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No. 16/27/2013-PA (N)/ 227-51


GOVERNMENT OF INDIA  
CENTRAL WATER COMMISSION  
PROJECT APPRAISAL ORGANIZATION

510(S), SEWA BHAWAN,  
R. K. PURAM,  
NEW DELHI-110 066  
Date: 31.01.2014

Sub: 123<sup>rd</sup> meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 30.01.2014.

Enclosed please find herewith a copy of the summary record of discussions of the above meeting held on Thursday, January 30, 2014 at 03:00 P.M in the Conference Room of Ministry of Water Resources, Shram Shakti Bhawan, New Delhi for information and necessary action.

Encl: As above

  
(R. K. Gupta)  
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, (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. Chairman, GFCC, Patna.
17. Commissioner (Projects), Room No-411, S.S.Bhawan, MoWR, New Delhi.
18. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, Lok Nayak Bhawan, New Delhi.
19. Secretary, Irrigation Department, Govt. of Karnataka, M.S. Building, 6<sup>th</sup> floor Karnataka Government Secretariat, Dr. Ambedkar Veedhi, Bangalore-560 001.
20. Principal Secretary, Irrigation & Flood Control Department, Government of Manipur, Manipur Secretariat, Imphal- 795001
21. Principal Secretary, Water Resources Department, Government of Odisha, Rajiv Bhawan, Bhubaneshwar-751001
22. Secretary Irrigation, Govt. of Uttarakhand, Sachivalaya, Dehradun-248001.
23. CE, PPO, CWC, New Delhi.
24. CE, M&ERO, CWC, Bhubaneshwar.

**Copy for information to:**

25. Sr. PPS to Secretary, Ministry of Water Resources, Room No-407, Shram Shakti Bhawan, New Delhi.
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**Summary Record of Discussions of the 123<sup>rd</sup> Meeting of the Advisory Committee on Irrigation, Flood Control and Multi- Purpose Projects held on Thursday, January 30, 2014 for Consideration of Techno-Economic Viability of Water Resources Projects**

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The 123<sup>rd</sup> meeting of the Advisory Committee on Irrigation, Flood Control and Multi-purpose Projects of Ministry of Water Resources was held under the Chairmanship of Secretary to the Government of India, Ministry of Water Resources on Thursday, January 30, 2014 at 15.00 hrs in the Conference Room of Ministry of Water Resources, Shram Shakti Bhawan, New Delhi. The list of members of the Committee or their representatives / nominees and special invitees who attended the meeting and officers from various Ministries / Organizations and representatives of State Governments is appended at **Annex-I**.

Chairman, Advisory Committee welcomed the members of the Committee. At the outset, the Chairman enquired about the agenda notes of the proposals which were not circulated within the stipulated time as decided in the last meeting of the Advisory Committee could be taken up. After discussion in length it was decided that in future, agenda notes of only those proposals will be considered in the meeting which are circulated within the stipulated time i.e. five days in advance. It was also agreed that all agenda items proposed to be circulated are required to be approved by Chairman of the Committee. For the present meeting all agenda items proposed/ circulated was taken up for discussions.

**(i) Confirmation of the minutes of 122<sup>nd</sup> meeting**

The 122<sup>nd</sup> meeting of the Advisory Committee of MoWR on Irrigation, Flood Control and Multi-purpose Projects was held on 20<sup>th</sup> December 2013. Summary Record of Discussion was circulated vide letter No. 16/27/2013-PA (N)/87-111 dated 20.01.2014. It was informed by the member-secretary that no comments have been received on the minutes. The Summary Record of Discussion of 122<sup>nd</sup> meeting was confirmed. While confirming the minutes of the last meeting, Chairman of the committee proposed that the minutes of the meeting are to be circulated within week's time from the date of the meeting.

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

Following decisions were taken in respect of the two project proposals which were deferred in previous meeting of the Advisory Committee.

- (a) The project for construction of Marginal Bunds in Ramraj Khaddar along right bank of River Ganga in the district of Muzaffarnagar, (Flood Control, Estimated Cost Rs 29.39 Cr. At 2012 price level) was discussed in 118<sup>th</sup> to 122<sup>nd</sup> meeting and was deferred for the want of State Finance Concurrence (SFC). The same has not yet been made available by the Govt. of Uttar Pradesh. It was decided that the proposal may be considered after submission of State Finance Concurrence and till such time, this item was deferred from the agenda.
- (b) Manoharthana Irrigation Project, Rajasthan (Medium, New at an estimated cost of Rs 305.35 Cr at 2013 Price Level) was considered during 122<sup>nd</sup> meeting and the project could not be taken up for discussions as the environmental clearance required as per MOEF notification dated 14.09.2006 was not available. Environmental clearance is yet to be obtained by the project authorities. It was decided that the proposal may be considered only after submission of Environmental Clearance and till such time, this item was deferred from the agenda.

(iii) **Project Proposals Considered by the Advisory Committee**

**A. Irrigation Projects**

**1. Karanja Irrigation Project, Karnataka (Major, Revised at an estimated cost of Rs 635.18 Cr at 2012-13 Price Level)**

Karanja Irrigation project has an earthen dam across river Karanja and canal system to irrigate an area of 29,227 hectare in the drought prone Bidar district of Karnataka including provision of drinking water supply. Investment clearance to the 1<sup>st</sup> revised estimate for Rs. 532.0 Cr. was accorded by the Planning Commission in December, 2009. The present proposal is 2<sup>nd</sup> revised cost estimate with irrigation intensity proposed as 100% in place of earlier intensity of 152.51% due to review of water availability which has been re-estimated as 49.13 MCM annually at 75% dependability. The increase in cost of the project is mainly due to price escalation and additional requirements. The B.C Ratio for the Project has been estimated as 1.36.

During the discussions, the representative of the Government of Karnataka assured that all efforts will be made to complete the project in the schedule time and any cost overrun will be borne by the State Government. Sufficient provision will be made in the State budget towards the maintenance of the created facility.

After deliberations, the Committee accepted the proposal.

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**2. Karnataka Integrated and Sustainable Water Resources Management Investment Program (KISWRMIP), Tranche-1, Karnataka (Medium, ERM at an estimated cost of Rs 118.75 Cr at 2012-13 Price Level)**

The Karnataka Integrated and Sustainable Water Resources Management Investment Program (KISWRMIP) is proposed to be implemented with the assistance of Asian Development Bank (ADB). The program aims to enhance security of water resources through modernisation of existing irrigation projects/schemes, improved water resources management in the selected river basins and other associated infrastructure activities. KISWRMIP is a multi-tranche financing facility (MFF) program and proposed to be executed in a period of seven years from 2014 to 2020 in two Tranches. The present proposal is Tranche-1, which envisages modernization of Gondi irrigation system.

The committee felt that such externally funded projects should be discussed in totality and the DPR of such projects are to be appraised by CWC before such works are taken up. Representatives of the State Government assured to follow the same.

After deliberations, the Committee accepted the proposal.

**3. Thoubal Multipurpose Project, Manipur (Major, Revised at an estimated cost of Rs 1694.27 Cr at 2011 Price Level)**

Thoubal Multipurpose Project envisages construction of an Earthen dam across river Thoubal and a barrage about 17 km downstream of the dam for providing annual irrigation of 35,160 ha in the command area of 23,023 ha in Thoubal and Imphal East districts of Manipur. In addition, the project also provides water supply of 10 MGD for Imphal town and its surroundings including generation of 7.5 MW hydro-power. Investment Clearance to 4<sup>th</sup> Revised Cost Estimate for Rs. 1387.85 Cr. was accorded by Planning Commission September, 2012. The present proposal is 5<sup>th</sup> Revised Cost Estimate with change in scope which includes 16.4 km long water transmission system for supply of 10 MGD drinking water to Water Treatment Plant of Public Health Engineering Department at Chingkhelching near Sanjenbam village and additional irrigation in enroute command of 1,161 ha. B.C Ratio for the irrigation component has been worked out as 1.18.

Representatives of the State Government assured that provision for maintenance of the system will be made in the State budget and all efforts will be made to complete the project in time.

After deliberations, the Committee accepted the proposal.

1801.25 Cr at 2013 Price Level)

Kanupur Irrigation project envisages construction of an earthen dam across river Baitarani with a right bank canal to provide annual irrigation of 47,709 ha in the command of 29,578 ha in Keonjhar district of Odisha. Investment Clearance to the 3<sup>rd</sup> Revised Estimate for Rs. 1061.51 Cr. was accorded by Planning Commission in Dec, 2009. The present proposal is the 4<sup>th</sup> Revised Estimate without any change in original scope of the project planning. The increase in cost of the project is due to price escalation, inadequate provision, additional requirement, change in design and R & R policy amended in 2012. The B.C. Ratio of the Project has been estimated as 1.40.

It was felt that since sufficient investment has gone into the project therefore this project needs to be completed. It was assured by the representative of the State Government that all CAD works will also be taken up simultaneously and all bottlenecks in the implementation of the project will be timely resolved and that sufficient funds will be made available for timely completion. Cost overrun if any will be borne by the State Government.

After deliberations, the Committee accepted the proposal.

**5. Rengali Irrigation Sub Project- Right Bank Canal, Odisha (Major, Revised at an estimated cost of Rs 1962.33 Cr at 2013 Price Level)**

Rengali Right Bank Canal offtakes from the Samal barrage, and is part of Rengali Multipurpose Project. The proposed projects envisages annual irrigation of 1,76,956 ha in the command of 1,04,092 ha benefitting Angul, Dhenkanal, Cuttack and Jajpur districts of Odisha including water supply to the industries. Investment clearance to the 2<sup>nd</sup> Revised Estimates for Rs. 1290.93 Cr. was accorded by the Planning Commission in 2008. The present proposal is 3<sup>rd</sup> Revised Estimate without any change in scope of the approved project planning. The increase in cost of the Project is mainly due to price escalation and additional requirement. The B.C. Ratio for the project has been estimated as 2.27.

It was felt that since sufficient investment has gone into the project therefore this project needs to be completed. It was assured by the representative of the State Government that all CAD works will also be taken up simultaneously and all bottlenecks in the implementation of the project will be timely resolved and that sufficient funds will be made available for timely completion. Cost overrun if any will be borne by the State Government.

After deliberations, the Committee accepted the proposal.

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6. **Subarnarekha Irrigation Project, Odisha (Major, Revised at an estimated cost of Rs 5561.57 Cr at 2013-14 Price Level)**

Subarnarekha Main Canal off takes from Galudih Barrage across Subarnarekha river in Jharkhand. The Canal runs for 56.04 Km in Jharkhand before entering into Odisha where after the canal is proposed for a length of 46.50 Km to provide annual irrigation of 1,87,462 ha in the command of 1,09,627 ha in Mayurbhanj and Balasore districts of Odisha. Investment Clearance to the 2<sup>nd</sup> Revised Estimate for Rs. 4049.93 Cr. was accorded by Planning Commission in February, 2010. The present proposal is 3<sup>rd</sup> revised estimate without change in scope of project planning. The increase in cost of the project is mainly due to price escalation and additional requirement. B.C Ratio for the Project has been estimated as 1.92.

Chairman of the committee cited the benefits from the completion of the project in terms of employment generation and will help in addressing the law and order related issues.

After deliberations, the Committee accepted the proposal.

7. **Chairman of the committee proposed that Planning Commission while finalizing the plan of the respective States should specifically earmark the funds for all such projects including O&M.**

**B. Flood Protection Projects**

8. **Project for Flood Protection Work along River Song and its Tributories from D/S of the Confluence of River Jakhan and River Song upto Ganga river in Doiwala Block of District Dehradun, Uttarakhand (Flood Control Scheme at an estimated cost of Rs 34.26 Cr at 2012-13 Price Level)**

The present proposal envisages construction of R R Stone masonry Wall on both sides of the river Song, Suswa, Bangla Nala, Sewla Nala having total length of 4.5 km to save population of about 4725 and 181.3 ha agricultural land from inundation and erosion in Doiwala Block of Dehradun District of Uttarakhand.

Discussions were held towards the flood losses in the area, and the benefits that will be accrued after the implementation of the project. It was proposed that while estimating the cost per hectare of the saved/ protected land the urban and rural land and nature of land needs to be clearly reflected.

After deliberations, the Committee accepted the proposal.



9. **Project Report for River Jakhan from village Rani Pokhari to Confluence with Song River in Doiwala Block of District Dehradun, Uttarakhand (Flood Control Scheme at an estimated cost of Rs 33.95 Cr at 2012-13 Price Level)**

The present proposal envisages construction of R R Stone masonry Wall on both sides of the river Jakhan having total length of 7.4 km in the reach from Ranipokhri Bridge to its Confluence with Song river to save population of about 4725 and 229.50 ha agricultural land from inundation and erosion in Doiwala Block of Dehradun District of Uttarakhand.

Discussions were held towards the flood losses in the area, and the benefits that will be accrued after the implementation of the project. It was proposed that while estimating the cost per hectare of the saved/ protected land the urban and rural land and nature of land needs to be clearly reflected.

After deliberations, the Committee accepted the proposal.

10. **Flood Protection Work of Bindal River from Cantt. Road to Mothronwala in District Dehradun, Uttarakhand (Flood Control Scheme at an estimated cost of Rs 46.12 Cr at 2012-13 Price Level)**

The present proposal envisages construction of R R Stone masonry Wall on both sides of the river Bindal having total length of 13.538 km to save population of about 25,000 and 57.55 ha land from erosion in Colonies, namely Vijay Colony, Bakralwala, Niranjanpur, Brahmawala, Bharuwala Dehradun District of Uttarakhand.

Discussions were held towards the flood losses in the area, and the benefits that will be accrued after the implementation of the project. It was proposed that while estimating the cost per hectare of the saved/ protected land the urban and rural land and nature of land needs to be clearly reflected.

After deliberations, the Committee accepted the proposal.

11. **Project for Flood Protection Work along Suswa River in Doiwala Block of District Dehradun, Uttarakhand (Flood Control Scheme at an estimated cost of Rs 98.00 Cr at 2012-13 Price Level)**

The present proposal envisages construction of R R Stone masonry Wall on both sides of the river having total length of 26.61 Km to save population of about 40,000 and 1865 ha agricultural land from inundation and erosion in Doiwala Block of Dehradun District of Uttarakhand.

Discussions were held towards the flood losses in the area, and the benefits that will be accrued after the implementation of the project. It was proposed that while estimating the cost per hectare of the saved/ protected land the urban and rural land and nature of land needs to be clearly reflected.

After deliberations, the Committee accepted the proposal.

**12. Flood Protection Scheme to Protect Villages, Canals and Roads from River Koshi in Betlaghat Block, District Nainital, Uttarakhand (Flood Control Scheme at an estimated cost of Rs 31.21 Cr at 2011-12 Price Level)**

The present proposal envisages construction of Studs, Buttress Walls, Plugs and Retaining wall at various locations in a reach of about 21 Km of river Koshi depending on site requirement to save population of about 10,000 and 500 ha agricultural land from erosion and inundation in Betalghat Tehsil of Nainital District of Uttarakhand.

Discussions were held towards the flood losses in the area, and the benefits that will be accrued after the implementation of the project. It was proposed that while estimating the cost per hectare of the saved/ protected land the urban and rural land and nature of land needs to be clearly reflected. It was also agreed upon by the representative of the State Government that the works will be completed within the cost estimates irrespective of the price level of 2011-12.

After deliberations, the Committee accepted the proposal.

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

## **Officers from State Governments:**

### **Karnataka**

#### **S/Shri**

1. GurupadaSwamy B.G., Secretary, Deptt. Of Water Resources
2. D. SatyaMurty, Principal Secretary, Deptt. Of Water Resources
3. R. Rudraih, M.D., K.N.W.L., Deptt. Of Water Resources
4. B. Devaraja, Chief Engineer, Deptt. Of Water Resources, Irrigation Project Zone, KNNL
5. Anil Kumar, Dy. Secretary (MMI), Deptt. Of Water Resources
6. Murlidharan V., Technical Assistant, Deptt. Of Water Resources, Irrigation Project Zone, KNNL
7. D.V. Patil, Assistant Engineer, Deptt. Of Water Resources, KNNL

### **Manipur**

1. Dr. Rajesh Kumar, Principal Secretary (IFCD)
2. Th. Indramani Singh, Chief Engineer(IFCD)
3. Kh. Asok Kumar Singh, Addl. Chief Engineer(IFCD)

### **Odisha**

1. S.C. Mahapatra, Principal Secretary, Deptt, of Water Resources
2. A.K. Podar, Chief Engineer, Deptt, of Water Resources
3. S.K. Tripathy, Chief Engineer, Deptt, of Water Resources
4. K.R. Acharya, Chief Engineer, Deptt, of Water Resources
5. Fakir Mohammad, Superintending Engineer, Deptt, of Water Resources
6. Madan Mohan Sethy, Liaison Officer, Deptt, of Water Resources
7. Pankaj Kumar Mishra, Assistant Engineer, Deptt, of Water Resources

### **Uttarakhand**

1. D.C. Singh, Chief Engineer, Irrigation Department
2. D.K. Pachauri, Superintending Engineer, Irrigation Department
3. S.K. Pathak, Executive Engineer, Deptt, Irrigation Department
4. A.S. Bisht, Assistant Engineer, Deptt, Irrigation Department
5. Manoj Bisht, Addl. Engineer, Irrigation Department

**List of Members / their representatives and Invitees who participated in the 123<sup>rd</sup> Meeting of the Advisory Committee of Ministry of Water Resources on Irrigation, Flood Control and Multi-purpose Projects held on January 30, 2014**

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

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

- |    |   |                     |
|----|---|---------------------|
| 1. | A.B. Pandya, Chairman, Central Water Commission   | Member              |
| 2. | Arun Kumar, Member, (SML) Central Ground Water Board<br>(Representing Chairman, Central Ground Water Board)                         | Member              |
| 3. | Avinash Mishra, Joint Advisor (WR), Planning Commission   | Member              |
| 4. | S. K. Kohli, JS&FA, Ministry of Water Resources   | Member              |
| 5. | Jaideep Singh Bawa, Director ( Representing Chairman<br>Central Electricity Authority)  | Member              |
| 6. | Dharmendra Gupta, Asstt. Commissioner (Representing<br>Secretary, Deptt. of Agriculture & Cooperation)                              | Member              |
| 7. | Abdul Islam, Principal Scientist, NRM Division, ICAR<br>(Representing Director General, Indian Council of<br>Agricultural Research) | Member              |
| 8. | B.B. Burman, Director ( Representing Secretary M/o<br>Environment & Forests)  | Member              |
| 9. | R.K. Gupta, Chief Engineer, Project Appraisal Organization,<br>Central Water Commission   | Member<br>Secretary |

**MoWR/Central Water Commission**

1. G. Aranganatham, Member (WP&P)
2. K.N. Keshri, Member (RM)
3. Pradeep Kumar, Commissioner (State Projects), Ministry of Water Resources,
4. V. K. Chawla, Chief Engineer (IMO)
5. B.G. Kaushik, Chief Engineer (PPO)
6. A.S.P. Sinha, Chief Engineer (M&ERO )
7. Ajay Kumar, Director, Project Appraisal (North)
8. Pramod Narayan, Director, Project Appraisal (South)
9. G. Rambabu, Director (Ext. Assistance)
10. Vimal Kumar, Dy. Director (Ext. Assistance)
11. Sudhir Kumar, Deputy Director, Project Appraisal (South)
12. A. K. Singh, Deputy Director, Project Appraisal (North)

**Ganga Flood Control Commission**

1. U. K. Sharma, Dy. Director