I&W Department