No. 16/27/2017-PA (N)/
Government of India
Central Water Commission
Project Appraisal Organization

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Date: 23.03.2018

Sub: Summary Record of discussion of 135th meeting of the Advisory Committee on Irrigation, Flood Control & Multipurpose Projects.. Reg.

A copy of Summary Record of discussions of 135th meeting of the Advisory Committee on Irrigation, Flood Control & Multipurpose Projects held on 12.03.2018 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 (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, 1st Floor, North Block, New Delhi.
3. Secretary, Department of Power, Room No. 205, 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. 248, 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, Patna.
17. Principal secretary, WRD, Govt. of Arunachal Pradesh
18. Principal secretary, WRD, Sinchai Bhawan, Govt. of Bihar
19. Principal secretary, WRD, Nepal House, Doranda, Ranchi, Govt. of Jharkhand
20. Principal secretary, WRD, Govt. of Rajasthan
21. Principal secretary, WRD, Govt. of Maharashtra
22. Principal secretary, WRD, Govt. of Andhra Pradesh
23. Principal secretary, Irrigation & CAD department, Govt. of Telengana
24. Chief Engineer (PPO), Sewa Bhawan, New Delhi
25. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
26. Commissioner (State Projects), MoWR, RD & GR, Room No-411, S. S. Bhawan, New Delhi.
27. Commissioner (FM), MoWR, RD & GR, CGO Complex, 11th Block, 8th Floor, Lodhi Road, New Delhi.

Copy for information to:

28. Sr. PPS to Secretary, MoWR, RD & GR, Room No. 407, Shram Shakti Bhawan, New Delhi.

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Government of India

Ministry of Water Resources, River Development & Ganga Rejuvenation

Central Water Commission

SUMMARY RECORD OF DISCUSSIONS OF 135TH 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 HELD ON MONDAY, 12TH MARCH, 2018 AT NEW DELHI.

The 135th 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 Chairmanship of Sh. U.P. Singh, Secretary to the Government of India, MoWR,RD&GR on Monday, 12th March, 2018 at 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 participated in the meeting, is given at **Annexure.**

At the outset, the Secretary (MoWR, RD & GR) and Chairman, Advisory Committee welcomed the participants. Thereafter, the agenda items were taken up one by one:

1. Confirmation of the minutes of 134th meeting of the Advisory Committee

Chief Engineer (PAO), CWC and Member Secretary, Advisory Committee informed that the 134th meeting of the Advisory Committee of MoWR, RD&GR on Irrigation, Flood Control and Multi-purpose Projects was held on 30.05.2017. Summary Record of Discussions was circulated vide letter No. 16/27/2017- PA(N)/1128-48 dated 10.06.2017 and corrigendum was circulated vide letter No. 16/27/2017- PA(N)/1244-64 dated 06.07.2017. As no comments on the Summary Record and corrigendum were received, Advisory Committee confirmed the minutes of 134th meeting read with corrigendum as circulated.

2. Follow up action after the 134th meeting of the Advisory Committee

Project Proposals deferred in earlier meetings discussed by the Advisory Committee:

a. Andhra Pradesh Irrigation and Livelihood Improvement Project Phase – II (APILIP-II) (New Major, Estimated Cost Rs. 2000 Cr., B.C. ratio 1.67:1)

This proposal was earlier discussed during 131st and 132nd meetings of the Advisory Committee. However, consideration of the proposal for its acceptance had to be deferred due

C.L.DAS
CE(PAO)

to pending inter-state issues regarding water sharing of Andhra Pradesh with Telangana, Karnataka & Tamil Nadu and also other issues related to techno-economic appraisal. The pending issues of this project have been resolved.

The representative of Government of Andhra Pradesh informed that APILIP-II was proposed to be implemented with the assistance of Japan International Cooperation Agency (JICA). The project objective is to increase the local productivity, strengthen institutional and marketing capacities by rehabilitating existing irrigation systems covering CCA 1,55,910 ha, supporting integrated farming systems and strengthening value chain development, thereby contributing toward improvement of livelihoods of farmers and other rural communities in Andhra Pradesh.

The project consists of modernization of 1 major irrigation & 19 medium irrigation & 445 minor irrigation projects & Implementation of Livelihood Improvement Programs spread over all the 13 districts of Andhra Pradesh. Other components of the APILIP-II are Participatory Irrigation Management (PIM), Promotion of Farmers Producer Organizations (FPO), Livelihood Support Program - Animal Husbandry & Fishery Development, Pilot Programs - Food Value Chain in strategic crops like Mango, Chilli, Tomato and Coconut & Farm Mechanization - Establishment of Agriculture Mechanization Training Centre (AMTC), Project Management - through Project Management Unit (PMU) / District Implementation Unit (DIU) and Consulting Services - through Project Management Consultancy (PMC).

The project authority made detailed presentation. The expected outcomes of the project are as given below:

- Increase in water conveyance efficiency and strengthening of farmers organizations
- Bridging the gap Ayacut & Supplying water to tail end reaches
- Capacity building of Water User Associations (WUAs) & Departmental Officers
- Increase in Water Tax collection
- Establishment of 20 Farmer Produce Organizations (FPOs), 921 VFF(Village Farmers Federation)
- Increase in productivity of Animal Husbandry in 240 villages
- Establishment of 2 No Agriculture Mechanized Training Centers
- Construction of Godowns, Drying Yards to 500 Water User's Associations
- Improvement of the livelihoods of fishermen in 75 FCS (Fishermen Co- operative Societies)

The project does not envisage any new hydraulic structures. Govt. of AP has given an undertaking stating that there will be no change in scope, culturable command area, gross irrigated area, cropping pattern and water utilization vis-à-vis originally planned because of taking up works in the projects under APILIP-II.

After deliberations, the Advisory Committee accepted the project subject to the following conditions.

1. Adherence of Govt. of AP to the given undertaking that there will be no change in scope, culturable command area, gross irrigated area, cropping pattern and water

utilization vis-à-vis originally planned because of taking up works in the projects under APILIP-II.

2. Statutory clearance (Environment, Forest, Wildlife, Tribal Affairs & R & R etc.) as applicable.
3. Minor Irrigation Projects have not been examined as minor projects come under the purview of State Government. The information as provided by the State Government has been taken into account for arriving at consolidated project parameters as well as estimated cost. Before implementation, State Government should carry out detailed analysis to arrive at benefits from these projects.
4. State Govt. may take views of Central Ground Water Board before implementation of project to avoid problem of water logging / drainage congestion.

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. The micro irrigation shall be encouraged in the command as per feasibility.

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.

iv. Minimum environmental flow in the downstream of the river may be ensured as per the prevailing norm / as per the terms and conditions stipulated by MoEF & CC.

v. Annual maintenance, de-weeding etc. should be ensured.

vi. 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 or funding from any external multilateral agency.

3. New Project Proposals discussed by the Advisory Committee

3.1 Irrigation and Multi-purpose Projects

a. Noa Dihing Dam Project, Arunachal Pradesh, National Project (Estimated Cost Rs. 1291.93 Cr. @ PL May 2017, B.C. Ratio 1.41:1)

Noa-Dihing Dam Project envisages construction of a storage dam across the Noa-Dihing River to harness the potential of the river for irrigation and power generation. The power house in this project is proposed at dam toe with 2 unit of 34 MW each and 2 unit of 2 MW each and proposed CCA of this project is 3605 ha.

A presentation on the project proposal was made by Superintending Engineer, Brahmaputra Board, Guwahati. At the outset secretary WR, RD&GR enquired about any

representative of Government of Arunachal Pradesh attending the meeting. It was informed that no representative of Government of Arunachal Pradesh was attending the meeting. The issue of ownership of the project was also discussed. Superintending Engineer, Brahmaputra Board informed that the DPR had been prepared by Brahmaputra Board and the same had been sent to Arunachal Pradesh Government but no comment had been received from the State Govt. It was informed that the Statutory Clearances such as Environment Clearance, Forest Clearance and Clearance from MoTA were yet to be obtained. Power tariff is also yet to be finalized. The economic viability of the project in respect of power is yet to be established. The rate of power tariff is also expected to be high as mentioned by the representative of Central Electricity Authority. The B.C. Ratio for irrigation component only has been computed which is 1.41:1.

The project proposal was deliberated in detail. As the ownership of the project and the source of funding is not clear and overall economic viability of the project has not been established the Advisory Committee decided that the project may be deferred and again put up to Advisory Committee once the above issues are resolved.

b. Kanhar Barrage Project, Jharkhand, New, Major Irrigation (Estimated Cost Rs. 1908.84 Cr. @ PL 2016-17, B.C.Ratio 1.07:1)

Project Authority made a presentation on the proposal. The salient points are as under:

(i) Kanhar Barrage Project was deliberated since 1975 which has been planned in water deficit area of Garhwa (Erstwhile Palamu) district in the state of Jharkhand.
(ii) Kanhar barrage project envisages construction of a 224m long barrage on river Kanhar, one of the major right bank tributary of river Sone, near village Khuri under Ranka Block of Garhwa district in Jharkhand.
(iii) The CCA and Annual Irrigation of the Project is 53,283 Ha.
(iv) It has been confirmed by the project authority that there is no displacement of population on account of the project.
(v) During deliberation on the land cost, it has been confirmed by the project authority that The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement (RFCTLARR) Act-2013 of Govt. of India has been adopted for land compensation. Besides this, the rules adopted in the state of Jharkhand have also been applied.
(vi) It has been confirmed by the project authority that project cost has been arrived based on latest Schedule of Rate -2016 currently applicable in the state of Jharkhand.
(vii) Augmentation of the existing irrigation projects in the area has been extensively discussed in light of water deficient reservoirs i.e. over-designed over the period of time. However, this was highly appreciated by members of Advisory Committee that Kanhar water shall be utilized to fill the deficit in the existing reservoirs through gravity flow and stabilize the system. Each of the canal system terminates into existing water bodies. Water supply to almost 2000 Ponds/ Ahars&Pynes in the command area shall also help to intensify irrigation to fields in draught prone zone of Garhwa district.
(viii) The Benefit Cost Ratio of Kanhar Barrage Project is 1.07:1 which is acceptable since the project is providing benefits to draught prone areas.
(ix) There is a need for focusing on Micro Irrigation while implementing the project.

The project was deliberated in detail and it was informed that all the aspects of this project had been accepted during appraisal. However, statutory clearances from MoEF&CC and MoTA are yet to be submitted by the State Govt. of Jharkhand. Project authorities informed that the process of obtaining clearances from concerned Ministries was in progress.

Secretary (MoWR, RD & GR) and Chairman, Advisory Committee observed that as per the storage data shown in the presentation all the 3 reservoirs namely Anraj, Danro and Chataniyaghat got filled up by approximately 30% of their live storage during last 7 years and enquired about reasons for this shortage. It was informed that these reservoirs had been constructed in 1970s and the hydrology of these reservoirs was arrived at based on empirical formula. In this context, Secretary MoWR, RD&GR and Chairman, Advisory Committee emphasized that the hydrology of the project needs to be finalized carefully.

Advisory Committee of MOWR, RD&GR emphasized that the B.C. Ratio (1.07:1) of the project is marginally above the threshold value. In order to maintain the B C Ratio, it is advisable that the project implementation is strictly monitored to adhere to the approved cost and schedule. Only through an effective and efficient project management, the viability of the project as planned can be achieved.

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

1. Submission of concurrence of State Finance Department for the finalized cost.
2. Submission of Environment Clearance and Forest Clearance from MoEF&CC.
3. Submission of Tribal Clearance on R&R of tribal population from Ministry of Tribal Affairs.
4. The project is accepted without any commitment of funding from Central Government.

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) Water charges from the farmers shall be collected and this revenue shall be used for Operation & Maintenance (O&M) of project in the future.

(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) Possibility of Micro Irrigation may be explored as far as possible while implementing the project.

(v) Project may be completed within stipulated completion time of 5 years.

c. Varkhede-Londhe Barrage Medium Project, Maharashtra (New, Medium Irrigation, Estimated Cost Rs. 526.65 Cr. @ PL 2016-17, B.C.Ratio: 2.51:1)

Varkhede-Londhe Barrage Medium project is proposed to be constructed across river Girna, about 24 km down stream of already existing Girna dam and 9.5 km downstream of the confluence of Girna and Manyad rivers, a tributary of river Tapi. The project has a gross storage capacity of 35.582 MCM and live storage of 34.767 MCM near village Varkhede in ChalisgaonTaluka of Jalgaon District (Maharashtra), 25 km. away from Chalisgaon city in Jalgaon District.

The Executive Director, TIDC, Jalgaon made a detailed presentation on Varkhede Londhe Barrage Medium Project, Jalgaon which is benefiting Bhadgaon and Chalisgaon Taluka of Jalgaon district which comes under severe drought prone area. The project has CCA of 9428 ha and annual irrigation of 7919 ha. The project has been accorded statutory forest and environmental clearances. He mentioned that the project was proposed by Govt. of Maharashtra under "Baliraja Sanjivani Scheme" i.e. special package for suicide prone districts of Vidarbha & Marathwada and drought prone areas of Rest of Maharashtra.

Secretary (MoWR, RD & GR) and Chairman, Advisory Committee observed that per ha cost of irrigation was on higher side. It was clarified that out of total cost Rs. 526.65 crore at 2016-17 price level, the cost of dam was coming as Rs. 374.69 Crore as dam axis is having high overburden below river bed, hence special diaphragm wall is to be constructed below river bed to stop seepage hence cost of dam is on higher side.

The issue about the examination of inter-state aspect of this project was also discussed. It was informed that the inter-state aspect of this project has been examined and accepted by Regional Office of CWC.

After deliberations/ discussion, the Advisory Committee accepted the proposal.

d. Parwan Major Multi-Purpose Irrigation Project, Rajasthan, (New, Major, Irrigation Estimated Cost Rs. 6398.78Cr. @ PL 2014, B.C. Ratio: 1.503:1)

The original project proposal for Parwan Major Multi-Purpose Irrigation Project Jhalawar, Rajasthan was accepted during 120th meeting of TAC held on 13.09.2013 at an estimated cost of Rs. 2435.93 crore at 2011-12 price level. The original project envisaged CCA of 1.31 lakh ha and annual irrigation in 99864 ha area through conventional gravity water distribution system.

Rajasthan Government has since come up with the policy of executing water resources projects only on the basis of pressurized/micro irrigation system. Provision of the 2013 Act regarding acquisition, rehabilitation and resettlement has led to significant increase in acquisition, rehabilitation and resettlement costs. Also, costs of various components have been updated on Schedule of Rates 2014 and current price level fixed by Government of Rajasthan for piped water distribution system. In the revised project proposal, irrigation is proposed to be provided through pressurized pipe/micro irrigation system which will lead to

saving of water, allowing increase of annual irrigated area of 1,22,020 ha to CCA to 2.01 lakh ha. The consequent revised cost of the project stands as Rs. 6398.78 crore at SOR 2014/ Current Price Level for piped water distribution system.

Rajasthan Government has already obtained Environment Clearance, Wildlife Clearance, permission for diversion of forest land and approval to R&R plan for the original project CCA of 1.31 lakh ha. Rajasthan Government has spent an amount of Rs. 1353 Crore on activities like acquisition and rehabilitation etc. Work order for construction of headwork amounting to Rs. 673 Crore has been placed and work is under progress. Tenders for construction of distribution network for original approved area of 1.31 lakh ha have also been invited. Requisite statutory clearance for additional CCA will have to be obtained from competent authority.

The project is a multi-purpose project and expected to provide water for thermal power industries/plants, drinking water in addition to irrigation. The issue of apportionment of cost among different users was earlier discussed in 119th meeting of Advisory Committee held on 29.8.13. Advisor (Cost), Department of Expenditure, Ministry of Finance had raised the issue of apportionment of capital cost in the said meeting and thereafter through a separate letter dated 30.08.2013. Advisor (Cost), emphasized on the clearance given by Ministry of Environment & Forest wherein it was mentioned that water from the project to Industrial users (thermal power plants) be provided only after realizing higher charges. It was also pointed out by the Advisor (Cost) that in another nearby project namely Kalisindh project, cost of Rs. 22 Crore per MCum was already being borne by Rajasthan Rajya Vidhyut Utpadan Nigam Ltd (RRVUNL) and therefore adopting cost much below this level would not be appropriate.

During 120th meeting, Member Secretary, Advisory Committee informed that the procedure adopted for allocation of cost to irrigation was based on the use of facilities method and due weightage had been given to the supply of water to industrial sector which is at 100 percent dependability. The project had been accepted by Advisory Committee in the 120th meeting at an estimated cost of Rs 2435.93 Crore at 2011-12 price level with breakup of price as industrial sector Rs. 655.33Crore, PHED Rs. 56.75 Crore & Irrigation Rs. 1723.84 Crore.

Referring to the minutes of 120th meeting of Advisory Committee, Director (Cost), CWC vide letter no. 10/2/2017 /CA/(I)/43-44 dated 6.3.2018 apportioned the project cost of Rs 6398.78 crore among various beneficiaries as Rs 2179.29 crore for Industry (@ Rs 27.586 Cr/Mcum), Rs 188.71 crores for PHED & Rs 4030.78 crores for irrigation. The BC ratio with this cost apportionment for irrigation is 1.503:1. However, it was subject to the concurrence in respect of bearing the proposed share of cost of Unit-I by the industries.

It was decided that Govt. of Rajasthan may obtain concurrence from the industries for bearing their allocated shared cost of Unit-I. The Govt. of Rajasthan informed during the meeting that in case industries did not agree to bear the revised allocated shared cost of Unit-I to them, the allocated share of water to industries will be used for irrigation and corresponding cost of Unit-I will be charged to irrigation. The BC Ratio in such a case will be less than 1.50.

Advisory Committee decided to accept proposal for revision of Parwan Major Multi-Purpose Irrigation Project, at an estimated cost of Rs. 6398.78 crore at SOR 2014/Current Price Level for piped water distribution system with B.C. Ratio of 1.503:1 subject to concurrence of industries for bearing the allocated cost of Unit-I to them.

In case, any prospective industrial user does not agree to bear the said apportioned cost, then water planned for industrial use may be used for irrigation and in that case considering the acute water scarcity in Rajasthan, exorbitant increase in acquisition and rehabilitation cost as per Land Acquisition Act 2013, Investment clearance amounting to Rs 2435.93 Cr already issued by Planning Commission Government of India vide letter no (439)/2013-WR dated 10.12.2013, advanced stage of project implementation and associated substantial expenditure already incurred by Government of Rajasthan, Advisory Committee decided to accept proposal for revision of Parwan Major Multi-Purpose Irrigation Project, at an estimated cost of Rs. 6398.78 crore at SOR 2014/Current Price Level for piped water distribution system even with B.C. Ratio of less than 1.50.

The above acceptance is also subject to the fulfillment of the following conditions:

(1.) Statutory Clearances i.e. Environment, Wildlife and Forest Clearance would be obtained from MoEF& CC.

(2.) Tribal Clearance on R&R of tribal population would be obtained from Ministry of Tribal Affairs.

General Conditions:

(i) Participatory Irrigation Management (PIM) would 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 would be involved in Operation and Maintenance of canals, Warabandi etc. to ensure PIM.

(ii) Appropriate response to the observations/comments given by the specialised directorates would be submitted the project authorities.

(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.

(iv) Minimum environmental flow in the downstream of the river would be ensured as per the prevailing laws/ as per the terms and conditions stipulated by MoEF&CC.

(v) Project would be completed within stipulated completion time of 5 years.

e. Modernization of Nizamsagar Project-Main Canal and Distributory system including repairs to CM & CD works, Telengana (Major Irrigation, ERM, Estimated Cost Rs. 920.00 Cr. @ PL 2016-17, B.C.Ratio: 1.68:1)

The Project Authority presented the details of the project before the Committee and explained that the Nizamsagar Project was constructed by the erstwhile Nizam Government on Manjeera river during 1923 to 1931. The dam is located 80 Km from Nizamabad town, 150 Km from Hyderabad & 85 Km upstream of River Godavari. The main component of the Project (ERM) proposal envisages:

i) Modernization of Main canal from R.D Km. 0.00 to Km. 155.00 and distributaries/sub-distributaries including CM and CD works. It includes clearing away the jungle, silt removal, strengthening and raising banks to its original standards and lining with cement concrete as per IS code & CSMRS observations.
ii) Dam safety works.

The Cost has been finalized as Rs. 920.00 Crore (Price Level of 2016-17) by CWC with Benefit Cost Ratio at 10% interest rate works out to be 1.68:1. The Project proposes to provide irrigation to drought prone areas. Project Authority also confirmed that the Project had already got State Finance Concurrence (SFC).

During presentation and detailed deliberation, it was informed by Project Authority that the Project and its canal system were 87 years old. 90 % of canal is unlined. The canal discharge designed to carry 96.28 Cumecs can presently accommodate only upto 65.13 Cumecs and maximum carrying capacity of the canal has been reduced drastically due to seepage loss, silt and poor maintenance of age old structure. Tail end areas are not getting water at all.

The Advisory Committee observed that if any new project has already been started by the Project Authority before acceptance by the Advisory Committee. The said project will only be processed for inter-state aspect and will not be further considered for acceptance by the Advisory Committee and all such projects will be termed as unapproved projects, which is in accordance with the provision at para 4.28 of the *Guidelines for Submission, Appraisal and Acceptance of Irrigation and Multipurpose Projects, 2017 (CWC/MoWR, RD&GR).*

After detailed deliberation, it was also informed that the Project is under appraisal in CWC, New Delhi since May 2015 and all the necessary due diligence process required for techno-economic appraisal as per the existing guidelines of 2010 & 2017 w.r.t aspects like Irrigation Planning, Inter-State Matters, Hydrology, Ground Water, Soil and Material Testing (CSMRS) &cost appraisal has been carried out by CWC and other appraising Agencies/Organisations like CGWB/CSMRS/ State Agriculture Department etc.

The execution of the Modernisation of Nizamsagar Project is going on and as per the Project Authority, the expenditure already incurred till 15th February is Rs 611.65 Crores which is 66.5% of the total cost. Also, the physical progress upto 15th February is around 70%.

Secretary (MoWR, RD & GR) and Chairman, Advisory Committee observed that

physical progress of approximately 70% has already been achieved in this project and an expenditure of approximately 66% has already been incurred and in this context Secretary MoWR, RD&GR enquired about the need of techno-economic appraisal of this project which is at an advance stage of implementation. It was informed that since inter-state issue is being involved in this project, its techno-economic appraisal by CWC and subsequently its acceptance by Advisory Committee is required.

In view of the above, the proposal was accepted by the Advisory Committee for a cost of Rs. 920 Crores with a BC Ratio of 1:68:1. The Project is to be completed within stipulated time frame of 3 years.

3.2 Flood Control Projects

a. Protection work of left edge of river Ganga from Kewala village to Bagmara village in the length of 5200m, in the state of Bihar (Estimated Cost Rs. 66.26 Cr. @ PL 2015, B.C Ratio, 1.77:1)

A presentation on the project was made by representative of WRD, Govt. of Bihar. It was informed that the project estimate amounting to Rs. 6625.81 lakhs had been framed to meet the cost of anti- erosion work for protection of left edge of river Ganga from Kewala village to Bagmara village in distt-Katihar, Bihar, for a length of 5200m. The envisaged project will protect 55000 Ha area and 60000 population from flooding. The proposal has been techno economically appraised by GFCC and recommended for acceptance by the Advisory Committee.

After detailed deliberation, the proposal was accepted by the Advisory Committee

b. Gap closure of B.K.G. Right Embankment from Km. 69.24 to KM 74.63 & KM 86.3 to Km. 87.37 with construction of five nos. sluice between Km 69.24 to Km 90.53 with protection work at the junction of Right Embankment of Western Gangi River and B.K.G. Right Embankment, Bihar(Estimated Cost Rs. 40.59 cr @ PL 2016, B.C. Ratio: 2.92:1)

A presentation on the project was made by the representative of WRD, Govt. of Bihar. It was informed that the Buxer- Koelwar Ganga right Embankment was constructed between the period of 1974-1990 to protect the vast fertile tract and its population from flood of river Ganga. The envisaged project proposal shall protect 36000 Ha area and 30000 population from flooding. The proposal has been techno economically appraised by GFCC and recommended for acceptance by the Advisory Committee.

After detailed deliberation, the proposal was accepted by the Advisory Committee

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

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Annexure

LIST OF OFFICERS PRESENT IN THE 135th MEETING OF THE ADVISORY COMMITTEE ON IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECTS ON MONDAY, THE 12th MARCH, 2018 AT 10:00 HRS IN THE CONFERENCE ROOM OF MINISTRY OF WATER RESOURCES, RD&GR, SHRAM SHAKTI BHAWAN, RAFI MARG, NEW DELHI.

Shri U.P. Singh, Secretary, MoWR, RD&GR — **In Chair**

Members, Advisory committee or their representatives / nominees
S/Shri

1.	S. Masood Husain, Chairman, Central Water Commission	Member
2.	Jagmohan Gupta, Joint Secretary & Financial Advisor, MoWR, RD& GR	Member
3.	S.K. Juneja, Scientist 'D' Central Ground Water Board(Representing Chairman, Central Ground Water Board).	Member
4.	Dr. Ramanand, Dy. Commissioner, NRM Department Of Agriculture & Co-operation (Representing Secretary, Agriculture & Co-operation)	Member
5.	J.S. Bawa, Chief Engineer, CEA, M/o Power (Representing Chairman, CEA)	Member
6.	C.K.L. Das, Chief Engineer, Project Appraisal Org., CWC	Member Secretary

MoWR, RD&GR
S/Shri

1. Rakesh Toteja, Sr. Joint Commissioner (FM)

Central Water Commission
S/Shri

1. N.K. Mathur, Member (D&R), CWC
2. Pradeep Kumar, Member (RM),CWC
3. Navin Kumar, Chief Engineer, IMO, CWC
4. R.K. Pachauri, Chief Engineer, PPO, CWC
5. Rajesh Kumar, Director, ISM-2 Dte., CWC
6. G.L. Bansal, Director, NP Dte., CWC
7. Goverdhan Prasad, Director, EA Dte., CWC
8. N. Mukherjee, Director, PA (S) Dte., CWC
9. Rajiv Kumar, Director, PA (C) Dte., CWC
10. B.C. Vishwakarma, Director, IP(S) Dte., CWC
11. Piyush Ranjan, Director, PA (N) Dte., CWC
12. A.K. Madhok, Dy. Director, PA (C) Dte., CWC
13. Sharad Kumar Kaushal, Assistant Director, PA (N) Dte., CWC
14. Durgendra Singh, AD-II, PA (N) Dte., CWC

Ganga Flood Control Commission
S/ Shri

1. Arun Kumar Sinha, Chairman, GFCC, Patna

Officers from State Government

Andhra Pradesh
S/Shri

1. K. Narasimha Morty, Superintending Engineer, CADA. Vijaywada, A.P.
2. N. Pulla Rao, Superintending Engineer, APILIP-II, CADA, WRD, A.P.
3. Dr. P.S. Raghavaiah, S.P.D., APILIP-II, CADA, WRD, A.P.
4. K. Gopinath, Executive Engineer, O/o Commissioner, CADA. Vijaywada, A.P.
5. Rakesh Routhu, Consultant, Major & Medium irrigation. Contec, Hyderabad
6. Kamana Jha, Liaison officer, WRD, A.P., (South Ex-II, New Delhi)

Arunachal Pradesh
S/Shri

1. D.J. Borgohain, Superintending Engineer (P), Brahmaputra Board
2. Shyamal Kumar Deka, Executive Engineer, Brahmaputra Board

Bihar
S/Shri

1. S.S. Panday, Chief Engineer, Flood Control & Drainage, Katihar, Bihar
2. Hari Narain, Chief Engineer, Flood Control & Drainage, WRD, Patna, Bihar
3. Akhtar Jamil, Executive Engineer, F.C.D. Patna, Bihar
4. C. Chandra Mishra, RE, WRD, Bihar

Jharkhand
S/Shri

1. D.K. Tiwari, Additional Chief Secretary, Jharkhand
2. Motilal Pingua, Chief Engineer, WRD, Medininagar
3. S.P. Bhagat, Executive Engineer, Planning & Monitoring, D-3, WRD, Ranchi
4. Chhattu Tigga, Executive Engineer, Investigation Division, Garhwa
5. B.C. Jha, Consultant

Maharashtra
S/Shri

1. M.W. Paunikar, Director (M&A), Vadodara
2. S.D. Kulkarni, Ex. Director, TIDC, Jalgaon
3. P.R. More, Executive Engineer, JIPC, Jalgaon
4. Sachin R. Patil, Assistant Executive Engineer, Tapi, Jalgaon

Rajasthan
S/Shri

1. Shikhar Agrawal, Principal Secretary, WRD, Secretariat, Jaipur, Rajasthan
2. K.D. sandu, Chief Engineer, WRD, Kota, Rajsthan
3. Dheeraj Johri, Superintending Engineer, WR Project, Circle, Jhalawar, Rajasthan
4. P.K. Gupta, Executive Engineer, Parwan Project, Dam Div-II, Rajasthan
5. M P Nirmal, Assistant Engineer, Jhalawar, Rajasthan

Telangana
S/Shri

1. R M S Rao, Chief Engineer, Nizamsagar Project, Talangana
2. J.K. Moorthy, Dy. Executive Engineer, Nizamsagar Project, Telangana