No. T-28053/1/2020/ 410-22

Government of India Central Water Commission Project Appraisal Organization

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7th Floor (S), Sewa Bhawan, R,K. Puram, New Delhi. Dated: 29 /05/2020

Minutes of Meeting

A copy of the Summary Record of Discussion of the 145th Meeting of Advisory Committee of DoWR, RD & GR on Irrigation, Multipurpose and Flood Control Projects, held under the Chairmanship of the Secretary, DoWR, RD & GR on 26.05.2020 through video conferencing, is enclosed herewith for information and further necessary action, please.

Comments, if any, may kindly be forwarded to this office within 15 days.

Encl: As above. (20 pages)

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

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, II 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&LR), NITI Aayog, Room No. 230, Yojana Bhawan, New Delhi.
- 12. Joint Secretary & Financial Adviser, DoWR, RD & GR, Room No-401, S.S. Bhawan, New Delhi.

Special Invitees:

- 1. Additional Secretary, DoWR, RD&GR.
- 2. Chairman, GFCC, Sinchai Bhawan, Patna, Bihar
- 3. Member (D&R), CWC, New Delhi.
- 4. Member (RM), CWC, New Delhi.
- 5. Member (WP&P), CWC, New Delhi.
- 6. Secretary, WRD, Sinchai Bhawan, Govt. of Bihar, Patna
- 7. Principal Secretary, WR, Govt. of Uttar Pradesh, Lucknow
- 8. Principal Secretary, WR, Govt. of Himachal Pradesh, Shimla
- 9. Engineer in Chief, Govt of U.P, Lucknow
- 10. Engineer in Chief, Govt of Bihar, Patna
- 11. Chief Engineer ,Jal Shakti Vibhag, Mandi, H.P
- 12. Joint Secretary (RD&PP), DoWR, RD&GR.
- 13. Joint Secretary (IC&GW), DoWR, RD&GR.
- 14. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
- 15. Commissioner (FM), DoWR, RD & GR, CGO Complex Lodhi Road, New Delhi.
- 16. Commissioner (SP), DoWR, RD & GR, Shram Shakti Bhawan, New Delhi.
- 17. Chief Engineer (IMO), CWC, New Delhi.
- 18. Chief Engineer (PPO), CWC, New Delhi.

Copy for kind information to:

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

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Government of India Deptt.of Water Resources, River Development & Ganga Rejuvenation Central Water Commission Project Appraisal Organization

ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD CONTROL AND MULTIPURPOSE PROJECT PROPOSALS

145th MEETING HELD ON, MAY 26TH 2020 THROUGH VIDEO CONFERENCING

BRIEF RECORD OF DISCUSSIONS

The 145th meeting of the Advisory Committee of Department of Water Resources, River Development & Ganga Rejuvenation for consideration of techno-economic viability of major & medium irrigation, flood control and multipurpose project proposals (Advisory Committee), was held under the Chairmanship of Shri U.P. Singh, Secretary to the Government of India, DoWR, RD&GR, MoJS on Tuesday, 26th May, 2020 through video conferencing. The list of participants is annexed herewith as **Annexure-I.**

At the outset, the Chairman welcomed the participants. In his opening remarks, the Chairman informed that some of the participants have expressed that after circulation of the TAC notes, adequate time should be given to them to study the agenda, to enable more meaningful participation. While appreciating the views, the Chairman informed that the proposals under consideration in this meeting pertain to flood protection schemes which need to be completed before onset of monsoon season. The meeting of TAC should have been held in November/December, 2019, but due to delay in submission of proposals by the State Governments, as well as time taken in appraisal of these schemes, the holding of TAC meeting for consideration of these projects got delayed and therefore the meeting had to be convened at short notice.

It was further informed that the schemes being considered by the Advisory Committee in this meeting, have been duly appraised by Ganga Flood Control Commission, which is a specialized flood control agency for Ganga Basin, under DoWR, RD & GR, Ministry of Jal Shakti, Govt. of India. Further, each of the Schemes has been duly approved by the State TAC, and the State Flood Control Board. Also, most of the schemes already have State Finance Concurrence, with the same for balance schemes reported to be in process. With these many levels of scrutiny, both by State Govt. as well as Central agency, the Advisory Committee can remain assured of the techno-economic viability of the schemes.

Thereafter, the Chairman requested the Member Secretary to take up the agenda items.

I. Confirmation of the Minutes of the 144th Meeting of the Advisory Committee :

The 144th meeting of the Advisory Committee was held on 08/05/2020, through Video Conferencing. Thereafter, the Summary Record of Discussions was circulated vide letter No.

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16/27/2019-PA (N)/307-336 dated 13/05/2020. In the said meeting, Minutes of 143rd Meeting of the Advisory Committee held on 9.12.2019 were also confirmed.

The representative of Ministry of Tribal Affairs (MoTA), Govt. of India, vide letter dated 13.5.2020, has observed that for the projects which were accepted during the 143rd meeting, the aspect of clearance from the perspective areas handled by MoTA have not been touched upon. It was, therefore, desired that the details of the projects accepted during the 143rd meeting of the Advisory Committee may be provided to MoTA for examining the issue of R&R of tribal population. After deliberationss, the Advisory Committee approved the inclusion of the concern of MoTA with the modification of item no. (i) of the Summary Record of Discussions of 144th Meeting, as below:

(i) Confirmation of the minutes of the 143rd Meeting of the Advisory Committee

Chief Engineer (PAO), CWC and Member Secretary of Advisory Committee stated that the 143rd meeting of the Advisory Committee was held on 9.12.2019 at CWC, New Delhi. The Summary Record of Discussions of the 143rd meeting was circulated vide letter no. 16/27/2018-PA (N)/1768-98 dated 18.12.2019. No comments on the Summary Record of discussion have been received so far. The Advisory Committee, therefore, confirmed the Summary Record of Discussions of the 143rd meeting.

Representative of Min. of Tribal Affairs (MoTA), GoI, has vide letter dated 13.5.2020 conveyed that while accepting the various projects during the 143rd meeting, the Advisory Committee has not touched upon the aspect of clearance from the perspective of areas handled by MoTA point of view. It was thus requested for details of the projects, so that comments of MoTA may be given.

The Committee requested Member Secretary to provide the details of the projects accepted by the Committee in its 143rd Meeting, to MoTA. With this, the Advisory Committee confirmed the Summary Record of Discussions of its 143rd Meeting.

(ii) Further, vide its letter dated 13.5.2020 referred above, representative of MoTA has also submitted that in order to examine the Ujh Multipurpose Project accepted by the Advisory Committee in its 144th Meeting from the point of Rehabilitation and Resettlement of people belonging to Scheduled Tribe community, it has been seeking requisite information from Govt. of J&K, but the response is awaited.

It was informed by Member Secretary that the present concern of MoTA has already been addressed adequately in second para under the heading 'Discussions', in the Record of Discussions of 144th Meeting of the Advisory Committee. However, it was decided to modify point 2. on the last page of the Record of Discussions of 144th Meeting, with the addition of underlined part as below:

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- 2. Statutory clearance (Environment, Forest, wildlife, R&R <u>including clearance from MoTA for the Tribal population to be affected</u>) to be obtained.
- (iii) Attention of the participants was further drawn to the letter dated 7th May, 2020 from Department of Expenditure, Ministry of Finance, whereby detailed comments on the following issues have been conveyed regarding Ujh Multipurpose Project accepted during the 144th Meeting of the Advisory Committee:
 - a. The project has been accepted by the Advisory Committee earlier also, and now being reaccepted after seven years. Further, no plausible reason has been spelt out for the delay. This has led to substantial increase in cost.
 - b. The escalation factor of 40% taken for cost updation from 2012 level to the current level, should in fact be only 13.28%.
 - c. GST should have been taken at 12% instead of 18%. Further, benefit of input tax credit should also have been explored.
 - d. Audit charges of 0.5% need not be taken as audit would be by CAG.
 - e. Veracity of assumptions used in calculating BC Ratio need to be ensured by DoWR, RD & GR.

Though the views were included in the Record of Discussions of 144th meeting of the Advisory Committee in third para under the heading **Discussions**, but the Additional Chief Adviser (Cost), Department of Expenditure, GoI, has vide email dated 14/05/2020, conveyed that the observations of Deptt. Of Expenditure have been incorporated in a sketchy manner, and it does not reflect thier views in true spirit. It has thus been requested that their observations may be incorporated as it is in the minutes, or as annexure to the Minutes. Further, typographical error in designation of the Participating Official has also been pointed out.

In view of the above it was decided to modify 3rd para under heading **Discussions**, in the Record of Discussions of 144th Meeting, with the addition of underlined part as below:

Assistant Additional Chief Advisor (Cost), Ministry of Finance made some observations regarding rate of GST to be taken in the estimates, escalation factor for civil works of lift component, provision of audit and accounts charges and establishment charges etc. kept in the estimate. In this regard, letter from Deptt. Of Expenditure dated 7th May, 2020, is annexed herewith. It was informed that these are estimates only and will be automatically taken care of at the tendering stage as per guidelines and prevailing rates of GST.

With the above modifications, the Summary Record of Discussions of the 144th meeting of the Advisory Committee, were confirmed.

II. Follow up Discussions of the 144th Meeting:

No follow up action is required.

III. Issues taken up prior to taking up of individual Schemes:

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their concern over the fact that Agenda Notes for the 13 schemes being considered by the Advisory Committee in the present meeting, were received only on Friday, 22nd May, 2020, which was followed by three holidays, immediately after which the meeting is being held. They stressed upon the need for adequate time to study the agenda, for more meaningful participation.

It was clarified by the Member Secretary that the Chairman has in his opening remarks, already briefed on the circumstances under which the present Advisory Committee has been convened, to consider flood schemes which need to be taken up prior to the onset of the monsoon season. However, the Member Secretary assured the participants that the point has been well taken, and has been noted for future.

b. The representative from Niti Ayog suggested that a standardized proforma for submitting DPR to be considered by the Advisory Committee, should be circulated to the various State Governments, so that the project proponents know precisely what information is to be provided, and at the same time requisite information becomes available to the appraising agencies, in one go.

Member Secretary informed that the proforma is already prescribed and circulated, and the same is also being followed by the project proponents.

- c. Participants from Department of Expenditure expressed their concern over some additional general issues, as below:
- (i) Bill of Quantities (BoQ) Estimates in respect of various components of the project should be provided, instead of merely the aggregate amount.

It was clarified that the estimates are prepared based on BoQ only, which is duly verified during initial stages of appraisal. The Advisory Committee is to look into much broader issues. However, efforts would be made to provide BoQ details to Deptt. of Expenditure beforehand, for subsequent meetings of the Advisory Committee.

(ii) Basis of arriving at the monetized value of annual benefits may be provided in the project proposals.

The participants were informed that for flood schemes, as the ones being considered during 145th meeting of the Advisory Committee, the annual



benefits are arrived at on the basis of agricultural crops saved from floods, as well as saving of life and property on annual basis, in line with the norms being followed by the Disaster Management agencies in the State. The Committee requested Member Secretary to share with the representatives of Department of Expenditure, the requisite detailed basis for arriving at the monetized value of annual benefits being used in the States of Bihar, UP and Himachal Pradesh, for which the schemes are being considered in this meeting.

(iii) It was pointed out by the representative of Department of Expenditure (DoE) that in some project proposals from Bihar, Labour Cess of 1% on the aggregate amount of cost of works, regulators and earth works has been included in the project cost. It was further informed that there are many court rulings which have made it clear that this labour cess is not an indirect tax, and is actually a cess only on labour component, to be payable by the Contractor through the Department.

It was clarified by the Member Seccretary that this cess is payable by the Contractor, out of his profit in the works. So it is built-in by the Contractor in his profits while quoting, if so stipulated by the tenderer. Alternatively, the tenderer can volunteer to exclude from the contractor's scope, in which case the contractor is expected to quote minus this cess component. It was also opined that such minute details need not be considered at the stage of estimation and such detailed issues can be addressed at the time of Investment Clearance and tendering.

Nonetheless, the Committee requested GFCC to ensure that at the time of investment clearance no duplication of this labour cess is included in the estimates.

(iv) It was further pointed out by representatives of DoE that in some projects, Taxes and CNC have been shown separately (though no details of calculations are given), while in others it has not been shown separately.

It was explained by the Member Secretary that taxes and duties are integral part of the estimates. The need for uniformity of practice was however appreciated and it was noted for compliance in future.



d. The representative from Ministry of Tribal Affairs brought to the notice of the Committee that for the schemes proposed to be considered by the Advisory Committee, no information has been forwarded regarding Tribal population to be rehabilitated. It was asserted that relevant details must be provided much prior to the Advisory Committee meeting, in the three forms prescribed for the purpose.

It was informed by the Member Secretary that for the flood schemes in general and also for the schemes being considered by the Advisory Committee in the present meeting, there is no R&R involved. Land acquisition of primarily agriculture land, that too only to very limited extent, has been proposed in some of the schemes. It was further informed that a certificate regarding no R&R being involved, has been enclosed in the TAC notes circulated to the participants. However, the point has been well taken and will be complied with for the Medium/ Major projects to be taken up in the subsequent meetings.

(ii) Project Proposals considered by the Advisory Committee

A total of 13 Flood Control Projects were considered by the Advisory Committee in its 145th Meeting. 8 out of these belong to Bihar, 4 to UP and 1 to Himachal Pradesh. The details of discussions held and decisions taken, are as below:

A. Bihar

(i) Bagmati Flood Management Scheme Phase-III(b), Bihar (Estimated Cost RS. 913.215 crore at 2018 PL, B.C. ratio:1.62:1)

The Bagmati Flood Management Scheme in Ganga basin was accepted, in principle, in 91st meeting of the Advisory Committee of the then Ministry of Water Resources for Irrigation, Flood Control and Multipurpose projects held on 07.11.2007 for an amount of Rs. 792.00 crore. It was decided to recommend investment clearance by Planning Commission for first phase of works upto 54 km for an estimated cost of Rs. 135.16 crore only. It was also decided that GFCC would approach the Advisory Committee from time to time for the balance works. Based on recommendation of the Advisory Committee, the components of Bagmati Flood Management Scheme have been prioritized for execution into phases viz.- Phase-I, Phase-II, Phase-III(a), Phase-III(b), Phase-IV(a) and Phase-V. The works in different phases cover both the left and right embankments of Bagmati.



The works under Bagmati Phase-I have already been completed. 90% of the whole works under Bagmati Phase-II have also been completed. Works under Bagmati Phase-III(a) (accepted by the Advisory committees in its 126th meeting held on 30-07-2015) are ongoing and so far 50% of the proposed works have been completed.

The present scheme titled Bagmati Flood Management Scheme Phase-III(b) has been proposed on the left bank of River Bagmati along Sirnia-Phuhia Embankment between 112.28 km to 186.7 km. The scheme will provide flood protection in the districts of Samastipur, Khagaria, Darbhanga and Saharsa in Bihar covering area to the tune of 1,30,900 ha and benefiting 50.40 lakh population. The scope of work include raising & strengthening of existing left embankment in 74.420 km length from 112.28 km to 186.70 km (Sirnia-Puhia Embankment), construction of 67 nos. earthen dhalas, construction of vehicle crossing Platform at every 1 km, construction of 14 nos. anti flood sluices at proper locations and construction of 200 mm Brick Flat Soling (B.F.S) road on top of embankment. The scheme has been proposed to be completed by 2022-23.

A detailed presentation on the project proposal was made by the Secretary, WRD, Govt. of Bihar explaining the urgency of the implementation of the scheme.

Member (C), GFCC emphasized that priority should be given to tagging of Bagmati Left Embankment with the end portion of Kamla Right Embankment near Phuhiya so that the large area lying between Kamala and Bagamati river can be protected from flood and inundation.

The Chairman advised that a comprehensive master plan must be prepared for the entire river reach and priority-wise work may be undertaken. Cost of existing as well as proposed embankments on the entire river may also be elaborated and overall benefit of the embankments may be evaluated. He also suggested to have proper health assessment of the existing embankment for planning of its raising and strengthening.

Additional Chief Advisor (Expenditure) pointed out that the cost should be revised at present price level. She also pointed out that although there is no issue of

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resettlement and rehabilitation, yet a sum of Rs. 2500 lakh has been considered for forest land and rehabilitation. Secretary, WRD, Bihar clarified that the scheme was formulated in 2018 itself and finalization of scheme took time. He also clarified that the provision of Rs. 2500 lakh has been kept for relocation of the trees on the forest land. Chairman again emphasized that the estimated cost is tentative only and actual cost would be based on the works actually taken up through tendering process.

After deliberations, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of funds under any scheme of DoWR, RD & GR.

(ii) Anti erosion works on Left Bank of River Ganga at Bali tola (Nazarmira) to Sabalpur Pachhiyari Tola, Bihar (Estimated Cost Rs. 45.10 crore @ 2019 PL, B.C. ratio: 5.35:1)

The scheme envisages provision of anti-erosion works in 2710m length on left bank of river Ganga at all vulnerable sites of Sabalpur village. The scheme will provide flood protection in the districts of Saran in Bihar covering area to the tune of 1553 ha and benefiting 0.5 lakh populations. The scope of work includes;

- (a) Construction of apron by Geo-bag filled in P.P rope gabion over N.C base in a length of 2710m with two layers Geo-bag slope pitching and anchorage at both end and capping at N.S.L.
- (b) Construction of dowel at N.S.L with proper slope in a length of 2710m with 2 layer Geo-bag slope pitching in river side slope

A detailed presentation on the scheme was made by the Secretary, WRD, Govt. of Bihar explaining that the proposed anti-erosion work was essential to protect life and property of the area including densely populated Sabalpur village as during floods of 2019, the previous anti-erosion work was completely eroded from Badrighat to Sabalpur Pachhiyari tola, which led to the damage of agricultural land and property.

Additional Chief Advisor (Expenditure) desired to know the details on the basis of which benefits have been estimated. Director, GFCC informed that the project

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benefits have been estimated from the cost of average annual erosion of land by river Ganga in the project area. He further informed that the rate of land was obtained from the concerned Circle Office at Sonpur.

The Joint Secretary, MoTA enquired about the R&R of the tribal population. He intimated that for all projects proforma in prescribed format in this regard should be submitted. The Member Secretary confirmed that no R&R issue is involved in this scheme and the certificate in this regard was attached in TAC note.

After deliberations, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

(iii) Extension of left Bhutahi Balan embankment from Km 25.00 to Km 31.610 (up to Ghoghardiha to Nirmali Railway line near Parsa halt) with Revetment, Bihar (Estimated Cost Rs. 48.44 crore @2019 PL, B.C. Ratio: 1.40:1)

The scheme envisages provision of extension of left embankment by 6 km (from 25 km to 31.6 km) to protect the flood affected areas of about 56 villages located in the left bank of Bhutahi Balan river. The scheme will provide flood protection in the districts of Madhubani in Bihar, covering area to the tune of 16,900 ha and benefiting 3 lakh populations. The scope of work include construction of Left Bhutahi Balan embankment (Max. height 5 m and top width as 5 m) from km 25.00 to km 31.60 along with protection in critical reaches and 3 nos. Anti Flood Sluices (AFS) construction and brick soling on top.

A presentation on the project proposal was made by the Secretary, WRD, Govt. of Bihar explaining the need of this scheme.

Chairman pointed that more than 40% of the total estimated cost is for land acquisition and land-acquisition is a major issue and cause of delay in number of projects in Bihar. Secretary, WRD, Govt. of Bihar clarified that since 56 villages are inundated due to floods by Bhutahi Balan, people are very eager for this scheme.

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The Hon'ble Chief Minister of Bihar has also visited this scheme twice. Therefore, land acquisition would not be major issue in this particular scheme. He also informed that Govt. of Bihar has framed a revised land-leasing policy, which would ease the land acquisition process in the state. The project is yet to be accorded State Financial Concurrence.

After deliberations, the project proposal was accepted by the Advisory Committee subject to accordance of State Finance Concurrence by WRD, Govt. of Bihar. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

It was further pointed out that the Committee requested the project authorities to get the State Financial Concurrence prior to moving for Investment Clearance for the project.

(iv) Construction of extended Sikarahatta Majhari low bund from Parsauri to Mahisha in a length of 4.60 Km on the right side of River Kosi, Madhubani District, Bihar (Estimated Cost Rs. 41.92 Crore @ 2019 PL, B.C Ratio 1.51:1)

The scheme envisages extension of the existing 21.50 km long Extended Sikarhatta - Majhari Lower (ESML) Bund existing in the down-stream of Kosi Mahasetu from Mahua-Majhari on NH-57 up to Parsauni village, by 4.60 km from Parsauni to Mahisha village. Flood protection is envisaged in the flood prone villages, namely Salhepur, Basipatti, Karhara, Darah, Mahpatiya, Bakua, Mahisha etc. of Madhubani district, covering area to the tune of 6500 ha and benefiting 0.85 lakh population. The scope of work includes construction of 4 m high earthen embankment (top width of 5m) from Parsauni village upto Mahisha village in a length of 4.60 km, and P. P. Rope Gabion Launching apron of (18m wide x 2 layers) with double layer Geo-bag slope pitching in critical reaches in a total length of 1690 m.

A presentation on the project proposal was made by the Secretary, WRD, Govt. of Bihar explaining the need of this scheme.

After discussions, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not

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guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

(village-Terha), Km 36.60 (village-Rakhwari) and right Kamla Balan embankment at Km 40.60 (village-Gopalkha), Km-47.30 (village-Naruar), Km 55.80 (village-Kathiawar), Km 57.50 (village-Kakodha), Km 71.80 (village-Kumharaul) and Km 79.60 (village-Bath Mansara), Bihar (Estimated Cost Rs. 74.11 Crore @ 2019 PL, B.C Ratio 2.66:1) –

The scheme envisages closure of 8 Nos. breaches occurred in Left and Right Kamala Balan Embankments during 2019 flood. The scheme will provide flood protection in the districts of Madhubani, Darbhanga, Samastipur and Saharsa in Bihar covering area to the tune of 72300 ha and benefiting 7.5 lakh populations. The scope of work includes construction of embankment, revetment of river side slope, two layer geo bag slope pitching in country side, etc.

A presentation on the project proposal was made by the Secretary, WRD, Govt of Bihar explaining the need of this scheme.

After deliberations, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

(vi) Anti-Erosion and restoration work at different points on the right bank of Left channel and Left bank of right channel of River Ganga in Raghopur Block of Vaishali District, Bihar (Estimated Cost Rs. 46.02 Crore @ 2019 PL, B.C Ratio 2.81:1) -

Raghopur Diyara is the area surrounded by river Ganga located in D/S of Mahatma Gandhi Bridge under the Vaishali district of Bihar. The river Ganga divides here into left and right channels surrounding the diyara. Entire Raghopur Diyara is under constant threat of erosion by the river Ganga. The scheme



envisages protecting these areas. The scheme will provide flood protection in the districts of Vaishali in Bihar covering area to the tune of 100000 ha and benefiting 4 lakh populations. The scope of work includes anti-erosion works at various villages on right and left bank of the two channels of Ganga River.

A presentation on the project proposal was made by the Secretary, WRD, Govt of Bihar explaining the need of this scheme.

Further, the project is yet to be accorded State Financial Concurrence.

After deliberations, the project proposal was accepted by the Advisory Committee subject to accordance of State Finance Concurrence by WRD, Govt of Bihar. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

The Committee requested the project authorities to get the State Financial Concurrence prior to moving for Investment Clearance for the project.

(vii) Anti Erosion works before flood 2020 at different location situated on left and right bank of Ganga River under Bhagalpur and Katihar district, Bihar (Estimated Cost Rs. 77.14 Crore @ 2019 PL, B.C Ratio 2.08:1)-

In Tapua & Taufil villages, river Ganga has been shifting its course towards right bank since last ten years and now it has arrived very close to the village. During the year 2019, the river entered 100m in the village portion causing damage to many village agricultural lands and community buildings. The scheme will provide flood protection in the districts of Bhagalpur and Katihar in Bihar covering area to the tune of 14910 ha and benefiting 10 lakh populations. The scope of work includes anti-erosion works in various reaches.

A presentation on the project proposal was made by the Secretary, WRD, Govt of Bihar explaining the need of this scheme.

Additional Chief Advisor (Expenditure) pointed that some expenditure has already been incurred in this scheme during 2019-20. Secretary, WRD explained that the work on only Lattipur Jamindari bundh was started as it was of emergent nature. P.C.C road on the bundh had been washed away in previous year's flood. Hence this work was urgently taken as communication in the villages on the bundh had

been broken due to washing away of P.C.C road. Thus, the expenditure was incurred. However, as far as the proposed works in the present scheme are concerned, no work has been taken up.

After deliberations, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

(viii) Anti Erosion/Restoration works at different points on left and right bank of Ganga River in district of Buxar, Bhojpur and Patna, Bihar (Estimated Cost Rs. 67.87 Crore @ 2019 PL, B.C Ratio 1.25:1)

In order to protect the area located on either banks of river Ganga from Buxar to Bakhtiyarpur (Patna) from erosion, anti-erosion works at 13 locations as well as restoration of existing anti-erosion works at 11 locations have been proposed in this scheme. The scheme will provide flood protection in the districts of Buxar, Bhojpur and Patna in Bihar covering area to the tune of 76,200 ha and benefiting 13.83 lakh populations. The scope of work includes revetment work on river edge in a length of 4822 m and restoration of existing revetment in a length of 6417 m.

A presentation on the project proposal was made by the Secretary, WRD, Govt. of Bihar explaining the need of this scheme.

After deliberations, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

B. Uttar Pradesh

(ix) Project for Construction Bund from Guptar Ghat to Jamthara Ghat (1.150 Km) & Restoration of Harishchand Udaya Bund from Km 0.00 to Km 3.90 at Ayodhya, Uttar Pradesh (Estimated Cost Rs. 39.63 Crore @ 2019 PL, B.C Ratio 2.34:1)-

The scheme envisages for protection of city Ayodhya/Faizabad by construction of

bund in the gap portion of 1.15 km in the 10 km long paved ghats from Guptarghat to Nayaghat, along the Saryu River in Uttar Pradesh. The protection work will cover area to the tune of 70.50 ha and benefiting 0.6 lakh population. The scope of work includes works of slope pitching & launching apron and metal road construction on the bund of 1.15 km connecting Guptar Ghat to Jamthara Ghat and restoration of Harishchand Udyan Band.

A presentation on the project proposal was made by the Engineer-in-Chief, Govt of Uttar Pradesh explaining the need of this scheme.

After deliberations, the project proposal was accepted by the Advisory Committee whiles is acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

(x) Project for Anti Erosion and Flood Protection works on Left Bank pf River Ganga for Protection of villages Gauspur, Sukkhapur, Mirjapur, Simli, Rajarampur and Raghunathpur Etc. in District Bijnor, Uttar Pradesh (Estimated Cost Rs. 61.14 Crore @ 2016 PL, B.C Ratio 1.83:1) –

The scheme envisages protection of vulnerable 25 villages from erosion and flood that occurs every year in district Bijnor, Uttar Pradesh. The protection work will cover area to the tune of 5525 ha and benefiting 47950 population. The scope of work includes construction of 101 nos porcupine studs and 15 nos boulder studs at erosion sites and providing geo-tubes in 2 layers as daula at various locations.

A presentation on the project proposal was made by the Engineer-in-Chief, Govt of Uttar Pradesh explaining the need of this scheme.

Further, Additional Chief Advisor (Expenditure) raised the issue regarding the cost estimation of the project being presented in the Advisory Committee, being at 2016 price level. It was informed by the State Govt. Officials that in case of any difficulty in completing the work based on 2016 cost, the State would come back to the Advisory Committee for RCE. However, it was felt that most part of the

works may be completed as per prescribed cost of the scheme.

After deliberations, the project proposal was accepted by the Advisory Committee subject to accordance of State Finance Concurrence by Govt of Uttar Pradesh. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

(xi) Project for Dredging and Channelization work for safety of village Dube Chhapra situated in Left bank of River Ganga District Ballia, Uttar Pradesh (Estimated Cost Rs. 30.09 Crore @ 2019 PL, B.C Ratio 1.13:1) –

The scheme envisages for protection of village Dubey-Chhapra in Balia district of Uttar Pradesh, from flood by way of dredging and channelization in river bed. The work will cover area to the tune of 20,000 ha and benefiting 1.4 lakh populations. The scope of work includes dredging a channel of 60m width and about 13.4 KM length with adequate slope.

A presentation on the project proposal was made by the Engineer-in-Chief, Govt of Uttar Pradesh explaining the need of this scheme. In presentation, it was intimated that Govt. of UP is now resorting to dredging of channels in sectoral areas in limited reaches on pilot basis to study efficacy of providing alternate flow routes to river to flow and on the basis of research & performance evaluation of the dredged paths, to formulate dredging proposals for flood mitigation.

The Committee desired to know the probable timeline for which the dredged channels shall remain functional. Govt. of UP Officials informed that the study of dredging works elsewhere in the Country have shown good longevity, and the present project would not only be helpful for flood protection of the proposed area, but would also work as a pilot for similar works to be planned subsequently, in Uttar Pradesh as well as other States.

After deliberations, the project proposal was accepted by the Advisory Committee subject to accordance of State Finance Concurrence by Govt of Uttar Pradesh. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

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(xii) Revised project estimate for construction of pumping station for Drainage of Flood water from protected side near Tarkulani Regulator at KM 30.400 of Maluni Bund on Left Bank of River Rapti in District Gorakhpur, Uttar Pradesh (Estimated Cost Rs. 84.86 Crore @2017 PL, B.C. Ration 1.99:1)

The scheme with estimated cost of Rs. 38.15 crore was approved by the Advisory Committee in 130th meeting held on 30.09.2016. Subsequently, Investment clearance was accorded for Rs. 40.60 crore @ 2017 PL in 2017. The present proposal will benefit 0.32 lakh populations and area to the tune of 2838 ha. The scope of work includes construction of pumping station, installation of 11 pumps to discharge flood water from Tarkulani regulator to the downstream of the river, installation of 5 DG sets

A presentation on the project proposal was made by the Engineer-in-Chief, Govt of Uttar Pradesh explaining the need of this scheme.

The participants desired to know whether pumping out the water accumulated on account of drainage congestion, can be considered as flood or drainage proofing or protection work. It was informed by the project authorities that such an arrangement is likely to yield the desired result in providing relief from drainage congestion to the intended area, during floods.

After deliberations, it was felt that such non-conventional works may be taken as innovative steps which may be taken as a pilot project, and if the results are encouraging, then more of such works can be planned even in other flood prone states, with requisite improvements.

Additional Chief Advisor (Expenditure) raised the issue of cost increasing beyond 20%, thereby proposed formation of Revised Cost Committee. It was informed that the scheme is being considered afresh, hence this aspect may not be relevant. Further, she also voiced concern that while making calculations for BC Ratio, the pre-revised cost of Rs. 40.60 has been taken as the cost of the current scheme, as against the currently proposed cost of Rs. 84.86 crore. However, it was clarified that the present cost has only been taken for calculating the BC Ratio.



After deliberations, the project proposal was accepted by the Advisory Committee subject to accordance of State Finance Concurrence by Govt of Uttar Pradesh. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

C. Himachal Pradesh

13. Providing Flood and Erosion Protection Measures along the Right Bank of River Yamuna & its Tributaries in Tehsil Paonta Sahib, District Sirmour, Himachal Pradesh (Estimated Cost Rs. 250.46 Crore @ April, 2019 PL, B.C Ratio 1.88:1)-

It was informed that this scheme is proposed to protect an area of 480.13 ha with a population of 23,485 (Census 2011) of Sirmour district of Himachal Pradesh. The site is situated in close vicinity of Panta Sahib Town & Dark Pathar Barrage. The proposed scheme envisages providing bank protection works (29 km on right bank of Yamuna and 3 km on both side of Bata River) and embankment works (total 14.3 km on Janbu Khal) at different RDs.

A presentation on the proposal was made by the Project Authority.

A query was raised regarding evaluation of possible impact on the Uttarakhand side, for the portion of the works proposed on main Yamuna River, since Uttarakhand is on the other bank of the river. It was informed that CWPRS has conducted detailed model study on the proposal, and no such adverse impact on Uttarakhand bank of Yamuna has been reported. It was further informed that the Uttarakhand bank is having hillocks immediately on the bank itself. Also, no works are proposed across the river, thus the possibility of any adverse impact on the other bank is not apprehended.

After deliberations, the project proposal was accepted by the Advisory Committee. However, the acceptance of the proposal by Advisory Committee does not guarantee any eligibility towards release of fund under any scheme of DoWR, RD & GR.

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

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ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF MAJOR & MEDIUM IRRIGATION, FLOOD CONTROL AND MULTIPURPOSE PROJECT PROPOSALS

145th MEETING HELD ON, MAY 26TH 2020 THROUGH VIDEO CONFERENCING

List of Participants

Shri U.P. Singh, Secretary, MoWR, RD&GR

In Chair

Members of the Advisory Committee or their representatives/nominees $\mbox{S/Shri/Smt}$

1.	R. K. Jain, Chairman, Central Water Commission	Member
2.	Jagmohan Gupta, JS & FA, DoWR, RD& GR	Member
3.	Vishal Pal Singh, Deputy Secretary, Ministry of Power	Member
4.	P. C. Jiloha, Chief Engineer, HPA, CEA (Representing	Member
	Chairman, CEA)	
5.	R.A.S.Patel, Deputy Commissioner, DAC&FW	Member
	(Representing Secretary, Department of Agriculture,	
	Cooperation& Farmers Welfare	
6.	M.R.Tshering, Joint Secretary, Ministry of Tribal Affairs	Member
7.	Avinash Mishra, Adviser, WR, NITI Aayog	Member
8.	Chairman, Central Ground Water Board	Member
	(S.K. Juneja, Scientist – D, CGWB Representing)	
9	S Kerketta, Director, MoEF&CC (Representing Secretary,	Member
	Ministry of Environment & Forests & CC)	
10.	A. S. Goel, Chief Engineer, PAO, CWC	Member Secretary

Special Invitees:

DoWR, RD&GR/ MoEF&CC/ ICAR/CGWB

S/Shri

- 1. K. Vohra, Commissioner (SPR), DoWR, RD &GR
- 2. Atul Jain, Commissioner (FM), DoWR, RD &GR
- 3. Saidul Haq, Scientist-D, CGWB, New Delhi

O/o Chief Adviser (Cost)

S/Shri

1. Ms. Rachna Chopra, Additional Chief Adviser (Cost), Department of Expenditure

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Central Water Commission

S/Shri

- 1. S.K. Haldar, Member (WP&P)
- 2. R.K.Sinha, Member (RM)
- 3. R. K. Gupta, Member (D&R)
- 4. R.K. Pachauri, Chief Engineer, PPO
- 5. P. Dorjee Gyamba, Director, WP&P
- 6. Kiran Pramanik, Director PA(N) Dte
- 7. Mahesh Kumar Gupta, Deputy Director, NP Dte.
- 8. Md Amanulla, Deputy Director, Cost Appraisal (Irrigation-I) Dte.
- 9. Nitish Nitin, Assistant Director, PA(N) Dte.
- 10. Ravindra Pal Singh, Assistant Director, PA(N), CWC.

Ganga Flood Control Commission

S/Shri

- 1. M. S. Dhilon, Chairman, GFCC, Patna
- 2. C.K.L.Das, Member (C), GFCC, Patna
- 3. Ajay Kumar, Director (P&C), CFCC, Patna
- 4. Ajit Kumar, Director (MP-1), GFCC, Patna
- 5. Abhay Kumar, Director(UP), GFCC, Lucknow

Officers from the State Government of Bihar

S/Shri

- 1. Sh. Sanjeev Hans, Secretary, Water Resources Department, Patna
- 2. Sh Rajesh Kumar, Engineer-in-Chief, Water Resources Department, Patna
- 3. Sh Sanjay Ojha, Executive Engineer, Water Resources Department, Patna
- 4. Padma Kant Jha, Superintending Engineer, Liason Officer, WRD, Govt of Bihar, New Delhi
- 5. Charu Chandra Mishra, Executive engineer, WRD, New Delhi

Officers from the State Government of Uttar Pradesh

S/Shri

- 1. Sh. Ashok Kumar Singh, Engineer-in-Chief (D&P), Irrigation &Water Resources Department, Lucknow
- 2. Sh V. K. Niranjan, Chief Engineer, (Saryu Pariyojna-I), Irrigation &Water Resources Department, Ayodhya
- 3. Sh Sandeep Khare, Superintending Engineer, Irrigation &Water Resources Department, Ayodhya

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Officers from the State Government of Himachal Pradesh

S/Shri

- 1. Sh. Narinder Saini, Chief Engineer, Department of Jal Shakti, Mandi, HP
- 2. Sh Joginder Chauhan, Superintending Engineer, Department of Jal Shakti, Nahan, HP



No. T-28053/1/2020/439-69

Government of India Central Water Commission Project Appraisal Organization

Telefax: 011-29583512 Email: ceprjap@nic.in

7th Floor (S), Sewa Bhawan, R,K. Puram, New Delhi. Dated: 17/06/2020

Summary Record of Discussions of 145th Meeting of Advisory Committee of DoWR, RD & GR on Irrigation, Multipurpose and Flood Control Projects

CORRIGENDUM

The Summary Record of Discussions of the 145th Meeting of Advisory Committee of DoWR, RD & GR on Irrigation, Multipurpose and Flood Control Projects, held on 26.05.2020 through video conferencing, was circulated vide letter no. T-28053/1/2020/410-22 dated 29.5.2020.

However, due to typographical error, in the name of the Scheme at Sr. No. (xii) of the above referred Summary Record of Discussions, the chainage of Tarkulani Regulator was incorrectly mentioned as KM 30.400 of Maluni Bund on left bank of River Rapti, instead of KM 30.300.

In view of the above, against Sl. No. (xii) of the above referred Summary Record of Discussions, the name of the Scheme may be read as "Revised project estimate for construction of Pumping Station for Drainage of Flood water from protected side near Tarkulani Regulator at KM 30.300 of Maluni Bund on Left Bank of River Rapti in District Gorakhpur, Uttar Pradesh (Estimated Cost Rs. 84.86 Crore @ 2017 PL, B.C Ratio 1.99:1)".

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(Ashok S Goel) Member Secretary & Chief Engineer (PAO)

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, II Floor, New Delhi.
- 4. Secretary, Ministry of Environment & Forests & CC, 4th Floor, Prithvi Block, Indira Paryavaran, Jor Bagh, New Delhi.

Contd..2/-

Summary Record of Discussions of 145th Meeting of Advisory Committee of DoWR, RD & GR on Irrigation, Multipurpose and Flood Control Projects

CORRIGENDUM (contd. 2/-)

- 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&LR), NITI Aayog, Room No. 230, Yojana Bhawan, New Delhi.
- 12. JS&FA, DoWR, RD & GR, Room No-401, S.S. Bhawan, New Delhi.

Special Invitees:

- 1. Additional Secretary, DoWR, RD&GR.
- 2. Chairman, GFCC, Sinchai Bhawan, Patna, Bihar
- 3. Member (D&R), CWC, New Delhi.
- 4. Member (RM), CWC, New Delhi.
- 5. Member (WP&P), CWC, New Delhi.
- 6. Secretary, WRD, Sinchai Bhawan, Govt. of Bihar, Patna
- 7. Principal Secretary, WR, Govt. of Uttar Pradesh, Lucknow
- 8. Principal Secretary, WR, Govt. of Himachal Pradesh, Shimla
- 9. Engineer in Chief, Govt of U.P, Lucknow
- 10. Engineer in Chief, Govt of Bihar, Patna
- 11. Chief Engineer ,Jal Shakti Vibhag, Mandi, H.P.
- 12. Joint Secretary (RD&PP), DoWR, RD&GR.
- 13. Joint Secretary (IC&GW), DoWR, RD&GR.
- 14. Chief Advisor (Cost), Department of Expenditure, Ministry of Finance, 2nd Floor, Lok Nayak Bhawan, New Delhi.
- 15. Commissioner (FM), DoWR, RD & GR, CGO Complex Lodhi Road, New Delhi.
- 16. Commissioner (SP), DoWR, RD & GR, Shram Shakti Bhawan, New Delhi.
- 17. Chief Engineer (IMO), CWC, New Delhi.
- 18. Chief Engineer (PPO), CWC, New Delhi.

Copy for kind information to:

1. Sr. PPS to Secretary, DoWR, RD & GR, Room No. 407, Shram Shakti Bh., N. Delhi.

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