

No. 16/27/2011-PA (N)/ 1391-1424

GOVERNMENT OF INDIA  
CENTRAL WATER COMMISSION  
PROJECT APPRAISAL ORGANIZATION


510(S), SEWA BHAWAN,  
R. K. PURAM,  
NEW DELHI-110 066  
Date: 05.08.2011

Sub: 110<sup>th</sup> meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 20.07.2011.

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Enclosed please find herewith a copy of the summary record of discussions of the above meeting held at New Delhi on 20<sup>th</sup> July, 2011 at Sewa Bhawan, R. K. Puram, New Delhi for information and necessary action.

Encl: As above

  
(S.K. Srivastava) 05/08/11  
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, Ministry of Tribal Affairs, Room No. 738, A-Wing, Shastri Bhawan, New Delhi.
6. Secretary, Department of Agriculture & Cooperation, Krishi 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, Man Singh Road, New Delhi.
10. Adviser (WR), Planning Commission, Yojana Bhawan, New Delhi.
11. Sr. Adviser (Power), Planning Commission, Room No-107 Yojana Bhawan, New Delhi.
12. Financial Adviser, Ministry of Water Resources, 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 (Projects), Room No-411, S.S.Bhawan, MoWR, New Delhi.
17. Commissioner (Ganga), Ministry of Water Resources, CGO Complex, New Delhi.
18. Commissioner (B&B), Ministry of Water Resources, Mohan Palace, New Delhi
19. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, Lok Nayak Bhawan, New Delhi.
20. Principal Secretary, Water Resources Department, Government of Karnataka, Bangalore.
21. Principal Secretary, Water Resources Department, Government of Madhya Pradesh, Bhopal.
22. Principal Secretary, Water Resources Department, Government of Haryana, Civil Secretariat, Sector-17, Chandigarh.
23. Secretary, Water Resources Department, Government of Arunachal Pradesh, Itanagar-791113.
24. Secretary, Water Resources Department, Government of Assam, Guwahati-781006.
25. Secretary, Irrigation & Public Health, Government of Himachal Pradesh, Sachivalaya, Simla-171 002.
26. Secretary, Water Resources Deptt, Govt of Maharashtra, Mantralaya, Mumbai, 400032
27. Chairman, Brahmaputra Board, Bashistha, Guwahati (Assam).
28. Chief Engineer, KNNL, Irrigation(N) Karnatka Neervari Nigam Ltd, Club Road, Belgaum-590001 (Karnataka).
29. Chief Engineer, RBC Project, Dhasan Ken Basin, Block- Nowgoug, Chhatarpur (M.P.).
30. Chief Engineer (Co-ordination), Irrigation Department, Government of Haryana, Sichai Bhawan, Sector-5, Panchkula-134109.
31. Chief Engineer, Water Resources Deptt, Govt. of Arunachal Pradesh, Itanagar-791113.
32. CE, FMO, CWC, New Delhi.
33. CE, IMO, CWC, New Delhi

**Copy for information to:**

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



**SUMMARY RECORD OF DISCUSSIONS OF THE 110<sup>th</sup> MEETING OF THE ADVISORY COMMITTEE ON IRRIGATION, FLOOD CONTROL AND MULTI PURPOSE PROJECTS, HELD ON 20<sup>th</sup> JULY 2011 FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF PROJECT PROPOSALS.**

The 110<sup>th</sup> meeting of the "Advisory Committee on Irrigation, Flood Control and Multi-purpose Project" was held on 20.07.2011 at 1500 hrs in the Conference Room of Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi under the Chairmanship of Shri D.V. Singh, Secretary (WR). List of participants is enclosed at Annexure-I.

At the outset, Chairman welcomed the participants and requested the Member-Secretary to take up the agenda for discussion. Agenda items discussed and decisions taken are as under:

**I) CONFIRMATION OF THE SUMMARY RECORD OF THE DISCUSSIONS HELD DURING THE 109TH MEETING:**

The Summary Record of Discussions of the 109<sup>th</sup> Advisory Committee meeting was circulated vide Letter No.16/27/2011-PA (N)/589-610 dated 29.03.2011. Since, no comments on the same have been received, the Committee confirmed the Summary Record of discussions of the 109<sup>th</sup> Advisory Committee meeting.

**II) PROJECT PROPOSALS CONSIDERED BY THE ADVISORY COMMITTEE:**

**1.0 REHABILITATION, RENOVATION AND MODERNIZATION OF CRITICALLY DAMAGED CHANNELS OF HARYANA IRRIGATION NETWORK, HARYANA (ERM-MAJOR, Estimated Cost Rs. 115.94 Crore at 2011 Price Level):**

Government of Haryana informed that the proposed measures were different from the routine O&M works and that in view of the various structures etc. becoming more than 30 years old, modernization along with some major repairs etc. were considered necessary with a view to restore the full potential and also to improve the productivity in the command.

Government of Haryana stated that new proposals are not taken up for execution; sufficient budget is being provided towards O&M of the existing canal system. The project authorities clarified that the works would be completed by March 2012.

The committee accepted the proposal



**2.0 SRI RAMESHWARA LIFT IRRIGATION SCHEME, KARNATAKA (NEW-MAJOR, Estimated Cost Rs. 331.55 Crore at 2010-11 Price Level):**

Government of Karnataka, stated that nearly 85% of the works related to Head works had been completed while works related to main canal, branch canal and distributory network is scheduled to be taken up soon. Balance works would be completed by March 2013. About increase in produce per hectare of Jowar from 5 to 55 quintal and ground-nut from 4 quintal to 35 quintal in post project scenario, the project authorities informed that the proposed estimate was based on the information provided by the District and State Agriculture Authorities who have duly vetted the proposal. Such yield of the said crop has already been actually observed in the upstream command of the project. Representative of the Ministry of Agriculture also stated that such improvement in yield was possible for high yield variety crops.

CWC stated that in the Benefit-Cost Ratio computations, market rate i.e. Rs. 2.75 per unit has been taken into consideration. With this market rate, the B. C. ratio as worked out to be 1.11 and is acceptable since the project is benefitting the drought prone areas of Belgaum district. The project is also covered under Central Assistance of Hon'ble PM's package. Hubli Electric Supply Company under Karnataka Power Transmission Co. Ltd. has already sanctioned the power requirement to this project.

The committee accepted the proposal.

**3.0 RAJGHAT CANAL PROJECT, MADHYA PRADESH (NEW-ERM, Estimated Cost Rs. 34.15 Crore at 2009 Price Level).**

Govt. of M.P indicated that during the passage of time, the irrigation potential of the project has been reduced due to system deficiencies and damage to some of the structures which led to reduced supply of irrigation water to the respective command of the projects. The present ERM proposal has been proposed to restore the irrigation potential in the existing command of the project. Further, the entire Command Area Development (CAD) works of the project is under Bundelkhand Package.

Govt. of M.P clarified that the SOR in the State has not been revised and that the SOR-2009 is applicable as on date. Further, the tender cost of the works of this project

is generally 5-10 % less than the estimate. There would be no further revision in the cost estimates of the projects.

The committee accepted the proposal with the condition that no further time and cost overrun would be allowed.

**4.0. RANGWAN HIGH LEVEL CANAL SYSTEMS, MADHYA PRADESH (NEW-ERM, Estimated Cost Rs. 39.04 Crore at 2009 Price Level).**

Govt. of M.P indicated that during the passage of time, the irrigation potential of the project has been reduced due to system deficiencies and damage to some of the structures which led to reduced supply of irrigation water to the respective command of the projects. The present ERM proposal has been proposed to restore the irrigation potential in the existing command of the project. The entire Command Area Development (CAD) works of the project is under Bundelkhand Package.

Govt. of M.P clarified that the SOR in the State has not been revised and that the SOR-2009 is applicable as on date. The tender cost of the works of this project is generally 5-10 % less than the estimate. There would be no further revision in the cost estimates of the projects.

The committee accepted the proposal with the condition that no further time and cost overrun would be allowed.

**5.0. URMIL RIGHT BANK CANAL SYSTEM, MADHYA PRADESH (NEW-ERM, Estimated Cost Rs. 45.69 Crore at 2009 Price Level).**

Govt. of M.P indicated that during the passage of time, the irrigation potential of the project has been reduced due to system deficiencies and damage to some of the structures which led to reduced supply of irrigation water to the respective command of the projects. The present ERM proposal has been proposed to restore the irrigation potential in the existing command of the project. Further, the entire Command Area Development (CAD) works of these projects are under Bundelkhand Package.

Govt. of M.P clarified that the SOR in the State has not been revised and that the SOR-2009 is applicable as on date. The tender cost of the works of this project is generally 5-10 % less than the estimate. There would be no further revision in the cost estimates of the projects.

After brief discussion, the committee accepted the proposal with the condition that no further time and cost overrun would be allowed.



**6.0 BEMBLA RIVER PROJECT, MAHARASHTRA (REVISED-MAJOR, Estimated Cost Rs. 2130 crore at 2009 Price Level) :**

State Government had submitted the justification on the incidental saving of water due to lining with no further increase in irrigation. The above note has been examined in CWC and it has been found that the lining of the main canal is necessary in order to ensure assured irrigation water up to the tail end of the command. Saving of 16.84 MCM of water over and above the irrigation requirement is incidental, which cannot be utilized for enhancing the irrigation potential in view of the topography of the area.

Govt. of Maharashtra assured that the proportionate cost of Rs. 36.22 Cr. for 16.84 MCM of saved water due to lining as reserved in the reservoir for Industrial supply would be borne by the industries (proposed Thermal Power Plant). Accordingly, the cost for irrigation components of the project has been worked out to Rs. 2130 Cr. (Rs. 2166.35 Crore – Rs. 36.22 Crore).

The Executive Director, Vidarbha Irrigation Development Corporation, Govt. of Maharashtra stated that in the absence of lining, only 30% of the command area could be irrigated. As such, lining is essential in order to provide irrigation benefits in the whole command of the project. The higher value of cost per hectare of annual irrigation is because the command area of the project falls in hilly terrain which also involves construction of tunnels etc. The cost per hectare of annual irrigation varies from project to project depending on the site conditions / Geological characteristics of the project area.

The impact on B.C ratio of the project after deduction of proportionate cost of Rs. 36.22 Cr, Govt. of Maharashtra stated that consequent upon deduction of Rs. 36.22 Cr from the project cost, the B.C ratio of the project has been marginally improved to 1.26 from 1.24. Ground Water levels due to proposed lining in the command have been examined by CGWB and necessary measures would be taken in the post-project scenario.

The committee accepted the proposal.

**7.0 ANTI EROSION & FLOOD PROTECTION WORK IN TAWANGCHU BASIN IN ARUNACHAL PRADESH (Estimated Cost Rs. 36.47 Crore at 2010 Price Level):**

Govt. of Arunachal Pradesh stated that the State Finance concurrence to the project has been obtained. Further work on the project would start as soon as investment clearance is accorded to this project. The detail break-up of the benefits to be accrued from the project was explained.

The committee accepted the proposal.



**8.0 PROTECTION OF MAJULI ISLAND FROM FLOOD AND EROSION PHASE-II & III, ASSAM (Estimated Cost Rs. 115.03 Crore at 2010 Price Level)**

The proposal was placed before the Advisory Committee for consideration in its 108<sup>th</sup> meeting held on 04.01.2011. The project was not considered as at that time it did not require investment clearance. Later, in view of the decisions taken by the Expenditure Finance Committee (EFC), Brahmaputra Board has again requested to place this proposal for consideration by the Advisory Committee.

Chairman, Brahmaputra Board gave a brief account of the progress of the works and also explained the reasons for slow progress. It was desired that Barahmaputra Board should expedite the works so that this can be completed as per schedule.

The committee accepted the proposal.

**9.0 RESTORATION OF RIVERS DIBANG AND LOHIT TO THEIR ORIGINAL COURSES AT DHOLLA HATIGHULI" (OLD NAME-AVULSION OF BRAHMAPUTRA AT DHOLLA, HATIGHULI-PHASE-IV) (Estimated Cost Rs. 54.43 Crore at 2010 Price Level)**

The proposal was placed before the Advisory Committee for consideration in its 108<sup>th</sup> meeting held on 04.01.2011. But in that meeting, the project was not considered as at that time it did not require investment clearance. Later in view of the decisions taken by the Expenditure Finance Committee (EFC), Brahmaputra Board has again requested to place this proposal for consideration by the Advisory Committee.

Chairman, Brahmaputra Board gave a brief account of the progress of the works and also explained the reasons for slow progress. It was desired that Brahmaputra Board should expedite the works so that this can be completed as per schedule.

The committee accepted the proposal.

**10.0 PROTECTION OF BALAT VILLAGE FROM FLOOD AND EROSION OF RIVER UMNGI IN WEST KHASHI HILL DISTRICT OF MEGHALAYA (Estimated Cost Rs. 5.63 Crore at 2008-09 Price Level) :**

Brahmaputra Board stated that the finance wing of Ministry of Water resources has advised to get cleared all the projects of Brahmaputra Board irrespective of their cost by Advisory Committee before sending the proposal to the Finance Ministry.

After brief discussion, the committee accepted the proposal.



**11.0 PROTECTION OF BISWANATH PANPUR INCLUDING AREAS OF UPSTREAM SILAMARI AND FAR DOWNSTREAM BHUMURAGURI TO BORGAON AGAINST EROSION OF THE RIVER BRAHMAPUTRA (Estimated Cost Rs. 167.09 Crore at 2010-11 Price Level).**

Government of Assam stated that they are in the process of getting State Finance Concurrence. The project authorities stated that the scheme has been approved by State Technical Advisory Committee. The approval of State Flood control Board would be obtained after acceptance of the proposal by the Advisory committee of MoWR. As per Planning Commission guidelines the Flood Scheme costing more than Rs. 30 crore should be duly recommended by State Flood control Board before placing it to the Advisory Committee of MoWR. It was decided that it would be better to place the proposal in the next meeting after obtaining the above clearances.

In view of the above, project was deferred by the committee.

**12.0 FLOOD PROTECTION WORKS FOR RIVER BANKS OF BHADRA RIVER (CH: KM 29.659 – KM 31.932) AT BHADRAVATHI TOWN OF SHIMOGA DISTRICT IN KARNATAKA STATE (Estimated Cost Rs. 86.16 Crore at 2010-11 Price Level) :**

The project authorities intimated that the State Finance concurrence to the project has been obtained.

After the brief discussion the project has been accepted by the Committee.

**III) ANY OTHER ITEM WITH THE PERMISSION OF CHAIR:**

On the request of project authorities and with permission of the Chair, following project proposals were also placed before the Advisory Committee of MoWR for consideration:

**13.0 SHAHNEHAR IRRIGATION PROJECT, HIMACHAL PRADESH (REVISED-MAJOR, Estimated Cost Rs. 387.17 crore at 2009-10 Price Level):**

The committee noted that proposal was originally approved by the Planning Commission in February 1997 for Rs. 143.32 crore and that the Investment clearance to the 1<sup>st</sup> Revised Estimate for Rs. 310.89 crore was accorded in January 2008. There was no change in scope.

Government of Himachal Pradesh submitted that main reason for the delay is non release of funds by the Government of Punjab as per their share in the cost of the



project, delay in according Forest clearance and delay in granting permission by the Railway Authorities for construction of Left Bank Canal. Further, the project would be completed by March 2012.

The committee accepted the project with the condition that no further time and cost overrun would be allowed to the project.

**14.0 ULLAL COASTAL EROSION & INLET IMPROVEMENT PROJECT IN KARNATAKA STATE (Estimated Cost Rs. 170.7 Cr at 2011 Price Level)**

The scheme is located along Arabian Sea in Manglore town of Dakshin Kannada District of Karantaka state. The Coastal Erosion Directorate of CWC at New Delhi and Beach Erosion Directorate of CWC at Kochi has been associated in appraisal of such proposals. It was decided to consider this proposal as pilot project which would be reviewed after post project scenario. The Project authorities intimated that the schemes are being implemented as Pilot projects under National Coastal Protection Project of Government of India with technical and financial assistance of Asian Development Bank.

The committee accepted the proposal.

**15.0 MIRYA BAY COASTAL EROSION AND PROTECTION PROJECT IN MAHARASHTRA STATE (Estimated Cost Rs. 62.51 Cr at 2011 Price Level):**

The scheme is located along Arabian sea of Ratnagiri district of Maharashtra state and is proposed to be funded by Asian Development Bank. It was decided that this be taken up as pilot project under National Coastal Protection Project of Government of India and be reviewed in the post project scenario.

The committee accepted the proposal.

Meeting ended with vote of thanks to the chair.

**LIST OF PARTICIPANTS**

**Members of the Committee:**

S/ Shri		
1.	D. V. Singh, Secretary (WR), Ministry of Water Resources	In the Chair
2.	A.K. Bajaj, Chairman, CWC, New Delhi	Member
3.	Dr. P. S. Minhas, ADG (S&WM)), ICAR, New Delhi (Representing Director-General, ICAR)	Member
4.	Virendra Singh, Addl. Commissioner (Representing Ministry of Agriculture)	Member
5.	Tanmoy Das, Chief Engineer, CEA (Representing Chairman, Central Electricity Authority)	Member
6.	G. Sudarshan, Suptd Hydro-Geologist (Representing Chairman, CGWB)	Member
7.	Avinash Mishra, Joint Advisor (WR), Planning Commission, New Delhi	Member
8.	S. K. Srivastava, Chief Engineer, PAO, CWC, New Delhi	Member- Secretary

**Special Invitees:**

**a) Central Water Commission**

S/ Shri

9. M. E. Haque, Member (WP&P), CWC, New Delhi.
10. R. C. Jha, Member (RM), CWC, New Delhi
11. S. P. Kakran, Member (D&R), CWC, New Delhi.
12. V.K. Chawla, Chief Engineer (IMO), CWC, New Delhi
13. K. N. Keshri, Chief Engineer (FM), CWC, New Delhi
14. Ajay Kumar, Director, PA(N), CWC, New Delhi
15. G. Thakur, Director, Cost App (Irr), CWC, New Delhi
16. R. K. Kanodia, Director, PA(S), CWC, New Delhi
17. M. S. Sahare, Director, PA(C), CWC, New Delhi
18. G. S. Tyagi, Director (UT&SS), CWC, New Delhi
19. C. P. Singh, Director (FM-II), CWC, New Delhi

**b) Ministry of Water Resources**

S/ Shri

20. Devendra Sharma, Commissioner (Ganga), MoWR, New Delhi
21. Pradeep Kumar, Commissioner (PR), MoWR, New Delhi



22. Anuj Kanwal, Sr. Jt. Commissioner (B&B), MoWR, New Delhi  
23. L. K. Taneja, Sr. Jt. Commissioner (Ganga), MoWR, New Delhi

**c) Bramhaputra Board**

24. Shankar Mahto, Chairman, Bramhaputra Board, Guwahati  
25. D. Bargihain, Chief Engineer, Bramhaputra Board, Guwahati

**d) Ministry of Finance**

S/ Shri

26. Shri B. Bandopadhyaya, Joint Advisor (Cost), Ministry of Finance

**e) State Government officers**

**Arunachal Pradesh**

S/ Shri

27. Hari Krishna Paliwal, Principal Secretary (WR), Arunachal Pradesh  
28. Likar Angu, CE, WRD, Itanagar

**Assam**

S/ Shri

29. R. C. Sharma, Secretary (WR), Assam Secretariat, Dispur

**Haryana**

S/ Shri.

30. K. K. Jalan, Financial Commissioner & Principal Secretary, Irrigation Department, Chandigarh  
31. Vijay Jain, Chief Engineer, Irrigation Department, Delhi  
32. Dr. S. S. kadian, SE (Projects), Irrigation Department, Panchkula

**Himachal Pradesh**

S/ Shri.

33. M. S. Kanwar, Chief Engineer, I&PH, Dharmshala  
34. R. K. Jarhyan, Superintending Engineer, I&PH, Kangra  
35. K. C. Rana, EE, Shahnehar Project, Kangra

**Karnataka**

S/ Shri

36. D. Satyamurthy, Principal Secretary, WRD, Govt. of Karnataka  
37. N. L. Peshve, Managing Director, KNNL, Bangalore  
38. B. Guruprasad, CE, Minor Irrigation south, Bangalore  
39. A. N. Janvekar, CE, KNNL, Irrigation (N), Belgaum  
40. Ashok Vasanad, SE, KNNL, GRBC Circle, Hidkal  
41. Cap. R. Mohan, Director (Port & IWT), Karawan  
42. K. S. Jambale, Port Engineer,

**Madhya Pradesh**

S/ Shri

43. R. S. Julania, Principal secretary, WRD, Bhopal
44. K. K. Khare, SE, Rajghat Canal Circle, Datia
45. Abhay Jain, EE, WRD, Nowgong

**Maharashtra**

S/ Shri

46. C. S. Modak, Secretary (CAD), Mantralaya, Mumbai
47. P. C. Zapake, Executive Director, VIDC, Nagpur
48. R. B. Shukla, Chief Engineer, Amravati Region, Amravati
49. S. D. Salunke, SE, Yavatmal Irrigation Circle, Yavatmal
50. S. K. Dhoble, EE, Bembla Project, Yavatmal
51. Sudhir N. Deore, Dy. Engineer, Maharashtra Maritime Board, Mumbai
52. Manish Metkar, Dy. Engineer, Maharashtra Maritime Board, Mumbai