

No. 16/27/2013-PA (N)/ 1901-27

GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION

510(S), SEWA BHAWAN,
R. K. PURAM,
NEW DELHI-110 066
Date: 09.09.2013

Sub: 119th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 29.08.2013.

Enclosed please find herewith a copy of the summary record of discussions of the above meeting held on 29th August 2013 in the Conference Room of Ministry of Water Resources, Shram Shakti Bhawan, New Delhi for information and necessary action.

Encl: As above

Vinay Kumar 09.09.2013
(Vinay Kumar)
Chief Engineer (PA)
& Member Secretary of the
Advisory Committee

To

Members of Committee:

1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
2. Secretary (Expenditure), Ministry of Finance, (1st Floor) North Block, New Delhi.
3. Secretary, Department of Power, S.S. Bhawan, IInd Floor, New Delhi.
4. Secretary, Ministry of Environment & Forests, 4th 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 (D&R), CWC, New Delhi.
14. Member (RM), CWC, New Delhi.
15. Commissioner (Projects), Room No-411, S.S.Bhawan, MoWR, New Delhi.
16. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, Lok Nayak Bhawan, New Delhi.
17. Principal Secretary, Irrigation Department, Government of Punjab, Secretariat, Chandigarh-160009.
18. Secretary, Department of Irrigation & Flood Control, Government of Assam, Secretariat, Guwahati-781006.
19. Principal Secretary, Irrigation & F.C. Department, Government of Manipur, Manipur Secretariat, Imphal-795 001.
20. Principal Secretary, Water Resources Department, Government of Odisha, Rajiv Bhawan, Bhubaneswar-751001.
21. Principal Secretary, Water Resources Department, Government of Rajasthan, Secretariat, Jaipur.
22. Principal Secretary, Water Resources, Government of Madhya Pradesh, Sachivalaya, Arera Hills, Bhopal.
23. CE, FMO, CWC, New Delhi.
24. CE, B&BBO, CWC, Shillong.
25. CE, M&ERO, CWC, Bhubaneswar.
26. CE, NBO, CWC, Bhopal.

Copy for information to:

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

**Summary Record of Discussions of the 119th Meeting of the Advisory Committee on
Irrigation, Flood Control and Multi - purpose Projects held on Thursday, August 29, 2013 for
Consideration of Techno-economic Viability of Water Resources Projects**

The 119th meeting of the Advisory Committee on Irrigation, Flood Control and Multi-purpose Projects of Ministry of Water Resources was held under the Chairmanship of Shri Alok Rawat, Secretary to the Government of India, Ministry of Water Resources on Thursday, August 29, 2013 at 03:30 P.M. in the Conference Room of Ministry of Water Resources, Shram Shakti Bhawan, New Delhi. Names of members of the Committee or their representatives / nominees and special invitees who attended the meeting and their Ministries / Organizations / Departments of State Governments are placed at **Annex-I**.

Chairman of the Advisory Committee welcomed the members of the Committee / invitees and asked Member -Secretary, Advisory Committee to take up the agenda. Member Secretary indicated that one scheme of flood management formulated by Governments of Punjab and seven proposals of multi-purpose / irrigation projects of Assam, Manipur, Madhya Pradesh, Odisha and Rajasthan would be placed before the Committee for consideration in today's meeting.

Thereafter, the agenda items were discussed and the following decisions were taken.

I. Confirmation of the Summary Record of Discussions held during 118th Meeting of the Advisory Committee.

The Summary Record of Discussions of the 118th meeting of the Advisory Committee of Ministry of Water Resources on Irrigation, Flood Control and Multi-purpose Projects as circulated vide letter No. 16/27/2013-PA (N)/1657-1680 dated 12.08.2013 was confirmed.

II. Project Proposals Considered by the Advisory Committee

Members and Special Invitees of the Advisory Committee discussed in detail the project proposals. Summary of discussions and decisions taken were as follows.

Punjab

- a) Consolidated Project Proposal for Flood Protection Works to be executed along Indo-Pak Border on River Ravi & its tributary Ujh to check land erosion for the safety of village Abadies, border fencing and other defense installations in districts Gurdaspur and Amritsar (**Flood Control, Estimated Cost: Rs.161.05 Crore, Price Level: December 2011**)

The project proposal envisages construction of new spurs and studs, new revetment, restoration of flood embankments, spurs and studs etc. These measures are needed to tackle the problem of bank erosion resulting in to damage to culturable land, village abadies, border out posts, flood lighting, flood protection embankments. Further, Pakistan has constructed / strengthened some flood protection works opposite Chaharpur and Sherpur complexes which have diverted the river Ravi towards Indian

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Territory. The problem is further aggravated due to natural topography which is sloping towards Indian side resulting in to deposition of silt on Pakistan side and erosion on Indian side.

During discussion about the project, Advisor (Cost), Ministry of Finance spoke about computation of benefits and increase in cost of the project during appraisal. It was clarified by the Member Secretary that benefits of the project had been computed on the basis of damage caused by erosion of land. Increase in cost of the project was due to inclusion of establishment cost as per guidelines of Central Water Commission.

After deliberations, the Committee accepted the proposal at a cost of Rs.161.05 Crore at December 2011 price level.

Assam

b) Dhansiri Irrigation Project (Major – Revised, Irrigation, Estimated Cost Rs.567.05 Crore at 2011 - 12 Price Level):

The project envisaged construction of a barrage across river Dhansiri at Bhairabkunda in Udalgiri district of Assam with a canal system on right bank. 93% of barrage works, 99% of canal works and about 83% of works in the distribution system were reported to have been completed. The revised cost of project is without change in scope.

During discussion on the project, Member Secretary, Advisory Committee indicated that the land acquisition and law & order problem in the project area were main reasons of delay in completion of the project. Representative of Planning Commission observed that the benefit cost ratio of the project was 1.2 and any further escalation in cost would result in to the project becoming techno-economic unviable. The Committee therefore decided to advise the project authorities to resolve issues related to land acquisition and to take all necessary measures regarding law and order problem so that the project would be completed within time schedule i.e. March 2015. Project Authorities' confirmation in this regard is placed at **Annex-II**.

After discussion, the committee accepted the proposal for Rs. 567.05 Crore at 2011-12 price level.

Manipur

c) Extension, Renovation & Modernization of Singda Multi - purpose Project (ERM – Medium, Estimated Cost Rs.34.62 Crore at 2011 Price Level):

The proposal envisaged renovation of facilities of Singda project and thereby restoring annual irrigation to 3000ha from present annual irrigation of 1000ha. Various measures included replacement of butterfly valve, sluice valve, provision of cement concrete drain in disturbed slide prone zone and reconstruction of allied structures in

canals etc. The project authorities have confirmed that the Schedule of Rates 2011 is still valid in the State.

During deliberation on different proposed measures, members expressed concern about lack of maintenance of created facilities. Members however, noted about unique difficulties faced by project authorities due to law and order and linked problem in the State. After deliberation, it was decided that the project authorities would be advised to ensure that the project would be completed within a period of 18 months from the start of construction works within approved cost and the State Government would bear all the maintenance from its own resources. A certificate provided by the Project Authorities is placed at **Annex-III**.

After discussion, the committee accepted the proposal for Rs. 34.62 Crore at 2011 price level.

Odisha

- d) Lift Canal System of Upper Indravati Irrigation Project, Odisha (**Major - New, Estimated Cost Rs.986.71 Crore at 2012 - 13 Price Level**):

The scheme envisaged lifting water at the rate of 30 cubic meter per second water by 32 meter from the existing Hatti Barrage in Kalahandi to provide annual irrigation of 43047 ha in chronically drought prone backward areas of Kalahandi district. The project is scheduled to be completed over a period of six years.

Initiating discussion, Chairman Advisory Committee underlined the need for development in relatively backward areas of the country. Representative of Planning Commission supported the project proposal. Advisor (Cost), Ministry of Finance indicated about different rates being adopted by the project authorities in Lower Indra Project and Ret Irrigation Project. It was clarified by the project authorities that the rates adopted for the projects have been approved by the competent authorities in the State Government. As regards land acquisition for the project, it was clarified by the project authorities that the land acquisition procedure for irrigation projects has been changed by State Government. As per the changed procedure, land acquisition authorities may directly purchase the land from land owners through bilateral agreement.

After discussion, the committee accepted the proposal for Rs. 986.71 Crore at 2012-13 price level.

- e) Lower Indra Irrigation Project, Odisha (**Major - Revised, Estimated Cost Rs.1624.49 Crore at 2012 -13 Price Level**):

Lower Indra Irrigation project envisages creation of a reservoir by constructing a dam at village Dargaon in Nuapada (erstwhile Kalahandi) of Odisha across river Indra, a tributary of river Tel in Mahanadi Basin. The project on completion would provide annual irrigation benefit of 38,870 ha in 29900 ha culturable command area in Nuapada and Bolangir districts of Odisha. The cost of project has been revised to 2012-13 price level without any change in scope.

During discussion on project, it emerged that delay was mainly caused by difficulties in acquisition of land. It was indicated by the Member Secretary that the State Government recently made changes in the land acquisition procedure. It was decided that the project authorities would be advised to certify that land acquisition for balance distribution system of Lower Indra Irrigation Project would be completed expeditiously. A certificate furnished by the State Government is placed at **Annex-IV**.

After deliberation, the Committee accepted the project proposal for Rs.1624.49 Crore at 2012 -13 Price Level.

- f) **Ret Medium Irrigation Project, Odisha (Medium – Revised, Estimated Cost Rs.433.39 Crore at 2012 Price Level):**

The project envisages creation of reservoir by constructing an earth fill dam across river Ret which is a tributary of river Tel in Mahanadi basin. Two main canals taking off from the right and left side of dam will irrigate annually an area of 9,775 ha in culturable command area of 8500 ha in undivided Kalahandi district of Odisha. The cost of project has been revised to 2012 price level without change in scope.

Project components were discussed by members of the Committee. Advisor (Cost), Ministry of Finance indicated that the rates adopted for agricultural benefits in Ret Irrigation Project were different from those of Lower Indra and Upper Indravati Project. It was clarified by the project authorities that the terrain and the soil characteristics were different in the command areas and hence agricultural parameters adopted in the project were different from those in Lower Indra and Upper Indravati projects. Members noted that difficult terrain and law order problem in the area caused delay in implementation.

After deliberation, the Committee accepted the revised project proposal for Rs.433.39 Crore at 2012 Price Level.

Rajasthan

- g) **Parwan Irrigation cum Drinking, Water Supply Project, Rajasthan (New – Major, Irrigation, drinking water and industrial water supply, Estimated Cost Rs. 2435.93 Crore at 2011-12 Price Level):**

Parwan project is a multi-purpose project which envisages creation of a reservoir by constructing a 360 meter long and 38 meter high dam across river Parwan at village Akawad in Jhalawar district of Rajasthan, a tributary of river Kalisindh which in turn is a tributary of river Chambal. The project will provide irrigation to 1,31,400 ha area at 76% intensity of irrigation. Besides, provision has been kept for providing water supply for drinking including evaporation, downstream flow and thermal power plants to Private and State Public Sector Undertaking (RRVUNL).

The project was discussed in detail. Advisor (Cost), Ministry of Finance raised issues regarding allocation of cost to irrigation, drinking water and industrial water. Joint Secretary & Financial Advisor, Ministry of Water Resources enquired about procedure adopted for allocation of cost among different uses. After deliberation, the Committee decided that the project authorities would respond to the queries raised by Joint Secretary & Financial Advisor, Ministry of Water Resources and Advisor (Cost), Ministry of Finance and submit their written clarifications to the Project Appraisal Organization, Central Water Commission at the earliest.

In view of above, the Committee decided to defer its decision without any prejudice to the Project.

Madhya Pradesh

h) Mahi Irrigation Project in District Dhar, Madhya Pradesh (Revised – Major, Irrigation and drinking water; Estimated Cost Rs.834.24 Crore at 2009 Price Level):

The project proposal includes construction of two storage dams, namely, Mahi main dam across river Mahi & a subsidiary dam across Ramkheda Nalla - a right bank tributary of Mahi river about 10 km upstream of the Mahi main dam for providing irrigation facilities to a culturable command area of 18,227 ha (annual irrigation 26,430 ha) and industrial and drinking water supply of 51.64 million cubic meter to drought prone areas of Ratlam, Jhabua and Dhar districts of Madhya Pradesh. The original Mahi irrigation project was accorded investment clearance by Planning Commission in January, 1985 for Rs.61.52 Crore (PL-1983-84). The proposal was revised in 2009 and accepted by the Advisory Committee in its 99th meeting held on 04.08.2009 at a cost of Rs.490.13 Crore. Planning Commission accorded investment clearance to the proposal in July, 2010 for Rs.490.39 Crore (Price Level - 2009).

In the present proposal, the Project Authorities have proposed to utilize 43.45 MCM for irrigation, from the allocated water for industrial water supply without altering the drinking water component. Project Authorities have confirmed that alternative arrangements for providing water supply to industry have been made by them (Annex-V). By this diversion, additional culturable command area (CCA) of about 9900ha will be covered under its project. Thus on implementation of the project, the CCA will increase from 18227 ha to 28127 ha. The proposed annual irrigation will also increase from 26,430 ha to 33752 ha benefiting 39 villages of Petalwad and Thandal Tehsils of drought prone areas of Jhabua district. The Project Authorities have confirmed that the rates of SoR 2009 are valid for the current year i.e. 2013.

For extension of the command area, project authority has proposed a new Mahi branch canal of 45 km length and distributaries and minors of about 80 km of total length along with lining of the whole canal system.

Project components were deliberated upon by Members including the representatives of Planning Commission, Joint Secretary & Financial Advisor, Ministry of Water Resources and Ministry of Finance. Advisor (Cost), Ministry of Finance indicated about high yield rates, price of agricultural produces particularly, vegetables and certain apparent inconsistencies in calculation of yields, input cost and benefits. After deliberation, the Committee decided that the project authorities would respond to the queries raised by Joint Secretary & Financial Advisor, Ministry of Water Resources and Advisor (Cost), Ministry of Finance and submit their written clarifications to the Project Appraisal Organization, Central Water Commission at the earliest.

In view of above, the Committee decided to defer decision without any prejudice to the Project.

It was decided to hold next meeting in September 2013.

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

Annex – I

List of Members / their representatives and Invitees who participated in the 119th Meeting of the Advisory Committee on Irrigation, Flood Control and Multi-purpose Projects of Ministry of Water Resources held on August 29, 2013

Shri Alok Rawat, Secretary to the Government of India, Ministry of Water Resources

In Chair

Members, Advisory Committee or their representatives / nominees

S/Shri

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| 1. | Bibhas Kumar, Chairman, Central Water Commission | Member |
| 2. | S. K. Kohli, JS&FA, Ministry of Water Resources | Member |
| 3. | Arun Kumar, Member (SML) (in charge) (Representing Chairman, Central Ground Water Board) | Member |
| 4. | Avinash Mishra, Joint Advisor (WR), Planning Commission (representing Advisor, Planning Commission) | Member |
| 5. | B. V. N. Rao, Assistant Commissioner, Department of Agriculture & Cooperation (nominee of Secretary, DoAC, MoA) | Member |
| 6. | Vinay Kumar, Chief Engineer, Project Appraisal Organization | Member-Secretary |

Special Invitees:

Ministry of Water Resources

7. Pradeep Kumar, Commissioner (SP)

Department of Agriculture & Cooperation, Ministry of Agriculture

8. Dharmendra Gupta, ASCO, RFS III

O/o Chief Advisor (Cost), Ministry of Finance

9. P. K. Aggarwal, Advisor (Cost)
 10. A. K. Shukla, Director (Cost)
 11. A. K. Diwan, Assistant Director (Cost)

Central Ground Water Board

12. S. K. Juneja, Scientist-D

Central Water Commission

13. A. B. Pandya, Member (D&R)
 14. Devendra Sharma, Member(RM)
 15. K. N. Keshri, Chief Engineer (FM)
 16. Anand Shankar Prasad Sinha, Chief Engineer, MERO
 17. C. P. Singh, Director FM-I
 18. Gorakh Thakur, Director, CA (Irrigation)

19. Virendra Sharma , Director, CA (HWF)
20. Ajay Kumar, Director, PA(N)
21. M. S. Sahare, Director PA(C)
22. Basistha Rai , Deputy Director PA (C)
23. J. C. Dwary, Deputy Director PA (C)
24. Sudhir Kumar, Deputy Director, PA (S)
25. A. K. Singh, Deputy Director PA (N)
26. M A Khan, Assistant Director-II, PA (C)
27. Lalit Mohan, Assistant Director-II, PA (N)

Officers from State Governments Assam

1. V. K. Pipersenia, Additional Chief Secretary to the Government
2. P. N. Pathak, Superintending Engineer, Irrigation Department
3. N. Kakati, Deputy Secretary, Irrigation

Madhya Pradesh

4. R. S. Julania, Principal Secretary, Water Resources
5. S. K. Agarwal, Executive Engineer, Mahi Project
6. Ms. Devyani Billore, Resident Engineer
7. P. C. Sankla, Sub- divisional Engineer, Mahi Project

Manipur

8. Dr. Rajesh Kumar, Principal Secretary, Irrigation & Flood Control Department
9. Th. Gopen Meitei, Additional Secretary, Irrigation & Flood Control Department
10. Indramani Singh, Chief Engineer

Odisha

11. S. C. Mahapatra, Principal Secretary, Water Resources Department
12. B. Panda, Engineer-in-Chief, Water Resources Department
13. R. P. Nayak, Chief Engineer, Upper Indravati Irrigation Project
14. T. D. Sahoo, Chief Engineer, LI & LS Project
15. R. N. Swain, Chief Engineer & BM, Ret Irrigation Project
16. M. R. Shukla, Superintending Engineer, V.W.D.W. New Delhi
17. A. K. Mahapatra, Executive Engineer, Ret Irrigation Division
18. B. K. Mohanti, Assistant Director, O/o Engineer -in - Chief, Water Resources
19. H. C. Patel, Assistant Engineer, Lower Indra Irrigation Project

Punjab

20. Balwinder Singh, Special Secretary, Irrigation Department
21. Vinod Chaudhary, Chief Engineer, Irrigation Department

22. S. S. Grewal, Superintending Engineer, Irrigation Department
23. J. S. Sandhu, Executive Engineer
24. Gurvinder, OWD

Rajasthan

25. M. C. Jain, Chief Engineer, Water Resources
26. S. N. Gupta, Superintending Engineer
27. I. K. Jain, Executive Engineer
28. H. K. Somani, Assistant Engineer