

No. 16/27/2016-PA (N)/ 3428-62
Government of India
Central Water Commission
Project Appraisal Organization

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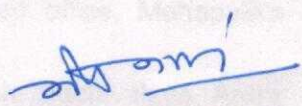
Date: 04 August, 2016

Sub: 129th meeting of the Advisory Committee for consideration of techno-economic viability of Major & Medium Irrigation, Flood Control and Multi-purpose project proposals held on Friday, 08th July, 2016 in New Delhi.

A copy of the Summary Record of Discussions of the subject meeting held on 08th July, 2016 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


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

To

Members of Committee:

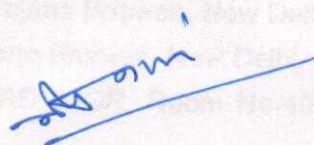
1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
2. Secretary (Expenditure), Ministry of Finance, 1st Floor, North Block, New Delhi.
3. Secretary, Department of Power, Room No. 218(CR), S.S. Bhawan, IInd Floor, New Delhi.
4. Secretary, Ministry of Environment & Forests & CC, 4th Floor, Prithvi Block, Indira Paryavaran, Jor Bagh, New Delhi.
5. Secretary, Department of Agriculture, Cooperation & Farmers Welfare, R.No. 126, Krishi Bhawan, New Delhi.
6. Secretary, Ministry of Tribal Affairs, Room No. 738, A-Wing, Shastri Bhawan, 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. Adviser (Power), NITI Aayog, Room No. 268, Yojana Bhawan, New Delhi.
11. Adviser (WR), NITI Aayog, Room No. 230, Yojana Bhawan, New Delhi.
12. Joint Secretary & Financial Adviser, MoWR, 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. Chairman, GFCC, Sinchai Bhawan, Patna
17. Director General, National Water Development Agency, 18-20, Community Centre, Saket, New Delhi - 110017.
18. Secretary to the Govt. of Assam, Water Resources Department, Dispur, Guwahati - 6.
19. Principal Secretary, Water Resources Department, Government of Bihar, Sinchai Bhawan, Patna-800 015.
20. Principal Secretary, Narmada Water Resources and water supply and Kalpasar Department, Secretariat, Gandhi Nagar - 382010, Gujarat.
21. Additional Chief Secretary, Irrigation & Public Health, Government of Himachal Pradesh, Sachivalaya, Simla-171 002.
22. Principal Secretary, Public Works, Ports & Inland Water Transport Department, Karnataka Government Secretariat, 3rd Floor, Vikasa Soudha, M.S. Building, Dr. Ambedkar Road, Bengaluru - 560001.
23. Principal Secretary, Water Resources Department, Mantralaya, Govt. of Maharashtra, Mumbai - 400032.
24. Municipal Commissioner, Municipal Corporation, Municipal Head office, Mahapalika Marg, Mumbai - 400001.
25. Principal Secretary, Water Resources, Govt of Madhya Pradesh, Sachivalaya, Arera Hills, Bhopal.
26. Principal Secretary, Irrigation & Water Resources Department, Government of Uttar Pradesh, Sachivalaya Annexe, Lucknow-226 001 (U.P.).
27. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
28. Commissioner (State Projects), MoWR, RD & GR, Room No-411, S. S. Bhawan, New Delhi.
29. Commissioner (FM), MoWR, Rd & GR, CGO Complex, 11th Block, 8th Floor, Lodhi Road, New Delhi.
30. Chief Engineer (PPO), CWC, New Delhi.
31. Chief Engineer (FMO), CWC, New Delhi.
32. Chief Engineer (IMO), CWC, New Delhi.
33. Chief Engineer, UGBO, CWC, Lucknow.
34. Chief Engineer, IBO, CWC, Chandigarh.

Copy for information to:

35. Sr. PPS to Secretary, MoWR, RD & GR, 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 129TH MEETING OF THE ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECT PROPOSALS HELD ON FRIDAY, JULY 8TH, 2016 IN NEW DELHI

The 129th 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 Shashi Shekhar, Secretary to the Government of India, MoWR, RD&GR on Friday, 8th July, 2016 at 11:00 Hrs 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 128th meeting of the Advisory Committee

CE (PAO), CWC and Member Secretary informed that the 128th meeting of the Advisory Committee of MoWR, RD&GR on Irrigation, Flood Control and Multi-purpose Projects was held on 29.02.2016. Summary Record of Discussions was circulated vide letter No. 16/27/2015-PA(N)/467-490 dated 10.03.2016. No comment has been received on the Summary Record of Discussion. Hence Advisory Committee confirmed the Summary Record of Discussion of the 128th Meeting, as circulated.

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

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

a. Revised Cost Estimate of Arjun Sahayak Pariyojna (Revised Cost, Major, Estimated Cost Rs. 2593.93 Crore @PL 2015)

Revised Cost Estimate of Arjun Sahayak Pariyojna (Revised Major, Estimated Cost Rs. 2593.93 Crore at PL 2015) was discussed in 127th & 128th meetings and was deferred for want of State Finance Concurrence (SFC). The Project Authority vide letter dated 27.06.2016 submitted the State Finance Concurrence for Rs. 2593.93 Cr. Accordingly, the Advisory Committee accepted the project proposal with the condition that the State Govt. shall restrict the expenditure to the approved cost (i.e Rs. 2593.93 Cr (PL 2015)) and scheme may be completed without incurring any additional expenditure beyond the approved cost and should adhere to the general conditions as given below.



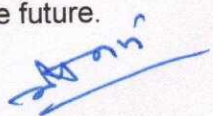
General Conditions:

- (i) Participatory irrigation Management (PIM) shall be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs shall be involved in Operation and Maintenance of canals, Warabandi etc. to ensure equitable distribution of water.
- (ii) Option of pressurized piped network instead of canal network be explored by the Project Authority wherever feasible.
- (iii) The micro irrigation shall be introduced and approximately 50% of command shall be covered under micro irrigation.
- (iv) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
- (v) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (vi) Annual maintenance, de-weeding etc. in the canal/distributaries should be ensured by deploying a dedicated team or through annual contract (Reach wise).
- (vii) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

b. Sulwade Jamphal Kanoli Lift Irrigation Scheme, Maharashtra (New Major, Estimated Cost Rs. 2374.46 Cr. @PL 2014-15)

During the 128th meeting, the Advisory Committee considered and accepted the above project proposal subject to the submission of State Finance Concurrence (SFC) within one week time. Now, Project Authority vide letter dated 05.07.2016 submitted the State Finance Concurrence for Rs. 2374.46 Cr. Accordingly, the Advisory Committee accepted the project proposal with the other general conditions indicated in the minutes of 128th meeting of the Advisory Committee, which are reproduced below.

General Conditions

- (i) Participatory irrigation Management (PIM) may be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed at appropriate stage to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs may be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.
 - (ii) As agreed by State Govt., the micro irrigation shall be introduced in two phases. In first phase within 2 years after project completion, approximately 30% of command will be covered under micro irrigation and in the next two years additional 30% of command will be covered under micro irrigation system. Therefore a total of 60% of command will be covered under micro irrigation.
 - (iii) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
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- (iv) The compliance to environmental aspects shall be carried out as per the terms and conditions stipulated in the clearance issued by MoEF&CC.
- (v) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

Chairman of the Committee emphasized that pressurized pipe network and micro-irrigation should be mandatorily adopted in lift irrigation schemes.

- c. **Scheme for protection of Gaura-Saifabad embankment between Km. 3.000 to 4.400 on left bank of River-Ghaghra in the district - Basti of Uttar Pradesh (Estimated Cost Rs. 33.9885 Cr @ PL 2012)**
- d. **Scheme for construction of 7nos. Spurs at Km. 12.500, 13.200, 14.200, 15.100, 15.750, 16.200 & 16.600 of Kalwari-Rampur Bund on left bank of river Ghaghra in the district-Basti, Uttar Pradesh (Estimated Cost Rs. 29.5997 Cr @ PL 2012)**

The Advisory Committee, in the 128th meeting, had constituted a Committee having representatives from NITI Ayog, CWC and GFCC for site inspection of proposed Flood Control structures to consider the acceptance of the proposals. The committee was mandated to inspect the morphological changes in the river reach of concern bank vis-à-vis content given in the State Govt. proposal, and final acceptance shall be based on recommendation of the Committee. In pursuance, a Team of Officers comprising Chief Engineer (FMO), CWC, New Delhi, Joint Advisor (WR), NITI Aayog, New Delhi and Director(C), GFCC, Patna and officers from State Govt. of UP visited both the sites on 09.03.2016. The Committee submitted the report vide Lr.No.CE(FM)/Misc./2016/56 dated 11.03.2016. Copy of the report is enclosed.

As per the report, the proposal "*Scheme for protection of Gaura-Saifabad embankment between Km. 3.000 to 4.400 on left bank of River-Ghaghra in the district - Basti of Uttar Pradesh (Estimated Cost Rs. 33.9885 Cr @ PL 2012)*" **is found acceptable** and the proposal "*Scheme for construction of 7nos. Spurs at Km. 12.500, 13.200, 14.200, 15.100, 15.750, 16.200 & 16.600 of Kalwari-Rampur Bund on left bank of river Ghaghra in the district-Basti, Uttar Pradesh (Estimated Cost Rs. 29.5997 Cr @ PL 2012)*" **is found acceptable with the suggestion that the length of the proposed spurs if needed may be reviewed as per site conditions at the time of construction.**

Based on the note for Advisory Committee above two Flood Control project proposals are accepted by the Advisory Committee. Earlier, the Project Authorities planned to complete the project by 2016-17. Now, the Project Authorities vide Lr. No. C-156/C.E/Gandak/P-2 dated 15.06.2016 have certified that the above projects will be completed by 2017-18.



(iii) Project Proposals considered by the Advisory Committee

A. Irrigation and Multi-purpose Projects

1. Kosi-Mechi Link Project, Bihar (New Major, Estimated Cost Rs. 4900 Cr. @ PL 2015-16)

CE (PAO), CWC and Member Secretary informed the Committee that proposal envisages diversion of 2050.15 MCM surplus water of Kosi river to Mechi river in Mahananda basin during monsoon period (June to October) for irrigation requirement of new command in Araria, Purnea, Kishanganj and Katihar districts of Bihar. The project contemplates to provide irrigation facilities annually to an area of 2,10,516 ha by way of extending the existing Eastern Kosi Main Canal (EKMC) beyond its tail end at RD 41.30 km upto river Mechi so that rivers Kosi and Mechi which flow through Bihar could be linked together within Bihar. The other main benefit of the scheme is reduced flood impact in the downstream of the Kosi river.

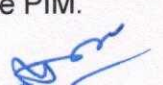
The Chairman of Committee asked the State Govt. representative about water logging problem in the command area as the water level is only around 2 to 5 m below Ground Level. The Principal Secretary, Govt. of Bihar explained that the water level is reducing continuously and there is no such water logging problem in the command area of the eastern canal over several years. He also informed that with this project the flood moderation will provide benefit downstream of Barrage due to diversion of water from Barrage and is very important project for Bihar.

The Member Secretary also stated that the Statutory Clearances such as Environment and Forest Clearance from MoEF&CC and Clearance for the R&R of tribal population from MoTA, as applicable are awaited from the Project Authority.

After deliberation, the Advisory Committee accepted the Project proposal subject to the following:

- (i) Submission of all Statutory Clearances from MoEF&CC.
- (ii) Clearance for the R&R of tribal population from MoTA. If no tribal population is affected by the project proposal, a certificate in this regard from the concerned authority shall be submitted to CWC.
- (iii) Conjunctive use of surface and ground water should be practiced to optimize water use and avoid any chance of future waterlogging.

General Conditions:

- (i) Participatory irrigation Management (PIM) shall be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed at appropriate stage to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs may be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.
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- (ii) Option of pressurized piped network instead of canal network be installed by the Project Authority.
- (iii) The micro irrigation shall be introduced and approximately 50% of command shall be covered under micro irrigation.
- (iv) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
- (v) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (vi) Annual maintenance, de-weeding etc. should be ensured by deploying a dedicated team or through annual contract (Reach wise).
- (vii) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

2. 3rd Revised Cost Estimate (RCE) of Sardar Sarovar Narmada Project, Gujarat (Revised Major, Estimated Cost Rs. 54772.94 Cr. @PL 2014-15)

CE (PAO), CWC and Member Secretary informed the Committee that the Sardar Sarovar Narmada Project, an interstate multipurpose project, is under implementation by Gujarat in accordance with the Order and Decision of Narmada Water Disputes Tribunal (NWDTT). The proposal envisages construction of a concrete gravity dam across Narmada near village Navagam in Gujarat, Narmada Main Canal, 458 km long up to Gujarat – Rajasthan State border, a river bed power house comprising 6 units of 200 MW each, canal head power house comprising 5 units of 50 MW, 4 nos. of natural ponds, 38 branch/sub-branch canals and several distributaries and minors/sub-minors.

The project contemplates to provide irrigation facilities annually to an area of 17.92 Lakh ha in 17 districts of Gujarat along with installed capacity of 1450 MW and domestic and industrial water supply of 1.06 MAF. Almost 75% of the command of the project is drought prone.

2nd Revised Cost Estimate (RCE) for Rs. 39240.45 Cr. (PL 2008-09) was accepted by the 103rd meeting of Advisory Committee on 11.03.2010. Installation of gates in the dam is in progress. Construction of Main Canal, Power houses are completed. Construction of Branch canal, Distributaries, Minors, Sub-minors are in progress. Total Rs. 37127.87 Cr. has been incurred for the project as on March, 2016.

Now, 3rd RCE for Rs. 54772.94 Cr. @ PL 2015-16 has been submitted without change in scope. It has been proposed to complete the project by March, 2020. The Committee deliberated in detail the reasons for variance vis-à-vis 2nd Revised Cost Estimate.

After deliberation, the Advisory Committee accepted the Project proposal.

General Conditions:

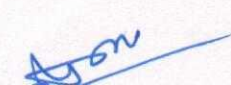
- (i) Participatory irrigation Management (PIM) shall be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed at appropriate stage to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs may be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.
- (ii) Option of pressurized piped network instead of canal network be explored by the Project Authority wherever possible.
- (iii) The micro irrigation shall be introduced and approximately 50% of command shall be covered under micro irrigation.
- (iv) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
- (v) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (vi) Annual maintenance, de-weeding etc. should be ensured by deploying a dedicated team or through annual contract (Reach wise)
- (vii) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

3. Revised Cost Estimate of Nadaun Area Medium Lift Irrigation Project, Himachal Pradesh (Revised Medium, Estimated Cost Rs. 156.31 Cr. @ PL 2015)

CE (PAO), CWC and Member Secretary informed the Committee that proposal is a revised cost estimate for Rs. 156.31 Cr. at PL 2015. Earlier this project was accepted by Advisory Committee in its 115th meeting in year 2012 for estimated cost of Rs. 97.59 Cr @ PL 2011. The proposal envisages to lift the water of Beas river to irrigate the agricultural field situated on the Right and Left bank of Kunah Khad with an annual irrigation of 6471.40 ha. The project benefits hilly area of Hamirpur in Himachal Pradesh. Around 65% of the works have been completed. An expenditure of Rs. 78.20 Cr. has been spent till March, 2016.

After deliberation, the Advisory Committee accepted the Project proposal.

General Conditions:

- (i) Participatory irrigation Management (PIM) shall be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed at appropriate stage to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs may be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.
 - (ii) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
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- (iii) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (iv) Annual maintenance, de-weeding etc. should be ensured by deploying a dedicated team or through annual contract (Reach wise).
- (v) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

4. Damanganga-Pinjal Link Project, Maharashtra (New Drinking Water Supply Scheme, Estimated Cost Rs. 3008.49 Cr. (PL 2015))

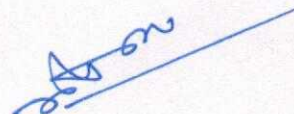
CE (PAO), CWC and Member Secretary informed the Committee that the Damanganga-Pinjal Link Project envisages diversion of surplus water of 895 MCM available in Damanganga and Pinjal river basins to Mumbai City for augmentation of its domestic water supply. It proposes a dam at Bhugad on river Damanganga, a dam at Khargihill on river Vagh, a tributary of Damanganga river. The stored water is planned to be transferred to Pinjal dam on Pinjal river. Finally, the water from Pinjal dam is planned to be made available to Mumbai city. The present proposal pertains to all components except Pinjal dam and conveyance system for drinking water from Pinjal dam to Mumbai City. A Power house at Bhugad dam with installed capacity of 2 MW (2 x 1 MW) and a power house at Khargihill dam with installed capacity 3 MW (2 x 1.5 MW) is also proposed.

When Additional Secretary (WR, RD&GR) enquired about B.C ratio of the scheme, the Member Secretary explained that being Drinking Water Supply Scheme, no economic evaluation is required as per the Guideline.

The Member Secretary also stated that, being Drinking Water Supply Scheme, Environmental Clearance is not required for this project, as communicated by MoEF&CC vide Lr. No. J-12011/56/2008-IA.I dated 03.12.2008. Forest Clearance for diversion of 1673.76 Ha of forest land from MoEF&CC and Clearance for the R&R of tribal population from MoTA, as applicable are awaited from the Project Authority.

After deliberation, the Advisory Committee accepted the Project proposal subject to the following:

- (i) Submission of Forest Clearance from MoEF&CC for diversion of 1673.76 Ha of forest land.
- (ii) Clearance for the R&R of tribal population from MoTA.



General Condition:

- (i) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (ii) Annual maintenance, de-weeding etc. should be ensured by deploying a dedicated team or through annual contract (Reach wise)
- (iii) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

5. Ken-Betwa Link Project (Phase-I), Madhya Pradesh & Uttar Pradesh (New Major, Estimated Cost Rs. 18057.08 Cr. @ PL 2015-16)

CE (PAO), CWC and Member Secretary informed the Committee that the Ken-Betwa Link Project is one of the 16 links under Peninsular Component of National Perspective Plan for water resources development identified by NWDA. The proposal envisages transfer of surplus water from Ken basin to Betwa basin to provide water to water deficient areas of upper Betwa basin by substitution. The project proposal envisages construction of Daudhan Dam across river Ken (tributary of Yamuna), 218.7 Km long link canal from left bank outfalling in Barwasagar of Betwa river, 57 km long Ken left Bank Canal off taking at end of Lower Level tunnel, Two Power houses one at toe of Daudhan dam (60 MW) and the other at the exit of lower level tunnel (18 MW).

The Hon'ble Supreme Court vide its Judgment of 27 February, 2012 has directed the "Special Committee for interlinking of rivers" to take up the Ken-Betwa link project for implementation at the first instance itself.

The Member Secretary also stated that the Statutory Clearances such as Environment, Forest and Wildlife Clearance from MoEF&CC and Clearance for the R&R of tribal population from MoTA are awaited from the Project Authority. International aspect is under process of vetting in MoWR, RD&GR.

After deliberation, the Advisory Committee accepted the Project proposal subject to the following:

- (i) Submission of Environment Clearance from MoEF&CC.
- (ii) Submission of Wildlife Clearance from MoEF&CC.
- (iii) Submission of Forest Clearance from MoEF&CC.
- (iv) Clearance for the R&R of tribal population from MoTA.



General Conditions:

- (i) Participatory irrigation Management (PIM) shall be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed at appropriate stage to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs may be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.
- (ii) Option of pressurized piped network instead of canal network to be installed by the Project Authority.
- (iii) The micro irrigation shall be introduced and approximately 50% of command shall be covered under micro irrigation.
- (iv) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
- (v) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (vi) Annual maintenance, de-weeding etc. should be ensured by deploying a dedicated team or through annual contract (Reach wise).
- (vii) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

6. Bhaunrat Dam Project, Uttar Pradesh (New Medium, Estimated Cost Rs. 612.78 Cr. @ PL 2015-16)

CE (PAO), CWC and Member Secretary informed the Committee that the proposal envisages construction of a dam on river Jamni near Bhaira village in Lalitpur district of UP. The project contemplates to provide irrigation facilities annually to an area of 16,000 ha in drought prone areas of Lalitpur district in Bundelkhand region. A provision of 1.0 MCM of water has been kept for drinking water requirement of villages of Mahrouni Tehsil.

The Member Secretary also stated that the Forest Clearance for diversion of 201 Ha of forest land from MoEF&CC is awaited from the Project Authority. As per State Level Environment Impact Assessment Authority (SEIAA), the forest land is in the active stage of acquisition. State Finance Concurrence for the proposal has been submitted for Rs. 599.72 Cr.

After deliberation, the Advisory Committee accepted the Project proposal subject to the following:

- (i) Submission of State Finance Concurrence for full amount of Rs. 612.78 Cr. The State has already submitted SFC for Rs. 599.72 Cr.
- (ii) Submission of Forest Clearance from MoEF&CC for diversion of 201 Ha of forest land.



General Conditions:

- (i) Participatory irrigation Management (PIM) shall be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed at appropriate stage to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs may be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.
- (ii) Option of pressurized piped network instead of canal network to be installed by the Project Authority wherever feasible.
- (iii) The micro irrigation shall be introduced and approximately 50% of command shall be covered under micro irrigation.
- (iv) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
- (v) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (vi) Annual maintenance, de-weeding etc. should be ensured by deploying a dedicated team or through annual contract (Reach wise)
- (vii) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

7. Project for Providing Irrigation Facilities to 15 Villages of Babina Block, Uttar Pradesh (New Medium, Estimated Cost Rs. 246.8433 Cr. @ PL 2015-16)

CE (PAO), CWC and Member Secretary informed the Committee that the proposal envisages construction of a pump house upstream of Dhukuwan weir on the river Betwa, in which 3 no. of pumps of 50 cusecs each will be established. The project contemplates to provide irrigation facilities annually to an area of 4400 ha in drought prone areas of 15 villages of Babina Block of Jhansi district in Bundelkhand region.

The Member Secretary also stated that the Stage-II Forest Clearance for diversion of 3.98 Ha of forest land from MoEF&CC is awaited from the Project Authority. As per State Level Environment Impact Assessment Authority (SEIAA), the forest land is in the active stage of acquisition. State Finance Concurrence for the proposal has been submitted for Rs. 236.0377Cr.

After deliberation, the Advisory Committee accepted the Project proposal subject to the following:

- (i) Submission of State Finance Concurrence for full amount of Rs. 246.8433 Cr. The State has already submitted SFC for Rs. 236.0377 Cr.
- (ii) Submission of Stage-II Forest Clearance from MoEF&CC for diversion of 3.98 Ha of forest land.



General Conditions:

- (i) Participatory irrigation Management (PIM) may be encouraged by State Govt. and Water Users Associations (WUAs) shall be formed at appropriate stage to ensure awareness and participation of farmers in order to achieve the specific objectives. Later on, once project is completed WUAs may be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.
- (ii) Option of pressurized piped network instead of canal network may be explored by the Project Authority wherever feasible.
- (iii) The micro irrigation shall be introduced and approximately 50% of command shall be covered under micro irrigation.
- (iv) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.
- (v) Minimum environmental flow in the downstream of the river may be ensured as per the prevailing law / as per the terms and conditions stipulated by MoEF&CC.
- (vi) Annual maintenance, de-weeding etc. should be ensured by deploying a dedicated team or through annual contract (Reach wise).
- (vii) Acceptance of project proposal by Advisory Committee of MoWR, RD&GR does not guarantee any eligibility towards release of fund under any existing scheme of MoWR, RD&GR such as AIBP, PMKSY, RRR, FMP etc.

B. Flood Control Projects

During the meeting, Chairman of the Committee suggested that in respect of flood protection scheme, site visit to area intended to be protected must be done and while recommending any particular type of bank protection works, it should be ensured that alternate options of bank protection have been examined and the recommended option is best suited as per the prevailing site conditions.


Chairman of the Committee also desired that in future for all flood protection schemes which are under appraisal, a detailed presentation giving details of the scheme alongwith site photographs, shall be made to Secretary (WR, RD&GR), before the same are put up to the Advisory Committee.

Thereafter these flood projects were discussed one by one

1. **Protection of Villages Durgapur, Domgaon, Dababeel, Chotonilibari, Debargaon, Dangaigaon, Bhirengaon, Bherbheri, Rowmari, Khagrabari, Sanyashiguri, Uttar-Popragaon and Popragaon from the erosion of River Aie (R/B), Assam (Estimated Cost Rs. 125.21 Cr @ PL 2014-15)**

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 6200 ha and approximately 1,00,000 people on the right bank of river Aie in Chirang district at an estimated cost of Rs.125.21 Cr.

The Joint Secretary & Financial Advisor asked the representative of the State Govt. why State Finance Concurrence (SFC) has been submitted for Rs. 600 Cr. when the estimated cost of the scheme is only Rs. 125.21 Cr. The State Govt. representative explained that the SFC is only for Rs. 600 Lakh.



After deliberation, the Advisory Committee accepted the Project proposal subject to submission of State Finance Concurrence for Rs. 125.21 Cr.

2. Assam Integrated Flood and River Bank Erosion Risk Management Project – Tranche-II (AIFRERMP), Assam (Estimated Cost Rs. 53.8195 Cr. @ PL 2014-15)

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 39600 ha and approximately 3,00,000 people from the river Brahmaputra in Dibrugarh district at an estimated cost of Rs.53.8195 Cr. The AIFRERMIP project is planned to be implemented in two distinct development phases i.e Tranche-I and Tranche-II. Tranche-I is being implemented since 2012 and is nearing completion.

The Member Secretary also stated that the State Finance Concurrence for the scheme has been received, however no amount has been mentioned.

After deliberation, the Advisory Committee accepted the Project proposal subject to submission of State Finance Concurrence for Rs. 53.8195 Cr.

3. Rato River Flood Management Scheme, Bihar (Estimated Cost Rs. 109.84 Cr. @ PL 2014)

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 6000 ha and approximately 50,000 people on the left and right bank of river Rato in Sitmarhi district at an estimated cost of Rs.109.84 Cr.

After deliberation, the Advisory Committee accepted the Project proposal.

4. Protection work for village Patter Tola to Kamala Kani near U/S Spur No. 12, Bihar (Estimated Cost Rs. 57.952 Cr. @ 2015)

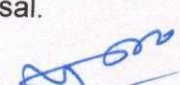
CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 52,000 ha and approximately 50,000 people on the left bank of river Ganga in Katihar district at an estimated cost of Rs.57.952 Cr.

After deliberation, the Advisory Committee accepted the Project proposal.

5. Anti Erosion work from Hardeotola to Khatti, Bihar (Estimated Cost Rs. 65.67 Cr. @ PL 2015)

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 109.10 ha and approximately 80,000 people by anti-erosion work from Hardeotola to Khatti on river Ganga in Katihar district at an estimated cost of Rs 65.67 Cr.

After deliberation, the Advisory Committee accepted the Project proposal.



6. **Construction of Earthen Bundh from Ahraulidan (U.P) Bundh to Guide Bundh of Bettiah-Gopalganj Bridge under Flood Control Division, Thakara Camp, Distt.-Gopalganj, Bihar (Estimated Cost Rs. 53.8587 Cr. @ PL 2015)**

CE (PAO), CWC and Member Secretary informed that the scheme is proposed to protect an area of 2100 ha and approximately 50,000 people on the left bank of river Gandak in Gopalganj district at an estimated cost of Rs.53.8587 Cr.

After deliberation, the Advisory Committee accepted the Project proposal.

During deliberation it was decided that the following General condition shall be applicable for all flood protection scheme:

While implementing flood protection and anti-erosion works, states shall award study to agencies carrying out physical model studies of the river system to find out any possible impact both upstream and downstream of flood protection works.

C. **Coastal Protection Project**

1. **Sustainable Coastal Protection and Management Investment Programme (SCPMIP), Tranche – II, Karnataka (Estimated Cost Rs. 374.09 Cr.)**

CE (PAO), CWC and Member Secretary informed that Sustainable Coastal Protection and Management Investment Programme (SCPMIP) in Karnataka is to be implemented in three phases/trenches with its closure by 2019. Implementation of the Tranche – I got under way in Karnataka in 2012 and scheduled to be closed by 2017. The project proposal under Tranche – II includes 6 subprojects at project sites Someshwara, Yermal Thenka, Udyavara, Kodi Bengre, Maravanthe and Murudeshwara and 2 community protection subprojects at project sites Kodi Kanya and Pavinakurve. The districts benefitted are Uttar Kannada, Udupi, Dakshina Kannada.

After deliberation, the Advisory Committee accepted the Project proposal.

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



129th MEETING OF THE ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECT PROPOSALS HELD ON FRIDAY, 8TH JULY, 2016 IN NEW DELHI.

LIST OF PARTICIPANTS

Shri Shashi Shekhar , Secretary, MoWR,RD&GR

Chairman

Members, Advisory Committee or their representatives / nominees

S/Shri

- | | | |
|----|--|---------------------|
| 1. | G.S.Jha, Chairman, CWC | Member |
| 2. | Dr. E.Sampath Kumar, Member, Central Ground Water Board
(Representing Chairman, Central Ground Water Board. | Member |
| 3. | A.Muralidharan, Dy. Advisor (Representing Advisor, NITI Aayog) | Member |
| 4. | Jagmohan Gupta, Joint Secretary & Financial Advisor,
MoWR,RD&GR. | Member |
| 5. | Pradeep Kumar, Chief Engineer, Project Appraisal
Organization, Central Water Commission | Member
Secretary |

MoWR, RD & GR

S/Shri

1. U.P.Singh, Additional Secretary, MoWR,RD&GR

Central Water Commission

S/Shri

1. Narendra Kumar, Member (RM)
2. N.K.Mathur, CE (PPO)
3. C.P.Singh, CE (FMO)
4. Navin Kumar, CE (IMO)
5. S.L.Sibal, CE, UGBO
6. B.P.Pandey, Director, ISM
7. Pramod Narayan, Director, Project Appraisal (South)
8. G.L.Bansal, Director, IP(S)
9. Sharad Chandra, Director, Coastal Erosion
10. Piyush Kumar, Director, FMP
11. A.K.Singh, Deputy Director, Project Appraisal (North)
12. Sanjay Kumar, Dy.Director, NP-II
13. M.S.Saravana Kumar, Deputy Director, Project Appraisal (North)
14. Sharad Kumar Kaushal, AD, Project Appraisal (North)
15. Durgender Singh, AD-II, Project Appraisal (North)

Ganga Flood Control Commission
S/Shri

1. G.Thakur, Member (C)
2. Anil Jain, Director,
3. S.P Singh, Director
4. Vivek Pal, Director
5. Sanjeev Kumar, Dy. Director

National Water Development Agency
S/Shri

1. R.K.Jain, CE
2. M.K.Srinivas, CE
3. D.K.Sharma, SE
4. O.P Singh Khushwah, SE
5. Muzaffar Ahmed, SE
6. K.P.Gupta, SE
7. R.K. Sharma, Dy.Director
8. M.P. Krishna Murthy, AE

Officers from State Governments:

Assam

S/Shri

1. Borsing Rongfi, Addl. Chief Engineer, WRD, Assam
2. Deep Pegu, Dy. Director, WRD, Assam
3. B.N Thakuria, Executive Officer, FREMAA
4. Ajay Kumar Basumatary, EE, WRD

Bihar

S/Shri

1. Arun K Singh, Principal Secretary
2. Rajesh Kumar, Engineer-in-Chief, WRD
3. Shailesh Kumar, AE, WRD
4. Rama Shankar Prasad AE, WRD
5. Ajay Kumar Singh AE, WRD

Gujarat

S/Shri

1. S.S.Rathore, CMD, SSNNL

Himachal paredesh

S/Shri

1. Anil K. Bahri, E-in-C, IPH Department
2. Sumasn Vikrant, CE, IPH Department
3. J.S.Sodhi, S.E, IPH Department
4. Ravinder Kumar, JE, IPH Department

Karnataka

S/Shri

1. Ramesh.N.S, Addl. Secretary, PWD
2. Dr.Ashwin Kotta, TL, DTL, PMPCK
3. P.Channappa Naik, Project Director, PMU, SCPMIP

Maharastra

S/Shri

1. Ahirrao Aika SE, Dhule Irrigation project.
2. D.P Agrawal, Executive Engineer, Minor Irrigation Division Dhule.
3. S.H Hande, Executive Engineer, MCGM
4. R.B.Bambole, Dy. Municipal Commissioner

Uttar Pradesh

S/Shri

1. C.K. Verma, Engineer-in-Chief, HOD, UPID
2. C.D.Ram, Engineer-In-Chief, D&P, UPID
3. R.P.Yadav, CE, Gandak, UPID
4. V.K Gupta, CE(S), UPID
5. Navneet Kumar, CE (B) , UPID
6. K.K Agrawal, EE, UPID.