

**No: - EDA/2016-17/717/NMCG-EC Meeting**  
Ministry of Jal Shakti  
Department of Water Resources, River Development  
& Ganga Rejuvenation  
**National Mission for Clean Ganga**  
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1<sup>st</sup> Floor,  
Major Dhyan Chand National Stadium,  
India Gate, New Delhi- 110001  
Dated: 26<sup>th</sup> August, 2022

**Subject: Minutes of 44<sup>th</sup> Meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 17<sup>th</sup> August, 2022.**

Please find enclosed the minutes of 44<sup>th</sup> Meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) held on 17<sup>th</sup> August, 2022 at 03.00 PM for information and necessary action.

*Wk*  
*26/08/2022*  
**(Geoji C. Korah)**  
Section Officer

**To**

1. The Joint Secretary (PFC-I/PF-States), Department of Expenditure, Ministry of Finance, North Block, New Delhi-110001
2. The JS & FA, D/o WR, RD & GR, MoJS, Shram Shakti Bhawan, New Delhi-110001.
3. Shri Avinash Mishra, Adviser (WR&LR), NITI Aayog, Yojana Bhawan, Sansad Marg, New Delhi-110001
4. The Secretary, Department of Drinking Water & Sanitation, Uttarakhand, 43/6 Mata Mandir Road, Dharmapur, Dehradun, Uttarkhand-248001.
5. The Principal Secretary (UD), Urban Development Department (UDD), 834, Bapu Bhawan, Lucknow- 226001.
6. The Principal Secretary (UD & Housing), Urban Development and Housing Department (UDHD), Vikas Bhawan, Bailey Road, Patna, Bihar-800015.
7. The Principal Secretary (UD), Urban Development Department (UDD), 4<sup>th</sup> Floor, Project Building, Dhurwa, Ranchi- 834004.
8. The Principal Secretary (UD), Department of Municipal Affairs (DMA), Nagarayan, Sector-I, Block-DF-8, Bidhan Nagar, Kolkata-700064.
9. The Deputy Director General/ All Executive Directors of NMCG

**Copy to :**

1. PS to Hon'ble Minister for Jal Shakti
2. PPS to Secretary (WR, RD & GR)
3. The Project Director, SPMG Group 117, Indira Nagar, Dehradun-248001, Uttarakhand.
4. The Project Director, SPMG, Plot No. 18, Sector-7, Gomti Nagar, Lucknow-226010.
5. The Project Director, SPMG Group (Secretary Urban Development), Government of Bihar, Vikash Bhawan, Bailey Road, Patna, Bihar – 800001.
6. The Project Director, SPMG Group UD & HD, Project Bhawan, Dhurwa, Ranchi, Jharkhand
7. The Project Director, SPMG Group Unnayan Bhawan, KMDA, Kolkata- 700091.
8. PS to DG, NMCG- for his information

**Minutes of 44<sup>th</sup> meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) held on 17<sup>th</sup> August, 2022 at NMCG Office, Delhi**

The 44<sup>th</sup> meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) was held on 17<sup>th</sup> August, 2022 at 03.00 PM through hybrid mode (physical and video conferencing) under the Chairmanship of Director General, NMCG.

Executive Director (Admin.), NMCG welcomed the Director General, NMCG, members of Executive Committee and all officials present in the meeting.

Thereafter, the agenda items were taken up for discussion.

• **Agenda Item No. 44.1- Proposal on “Fluvial geomorphology mapping of Hindon River basin” by NEER**

Executive Director, Technical presented the agenda item. New Environment and Energy Research (NEER) made a presentation on the proposal bringing out the context and background of MoU signed between NMCG and NEER on 24<sup>th</sup> December 2021. The research proposal “*Fluvial geomorphology mapping of Hindon River basin*” with cost of ₹16,40,000 (Sixteen Lakhs and forty thousand only) is proposed for a period of 12 months. The objectives of the project are delineation of fluvial geomorphological features along the Hindon river basin, identification of decadal changes in fluvial geomorphological features, delineation of stream network and suitable recharge zones, delineation of point sources of pollutant, their input close to the confluence of the Hindon river, their GIS based analysis, architectural interventions on Sustainable River Embankment Strategies and identifying potential zones for ghat development. The possible outcome of the study would be fluvial geomorphology maps of Hindon river basin from Meerut till Gautam Budh Nagar, stream network and suitable re-charge zonation maps, temporal maps of changing fluvial geomorphology of the Hindon river basin, water quality thermal data anomaly of the region close to the confluence of Hindon River with Yamuna River at Gautam Buddha Nagar, identification of point source of input of industrial and domestic sewage discharge within the region of Gautam Buddha Nagar, mapping agricultural activity on a timeline, identifying depletion zones and strategic interventions to sustain river banks, strengthening the bank, and reducing hydrodynamic forces.

**DECISION/ RESOLUTION**

***After detailed discussions, the proposal was approved by EC with an estimated cost of Rs.15,40,000/- after allowing 50% depreciated cost of computers, scanners and similar peripherals etc provided in the estimate. There should be a very clear, comprehensive, implementable suggestions/plans for the pollution abatement and management, which can be converted to DPRs, as the outcome of the study.***

- **Agenda Item No. 44.2- Concept proposal on “Provision of services for acquisition, processing & delivery of high resolution DTM, DSM, DEM, point cloud, contour, mosaic orthorectified images, thematic layer of drain, sand mining, illegal dumping, mainly encroachment in riverbed,**

**land use/land cover map (level I, II, III), Cadastral map using airborne LiDAR & optical sensor in area of NCT Delhi and parts of Gautam Budh Nagar, Ghaziabad, Bagpat District of Uttar Pradesh, and Udham Singh Nagar, Uttarakhand.”.**

Executive Director, Technical, NMCG presented the objective of concept proposal on “*Provision of services for acquisition, processing & delivery of high resolution DTM, DSM, DEM, point cloud, contour, mosaic orthorectified images, thematic layer of drain, sand mining, illegal dumping, mainly encroachment in riverbed, land use/land cover map (level I, II, III), Cadastral map using airborne LiDAR & optical sensor in area of NCT Delhi and parts of Gautam Budh Nagar, Ghaziabad, Bagpat District of Uttar Pradesh, and Udham Singh Nagar, Uttarakhand.*” The proposal was conceptualized to identify and inventories using drone survey inputs the construction in the floodplain areas and implement the mandate of Authorities Notification of Oct'2016 towards ensuring that they remain protected and construction free. The outputs will be shared with ULBs and district authorities for ground verification through revenue records and regulation thereafter. This has also been part of directions of Hon'ble NGT in OA No 6/2012 – Manoj Mishra vs Uol and OA No 673/2018. The UAV/ Survey and remote sensing techniques shall also be used to generate various layers of datasets from drain, illegal dumping, mainly encroachment in riverbed. Expected outcomes are high resolution DTM, DSM, DEM, point cloud, contour, mosaic ortho-rectified images, thematic layer of drain, sand mining, illegal dumping, mainly encroachment in riverbed, land use/land cover map and cadastral maps. Total river corridor area for mapping is approx.1687.74 sqkm. It was clarified that the cost estimates are based on market rates for UAV drone mapping using light detection camera's. As per open market estimates, charges for such service (i.e., agency charges for aerial acquisition, data processing & delivering expected outcome) are ranging between Rs.60,000 to Rs.75,000 per square kilometer. The cost of this mapping (“Aerial Acquisition and delivery of high resolution DTM and extraction of all physical feature under River Corridor mapping: using LiDAR mounted unmanned aerial vehicle (UAV)”) is Rs.12,65,80,500/- (Rs.75000\*1687.74 kilometers) all inclusive.

**DECISION/ RESOLUTION**

- ***After detailed discussions, the concept proposal was approved by EC to carry out the mapping and study through open tendering process for the corridor mapping of the major rivers such as Yamuna River, Hindon River flowing in area of NCT Delhi and parts of Gautam Budh Nagar, Ghaziabad & Bagpat District of Uttar Pradesh. Similar studies for Bhela River, Dhela River, Kichha River, Kosi River, Nandhaur River, and Pilkhar River flowing in area of Udham Singh Nagar, Uttarakhand as per agenda are to be carried out. The cost of work discovered after competitive bidding may be got approved from Executive Committee before award of work.***

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**Agenda Item No. 44.3- Proposal on “Geo-Ganga: Space Based Mapping & Monitoring of Ganga River” by IIRS, Dehradun**

Executive Director, Technical, NMCG presented the agenda. Indian Institute of Remote Sensing, Dehradun made a detailed presentation on the research proposal "Geo-Ganga: Space Based Mapping & Monitoring of Ganga River". The research proposal was conceptualized on the basis of use of space inputs in monitoring of Ganga River & special emphasis was on the development of tools & dashboard that can be used by field level volunteers associated with NMCG. Total cost of ₹5,40,09,000 (Five Crore forty lakh nine thousand only) for the research proposal was proposed over the 36-month duration. The main objectives of this research project is to develop a geo-portal of entire Ganga basin for visualization and analysis of hydro-meteorological and other thematic parameters, to develop a geospatial solution for mapping and monitoring of river water quality in respect of few parameters, water level and solid waste dumps in the active river channel or buffer area of the selected river stretch/s and to generate flood hazard potential zones for the selected stretch using geospatial techniques. The possible outcome of the study would be to develop a Geo-portal (Geo-Ganga) to visualize and analyze the hydro-meteorological and other thematic parameters [base-map, land use-land cover, soil, streams, river discharge gauging sites, water quality sites, transport infrastructure, topography, geology, water resources projects, location STPs/ Ghats, etc.], temporal database of meteorological parameters, runoff potential, surface soil moisture, vegetation, snow cover etc. for entire basin, temporal spatial maps of river water quality for the selected stretch/s, mapping and monitoring (topography, ghats, STPs, influent streams/ drains, land use-land cover, solid waste sites, etc.) in the buffer area of the selected stretch using high resolution remote sensing data and field inputs, mobile mapping solution/App for water quality assessment and solid waste site management and visualization in web GIS portal and temporal database of river water level derived using space based altimeters, flood hazard zones, flood prone area.

### **DECISION/ RESOLUTION**

***After detailed discussions, EC decided that***

- ***overhead charges @ 10% may be waived-off and cost estimate towards satellite data/ ancillary data may be allowed only to the extent of 50% of estimated amount by emphasizing use of Indian satellite data, wherever possible and exploring possibility of getting discount on these datasets.***
- ***the team may also explore the retrieval of other water quality parameters either through remote sensing or field based analysis as R&D products.***
- ***IIRS should also try to contribute 10-20% of the project cost for implementation of the project in a collaborative mode.***
- ***based on the response of the IIRS on collaboration in the project, the proposal would be taken up in the next EC meeting.***

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- **Agenda Item No. 44.4- Proposal on "Capacity Building Programme for Leveraging of Community Resources and Appropriate Local Resources Based on Technology to Adopt Arth Ganga Model" by HESCO,**

## Dehradun

Executive Director, Technical, NMCG presented the agenda. Himalayan Environmental studies and conservation Organization (HESCO), Dehradun made presentation of the proposal bringing out the context and background of MoU signed between NMCG and HESCO in 15<sup>th</sup> July 2021. The proposal "Capacity Building Programme for Leveraging of Community Resources and Appropriate Local Resources based on Technology to Adopt Arth Ganga Model" at cost of ₹INR 5,20,38,800 (Five Crore twenty lakh thirty-eight thousand eight hundred only) is for duration of 36 months. The proposal is meant to for developing new skills created for the future need based programme of the community & to provide an alternative solution to the community which are dependent on Ganga basin through the Arth Ganga program. The objectives of the proposal are to empower local communities of the Ganga basin for their economic upliftment with ecological perceptions, to establishment of Arth Ganga Centres (AGC) and three Ganga Resource Centre (GRC) which will also function as exit points for Ganga mission too, to source the technologies and disseminate interventions which are economically and ecologically viable for the region useful to community through establishment of Arth Ganga Centre, to develop linkages with R&D and regional institutes with different disciplines in agriculture, horticulture, soil-water, bio-craft and eco-tourism related activities and to promote and initiate interface between community, scientists and local Villages. Arth Ganga Centre would act as an Institute equipped with all necessary knowledge and technology, its responsibility will be to make the linkage between GRC and other Research Institutes. It will also conduct sector-wise meetings with stakeholder especially panchayat, local media persons, Voluntary Organizations etc.

Executive Committee sought clarifications on scope of present proposal and areas of overlap with *Jalaj* concept being implemented by WII. It was clarified that *Jalaj* concept & HESCO model of community involvement and empowerment through interventions on economic aspects are complementary under overall objective of Arth Ganga. An appropriate coordination mechanism through Steering Committee will be utilized to leverage both the concepts.

## DECISION/ RESOLUTION

***After detailed discussions, the proposal was approved by EC at cost of ₹INR 5,20,38,800 (Five Crore twenty lakh thirty-eight thousand eight hundred only) with duration of 36 months.***

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- **Agenda Item No. 44.5- Conserving and sustainably managing Udhwa Lake Bird Sanctuary, Block, Rajmahal Subdivision, Sahibganj District, Jharkhand under Namami Gange Mission-II.**

Shri Manish Tiwari, Divisional Forest Officer (DFO), Sahibganj, State Forest Department (SFD), Jharkhand gave a detailed presentation on the proposal "Conserving and sustainably managing Udhwa Lake Bird Sanctuary, Sahibganj, Jharkhand." He informed the importance of this Gangetic floodplain wetland, which

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provides wintering habitat to many bird species and also lies on the path of Central Asian Flyway. There are total 146 birds species reported from the area. In addition, it also provides support to local livelihoods and existing bio-resources. Major threats in and around the wetland ecosystem are from shrinkage of habitat due to siltation, overexploitation due to fishing activities and poaching of birds, water extraction for irrigation, etc. The existing wetland ecosystem is fed by one of the braded channels of river Ganga. He also informed that the proposal has been prepared in line with the NPCA Guidelines, 2019 and Wetland Conservation Rules, 2017 of MoEF&CC.

Mr Brijesh Sikka, Senior Consultant, NMCG informed the EC that the project proposal was initially submitted by Jharkhand for Rs.5 crore with 3-year project period. However, as per TPA done by Wetlands Internationals South Asia, it was suggested for thorough planning with appropriate technical inputs of wetland expert(s) for developing a sustainable Integrated Management Plan in a period of one year in consultation of stakeholders and after carrying out baseline hydrological assessments and requisite scientific studies at a cost of Rs. 50 lakhs. The modified Management Plan will be more sustainable, beneficial in climate resilience and livelihood perspectives and will ensure implementation of conservation initiatives for meeting the objectives of floodplain management of river Ganga and *Aviral Ganga*. The recommendation of TPA was accepted by the SFD, Jharkhand. Based on the modified Management Plan, the project will be reviewed and considered for its implementation in subsequent years.

DG, NMCG desired that the SFD, Jharkhand should update about funding for the wetland from other sources to avoid duplicity. The SFD may also share information about any other wetlands in the Gangetic floodplains in Sahibganj district. Dr. Rajasekhar Ratti, Joint Director, Wetlands Division, MoEF&CC informed that no funds have been provided so far for wetland conservation of Udhwa wetland by MoEF&CC. This was also confirmed by DFO, Sahibganj. He also informed that there is one more floodplain wetland called Chidiyada Jheel in Sahibganj district.

In response to the query raised by Joint Secretary & Financial Advisor, DoWR, RD & GR regarding the cost and time frame for the project, the DFO, Sahibganj informed that during the one-year duration of the project presently under consideration, the budget of Rs. 50 lakhs will be utilized for stakeholder consultations and carrying out bathymetric studies and modifying the Integrated Management Plan, and accordingly the time duration for implementation of further activities would be spelt out, as indicated in the TPA for the project.

During discussions, the Joint Director, Wetland Division, MoEF&CC also informed about fund constraints within the Ministry for wetland projects as they have to cater to the whole country. DG, NMCG desired that information about fund allocations made by MoEF&CC for wetlands along the Ganga may be shared with NMCG.

The fund allocation and activities targeted along with deliverables under the project are as under:

Sl. No.	Project duration	Activities /Target	Cost in Lakhs

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1	One Year	Stakeholder Consultation	5
2		Baseline hydrological assessment (including bathymetric profile, channel profile and others, monthly water balance, identification of silted up areas)	25
3		Finalizing the Management Plan (including monitoring indicators and system workshop)	20
Total fund allocation (Rupees Fifty Lakhs only)			50
<i>Note: Based on the modified Integrated Management Plan, project may be considered for implementation of interventions in subsequent years.</i>			

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### **DECISION/ RESOLUTION**

***After detailed discussion, the Executive Committee (EC) approved the proposal for issuing Administrative Approval and Expenditure Sanction (AA&ES) to implement the project through the State Forest Department (SFD), Jharkhand at an estimated cost of Rs.50.0 lakhs with one year project duration.***

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- **Agenda Item No. 44.6- “Interception and Diversion (I&D) and Sewage Treatment Plant works for Supaul town”**
  - DPR - Appraised by: IIT-Roorkee
  - Project Cost Approved: **Rs 57.09 Crores** including O&M for 15 years
  - Land: Govt. land is available
  - Project component:
    - Development of a 3 STPs (STP-1: 8.9 MLD; STP-3: 1.9 MLD and STP-4: 1.1 MLD) including necessary ancillary infrastructures, UV disinfection, SCADA and online monitoring system
    - Disposal of treated effluent
    - 6 no. I&D structures for the drains
    - Gravity Sewer line of 5747 m
    - Effluent channel Disposal of treated effluent through pipeline of 900m
    - 15 years Operation & Maintenance
    - Environment Management Plan during the construction and Operation stage
  - Time: 24 Months (including bidding)
  - Financial Effect: 100% Central Sector
  - Bidding Process: DBOT Mode
  - Effluent Characteristics: As per the latest NGT’s direction on effluent standard

### **DECISION/ RESOLUTION**

***After detailed discussions with the State govt. and TPA (IIT-Roorkee), Executive Committee (EC) decided to approve the proposal for according***

**administrative approval and expenditure sanction (AA&ES) for Interception, Diversion (I&D) and Sewage Treatment Plant (STP) works for Abatement of Pollution of River Gajna (at the confluence of river Koshi a tributary of river Ganga) at Supaul town (Bihar) under Namami Gange Program at an estimated amount of Rs 57.09 Crores (including cost of O & M for 15 years – Rs 24.47 Crores) to be implemented on DBOT mode. It was also resolved that the observations of NMCG, TPA should be complied by the State Government/ Executing Agency prior to finalization of bid document/ at the time of execution and also during O & M period. It was noted that O & M of the project assets, post-commissioning for 15 years has been included in the project scope and that O & M beyond project scope i.e., after 15 years shall be the responsibility of State Government/ ULB at its own cost. SPMG confirmed that after implementing this project, no untreated drains will fall in the river Ganga from the town etc.**

**It was resolved that NoC for the land must be provided to NMCG before bidding and bids to be invited on technology-neutral basis. Further, no additional drains should be included after issuance of AA&ES. Also, the capacities of STPs to be considered as STP-1: 9 MLD, STP2: 2 MLD and STP3: 1.1 MLD by the EC.**

**It was also decided that state government will pari-pasu implement the project for utilization of treated wastewater from the project for irrigation, industrial purpose as per state policy.**

**EC decided that installation of trash arresting rack and its regular O&M at the mouth of all drains shall be made.**

**Adequate provision for handling co-treatment of septage/faecal sludge shall be made in the STP facility and shall also be made part of bid document/ project proposal for implementation.**

**The project has been considered to be funded under National Ganga Programme-Non-EAP component. State needs to submit a revised DPR, before bidding, based on Third Party Agency's recommendations complete with detailed designs and hydraulic analysis.**

**The project involves implementation of I&D and STP works of significantly small capacity (9 MLD, 2 MLD and 1.1 MLD) and clubbing of this work may be difficult with other towns due to fact that some big towns with new sewerage infrastructure works to be undertaken are not located nearby. Accordingly, EC decided that the project will be executed following DBOT mode instead of Hybrid annuity-based PPP mode.**

**EC also directed the SPMG that the tender works must be awarded within six months from the date of issue of AA&ES.**

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- **Agenda Item No. 44.7- Cost Variation due to change in Factor of Safety (FoS) for design drawing of bedding for sewerage network for 30 MLD STP Pankha Facilities in Kanpur STP project under HAM.**
  - Additional Project Cost: Rs. 7,81,85,577/- (Based on UPJN)



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- o Financial Effect: National Ganga Plan; To be met from the savings (AAES Cost vis-à-vis award cost)
  - o Reasons & Justifications for cost variation
  - o Contradiction in the Concession Agreement (CA) in respect of Factor of Safety (FOS) to be considered while designing bedding for the sewer line. The CA schedule 11 clause 5 - General Design Requirements indicates that "The concessionaire shall design the Facilities in accordance with the provisions of the IS codes, CPHEEO manual on Sewage & Sewage Treatment...". The FOS as per CPHEEO manual is 1.5. While under CA schedule 11 clause 5.9 - Bedding of sewers, FOS has been indicated as 1.1.
- a. AA&ES issued for the projects indicates designs to be in compliance with CPHEEO manual which specifies FOS of 1.5.
  - b. Since FOS value has been clearly indicated as 1.1 in RFP, it is in order to consider that concessionaire has considered the same value while quoting the bid.
  - c. As per CA the executing agency (UPJN) is to decide on need for variation. In view of CPHEEO sewerage manual being considered as the authentic reference document and improved structural safety with FOS of 1.5, UPJN recommended to adopt FOS of 1.5
  - d. The cost variation examined by Project Engineer and Executing Agency (UPJN-R) and accordingly recommended to NMCG.
  - e. Additional cost within the approved AAES cost;
  - f. EC in its 26<sup>th</sup> meeting, where additional cost variation is within the sanctioned project cost for HAM projects, the proposal can be approved by DG, NMCG. Proposal accordingly concurred by NMCG Finance wing and approved by DG, NMCG
- Bidding Process: Not applicable; The additional cost based on UPJN SOR 2017-18 to be added to the Bid Project Cost quoted by the concessionaire and to be paid as per CA defined payment schedule.

#### **DECISION/ RESOLUTION**

***After deliberations on the subject, the EC approved the additional cost variation of Rs. Rs. Rs.7,81,85,577/- in the Kanpur HAM project on account of change in sewer bedding design criteria (FOS). EC also approved in principle, that cost variations on the same ground in Unnao & Shuklaganj under Kanpur HAM Project may be approved by DG, NMCG and subject to the condition that such variations are within the overall sanctioned project cost. If the expenses are beyond the overall sanctioned project cost, then specific approval of Executive Committee shall be sought.***

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- **Agenda Item No. 44.8- Cost Variation due to change in GST at the revised rates of 18% instead of earlier rate of 12% with effect from 01/01/2022 in Howrah Bally, and Baranagar STP project under HAM.**

- o Additional Project Cost: Rs.15.85 Crore
  - o Financial Effect: National Ganga Plan
  - o Reasons & Justifications for cost variation
- a. At the time of bid submission (10<sup>th</sup> Oct 2018), the bid price included GST at the then applicable reduced GST rates of 12% as per MOF Notifications dated 22/08/2017 and 10/10/2017 where the composite supply of the works contract is for “Union territory, a local authority, a Governmental Authority or a Government Entity”
  - b. MOF vide Notification no. 22/2021-Central Tax (Rate) dated 31/12/2021 has amended the applicability of reduced rate of 12% where the composite supply of the works contract is for “Union territory or a local authority” instead of earlier “Union territory, a local authority, a Governmental Authority or a Government Entity”. As neither KMDA nor NMCG qualifies as “Union territory or a local authority, this has resulted in GST rates at the rate of 18% in accordance with MOF notification no. 11/2017-Central Tax (Rate) dated 28/06/2017 becoming applicable from 01/01/2022.
  - c. As per CA article no. 13 (Change in Law), the concessionaire may claim the benefit of and/or relief for a change in Law event subject to the Concessionaire shall be required to bear all Costs resulting from any one or more Qualifying Change in Law events, up to an aggregate amount equivalent to 0.5% of the total Bid Project Cost (Threshold Limit);
  - d. The additional cost variation in the instant case works out to be Rs. 15.85 Crore considering (i) Bid Project Cost (BPC) of Rs. 391 Crore; (ii) payment of Rs. 58.65 crore towards completion of 3 of 8 milestone completed and paid till 31/12/2021; and (iii) adjustment for 0.5% of BPC (Threshold limit to be borne by the concessionaire)
- Bidding Process: Not applicable; The Concessionaire to be advised to raise remaining invoice with revised GST of 18% on the tax exclusive BPC (i.e. after correcting for 12% GST) and adjusting threshold limit proportionally.

### **DECISION/ RESOLUTION**

***After deliberations on the subject, the EC approved the additional cost of Rs. 15.85 Crore on account of change in GST rates from 12% to 18% from 01/01/2022 in Howrah Bally Baranagar HAM Projects. EC also approved as policy decision to allow additional cost on account of GST rate revision for all other ongoing HAM projects being executed by agencies other than “Local Authority or Union Territory”. The additional applicable cost variations to be worked out by the executing agencies on case-to-case basis in accordance with the CA clause on “Change in Law” with the approval of DG, NMCG and need not be brought to EC unless further upward revision in the GST rates.***

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- **Agenda Item No. 44.9- Detailed Project Report for Riverfront Development Part F1, Badrinath, Uttarakhand**

The project involves Detailed Project Report for Riverfront Development Part F 1, Badrinath, Uttarakhand at a Project Cost of Rs. 13.18 Cr. (including 5 years O&M) and would be completed within 14 months (including bidding and awarding of project). The DPR is appraised by IIT-Roorkee, Implementing Agency is Shri Kedarnath Utthan Charitable Trust and executing agency is Public Works

Department (PWD), Uttarakhand. The Central Funding will be 100% under Clean Ganga Fund (CGF) head of NMCG.

### **DECISION/ RESOLUTION**

***After discussions, the proposal was approved by Executive Committee of NMCG at an estimated cost of Rs 13.18 Cr. (including 5 years O&M) along with the compliance and observations of NMCG and TPA to be ensured by the Executing/ Implementing Agency at the time of finalization of Bid Document with the following conditions:***

- i. EC approved the development of following infrastructure under this proposed project:***
  - a. RCC retaining wall- 170 mt on hill side and -160 mt on the promenade side***
  - b. EV track- 5mt x 175mt***
  - c. Upper Promenade – 50 mt x 3 mt***
  - d. Steps & plaza- 144sq. mt***
  - e. Landscape- 2 terraces- 390 sq.mt***
  - f. Pavilions- 1 (28.8 sq.mt)***
  - g. Toilet blocks (Male & Female)- 138 sq.mt & drinking water facility. Provision of toilet for especially abled shall be made part of the project scheme***
  - h. Shops on first floor- 138 sq.mt***
  - i. Signages***
  - j. Planter beds***
- ii. Suitable plantation and landscaping work should be undertaken***
- iii. O&M during 5 years is included in the sanctioned project scope***
- iv. Post completion of O&M period by executing agency, ULB should engage revenue generation mechanism in place for sustaining the O&M activities.***
- v. Issues pertaining to land, consultations with local authorities and observations from the State need to be addressed & resolved before tendering with necessary evidence of such consultations.***
- vi. SPMG Uttarakhand is the State Nodal Monitoring Agency for the project and funds for the projects will be routed to executing agency through SPMG UK.***
- vii. Before issuance of Tender drawings, approval from NMCG should be taken. NMCG should revert back its observation within 10 days of receipt of the drawings else submitted drawings shall be deemed approved.***
- viii. Executing Agency shall obtain NMCG approval before making any changes in the sanctioned scope.***
- ix. EC directed that strict compliance with time and cost should be ensured by Executing/ Implementing Agency.***

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- Agenda Item No. 44.10- Detailed Project Report for Riverfront Development Part G1, Badrinath, Uttarakhand**

The project involves Detailed Project Report for Riverfront Development Part G 1, Badrinath, Uttarakhand at a Project Cost of Rs. 13.93 Crores (including 5 years O&M) and would be completed within 14 months (including bidding and awarding of project). The DPR is appraised by IIT-Roorkee, Implementing Agency is Shri Kedarnath Utthan Charitable Trust and executing agency is Public Works Department (PWD), Uttarakhand. The Central Funding will be 100% under Clean Ganga Fund (CGF) head of NMCG.

### **DECISION/ RESOLUTION**

***After discussions, the proposal was approved by Executive Committee of NMCG at an estimated cost of Rs 13.93 Cr. (including 5 years O&M) along with the compliance of observations of NMCG and TPA to be ensured by the Executing/ Implementing Agency at the time of finalization of Bid Document with the following conditions:***

- i. ***EC approved the development of following infrastructure under this proposed project:***
  - a. ***RCC retaining wall- 170 mt on hill side and -175 mt on the promenade side***
  - b. ***EV track- 5mt x 163mt***
  - c. ***Upper Promenade – 50 mt x 3 mt***
  - d. ***Steps & plaza- 302 sq. mt***
  - e. ***Landscape- 2 terraces- 1060 sq.mt***
  - f. ***Pavilions- 1 (28.8 sq.mt)***
  - g. ***Toilet blocks (Male & Female)- 226 sq.mt & drinking water facility. Provision of toilet for especially abled shall be made part of the project scheme***
  - h. ***Signages***
  - i. ***Planter beds***
- ii. ***Suitable plantation and landscaping work should be undertaken***
- iii. ***O&M during 5 years is included in the sanctioned project scope***
- iv. ***Post completion of O&M period by executing agency, ULB should engage revenue generation mechanism in place for sustaining the O&M activities.***
- v. ***Issues pertaining to land, consultations with local authorities and observations from the State need to be addressed & resolved before tendering with necessary evidence of such consultations.***
- vi. ***SPMG Uttarakhand is the State Nodal Monitoring Agency for the project and funds for the projects will be routed to executing agency through SPMG UK.***
- vii. ***Before issuance of Tender drawings, approval from NMCG should be taken. NMCG should revert back its observation within 10 days of receipt of the drawings else submitted drawings shall be deemed approved.***
- viii. ***Executing Agency shall obtain NMCG approval before making any changes in the sanctioned scope.***
- ix. ***EC directed that strict compliance with time and cost should be ensured by Executing/ Implementing Agency.***

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- **Agenda Item No. 44.11- Jalaj: Connecting River and People to Realize**

### **Arth Ganga**

The project involves Jalaj: Connecting River and People to realize Arth Ganga at a Project Cost of Rs. 18,88,70,000/- and would be completed within 2 years. The Implementing Agency is Wildlife Institute of India (WII), Dehradun, Uttarakhand.

The concept of Jalaj was presented to the EC by Dr. Ruchi Badola, Scientist G, Wildlife Institute of India, Dehradun. She explained that the objective of Jalaj is primarily to establish symbiotic linkages between rivers and people. The project is for setting up 75 Jalaj in the Ganga Basin under Arth Ganga for linking conservation and livelihoods, and to create social awareness of aquatic biodiversity conservation. The project will engage the local communities.

The Jalaj will be developed in accordance with local skill sets, raw material, market and demands, hence will have site-specific models such as knowledge corners, livelihood training and sale points, ecotourism-based safari boats, nurseries, health and wellness centers, sewing and stitching centers, local produce-based food processing units and sale points etc. The model will have facilities for dissemination of the information on aquatic biodiversity conservation, livelihood training and sale centers for the products developed by trained Ganga Praharis and community members.

The Executive Committee enquired about the timeline to make the project fully functional at 75 locations. It was informed that out of 75 sites, 26 sites were launched on 16<sup>th</sup> August, 2022 and the remaining sites will be launched in phases. Another set of Jalaj will be ready to be launched on 2<sup>nd</sup> October 2022. For fully operationalizing the 75 Jalaj, about six months will be required.

The Executive Committee also enquired about the basis adopted for manpower costing under the Project. It was explained that WII's norms, which are based on DST norms for engagement of human resources, have been taken. It was also stated that there will be a steering committee to guide the implementation of Jalaj with representation from NMCG, IIML, WII and special invitees from DGCs and SMCGs. While the cost of all manpower has been taken for two years, the Project Associates at WII may have to be continued for five years.

### **DECISION/ RESOLUTION**

***After discussions, the proposal was approved by Executive Committee of NMCG at a cost of Rs. 18,88,70,000/- for a period of two years.***

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- **Agenda Item No. 44.12- "Interception and Diversion (I&D) and Sewage Treatment Plant works for Ramnagar town, Bihar"**
  - DPR - Appraised by: NIT - Patna
  - Project Cost Approved: **Rs 56.97 Crores** including O&M for 15 years
  - Land: Needs to be acquired. NoC to be submitted by State before bidding

- Project component:
  - Interception & Diversion drains:
    - 1.95 Km interception drain before aqueduct;
    - 2.1 Km interception drain after aqueduct
  - Interception of 37 drains (7 major and 30 minor drains)
  - Outfall drain of STP before & after aqueduct
  - 2 STPs of 4.5 MLD capacity each
  - Screen works in existing drains
  - 15 years Operation & Maintenance
  - Environment Management Plan during the construction and Operation stage
- Completion Time: 24 Months (including bidding)
- Financial Effect: 100% Central Sector
- Bidding Process: DBOT Mode

## **DECISION/ RESOLUTION**

***After detailed discussions with the State Govt. and TPA (NIT-Patna), Executive Committee (EC) approved the proposal for according administrative approval and expenditure sanction (AA&ES) for Interception, Diversion (I&D) and Sewage Treatment Plant (STP) works for Abatement of Pollution of River Ramrekha (One of the identified polluted stretch among the 351 polluted river stretched in the country as declared by CPCB) at Ramnagar/Harinagar town (Bihar) under Namami Gange Program at an estimated amount of Rs 56.97 Crores (including cost of O & M for 15 years – Rs 24.98 Crores) to be implemented on DBOT mode. It was also resolved that the observations of NMCG, TPA should be complied by the State Government/ Executing Agency prior to finalization of bid document/ at the time of execution and also during O & M period. It was noted that O & M of the project assets, post-commissioning for 15 years has been included in the project scope and O & M beyond project scope i.e., after 15 years shall be the responsibility of State Government/ ULB at its own cost. SPMG confirmed that after implementing this project, no untreated drains will fall in the river Ganga from the town etc.***

***It was resolved that NoC for the land must be provided to NMCG before bidding and bids to be invited on technology neutral basis. Further, no additional drains should be included after issuance of AA&ES.***

***It was also decided that state government will pari-pasu implement the project for utilization of treated wastewater from the project for irrigation, industrial purpose as per its policy.***

***EC decided that installation of trash arresting rack and its regular O&M at the mouth of all drains.***

***Adequate provision for handling co-treatment of septage/faecal sludge shall be made in the STP facility and shall also be made part of bid document/ project proposal for implementation.***

***The project has been considered to be funded under National Ganga***

***Programme-Non-EAP component. State needs to submit a revised DPR, before bidding, based on Third Party Agency's recommendations complete with detailed designs and hydraulic analysis.***

***The project involves implementation of I&D and STP works of significantly small capacity (4.5 MLD) and clubbing of this work may be difficult with other towns due to fact that some big towns with new sewerage infrastructure works to be undertaken are not located nearby. Accordingly, EC decided that the project will be executed following DBOT mode instead of Hybrid annuity-based PPP mode.***

***EC also directed the SPMG that the tender works must be awarded within six months from the date of issue of AA&ES.***

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• **Agenda Item No. 44.13- Detailed Project Report for Landscape Development of Kalindi Kunj**

The project involves Detailed Project Report for Landscape Development of Kalindi Kunj, New Delhi at a Project Cost of **Rs. 2.38 Cr** (including 6 months O&M) and would be completed within 12 months. The DPR is appraised by Jamia Milia Islamia and project is prepared by INTACH. The Central Funding will be 100% from Ghat Works & Beautification of River Fronts head of NMCG.

**DECISION/ RESOLUTION**

***After discussions, EC directed that the project needs more detailing in respect of the project scope, current site conditions, flow in the drain, land ownership and detailed cost estimate. Further, a site verification may also be made and comments of Dr. C. R. babu may also be sought. EC also directed that the project may be placed before next EC duly complying the observations given.***

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• **Agenda Item No. 44.14- DPR for Installation of New Penstock Gates and Refurbishment of Existing Gates including O&M along the Bank (Eastern & Western) of Beliaghata Circular Canal, Kolkata, in West Bengal State, Under Namami Gange Program.**

- **Major components: -**
- Supply and Installation of New Sluice Gates along the Bank (Eastern & Western) of Beliaghata Circular Canal – 5 nos.
- Refurbishment of Existing Sluice Gates (Penstock Gates) along the Bank (Eastern & Western) of Beliaghata Circular Canal – 28 nos.
- Operation and Maintenance for Sluice Gates (Penstock Gates) along the Bank (Eastern & Western) of Beliaghata Circular Canal – 10 years
- Financial Effect: Central Share as 100% of project cost
- Project Status: Design, Build, Operate and Transfer (DBOT)
- Completion period – 12 Months

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The Kolkata city's sewer system is a combined system, the storm water is discharged into the Beliaghata Canal by arrangements of Sluice Gates (Penstock Gates), which are operated during monsoon. There are 26 (twenty-six) nos. outfalls along Beliaghata Circular Canal. These penstock gates are either damaged or partially defunct. IIT-Roorkee, TPA agency has done the joint inspection with KMC/SMPG officials and accordingly appraised the DPR technically and financially. and recommended the cost of Rs. 7.25 Cr. including 10 years O&M.

### **DECISION/ RESOLUTION**

***After discussions, the proposal was approved by Executive Committee of NMCG for according administrative approval and expenditure sanction (AA&ES) for DPR for Installation of New Penstock/construction of I&D structures Gates and Refurbishment of Existing Gates/ I&D structures along the Bank (Eastern & Western) of Beliaghata Circular Canal, Kolkata, in West Bengal under Namami Gange Program for an estimated amount of Rs 4.23 Crores including 18% GST under DBOT mode.***

***EC has clarified that the operation & maintenance (O&M) of gates is the primary responsibility of state government and state is already operating the existing gates, therefore NMCG may not fund the O&M of this project. Thus, EC has decided that the cost of O&M of this project i.e., Rs. 3.03 Cr. may be funded by the State from its own resources.***

***It was also decided that the observations of NMCG, TPA would be complied with by the State Government/ Executing Agency at the time of finalization of bid document/ at the time of execution and during O&M. The project has been considered to be funded under National Ganga Plan (NGP)- Component Non-EAP Component of Namami Gange Program. The State Government should ensure the availability of land in their possession before awarding the works. State need to submit a revised DPR, before bidding, incorporating Third Party Agency's recommendations, if applicable. NMCG logo and name to be inscribed at strategic locations.***

***If required, Executing Agency shall obtain NMCG prior approval before making any changes in the sanctioned scope.***

***EC has clarified that cost escalation due to change of land and delay in project shall not be borne by NMCG. Executing agency/State must complete the work within stipulated time. EC also directed to Executing agency/State that the tender works may be awarded within four months from the date of issue of AA&ES.***

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- **Agenda Item No. 44.15- Sewerage Scheme (I&D and STP Works for balance drains) at Mathura, Uttar Pradesh.**
  - DPR appraised by Jamia Millia Islamia University, New Delhi



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- Project Cost: Rs 282.42 Crores including O&M for 15 years (Capital Cost - Rs. 152.02 crore; O&M Cost - Rs. 130.40 crore)
- Major components: -
- I&D structures – 04 nos.
- I&D network laying- 1.97 Km
- Rising main- 9.29 Km
- IPS- 02 no.
- MPS- 01 no.
- Construction of new STP- 60 MLD capacity
- Operation & Maintenance for 15 years
- Financial Effect: Central Share as 100% of project cost i.e., Rs. 282.42 Crores
- Project Status: Hybrid Annuity Based PPP mode (HAM)
- Completion period – 24 Months

*The proposal was placed before Executive Committee (EC) for according the approval to proposed I&D and STP Works for balance drains at Mathura at an estimated cost of Rs. 282.42 crore. The project shall help in abating the pollution in river Yamuna.*

Executive Committee (EC) observed and instructed that new GST may be calculated as per applicable norms has to be followed and accordingly the project cost has been revised by considering GST @ 18%.

### **DECISION/ RESOLUTION**

***After detailed discussions, Executive Committee (EC) approved the proposal for according administrative approval and expenditure sanction (AA&ES) for Interception & Diversion (I&D) and Sewage Treatment Plant works for balance drains at Mathura, Uttar Pradesh with O&M for 15 years under Namami Gange Program for an estimated amount of Rs 292.56 Crores (Capital Cost - Rs. 159.46 crore; O&M Cost - Rs. 133.10 crore) under Hybrid Annuity Based PPP mode (HAM) considering GST @ 18%.***

***It was also decided that the observations of NMCG, TPA would be complied with by the State Government/ Executing Agency at the time of finalization of bid document/ at the time of execution and during O&M. The cost towards O&M of the project assets, post commissioning for 15 years has been included in the project scope. O&M beyond project scope i.e., after 15 years shall be the responsibility of State Government/ ULB at its own cost. It is also proposed that as the Central Govt is giving funding for O&M of the sewerage assets for 15 years, the tax should be collected regularly as usual by ULB and kept in a corpus fund, which should be used by ULB for O&M of all these assets after 15 years exclusively. The project has been considered to be funded under National Ganga Plan (NGP) – Non-EAP Component of Namami Gange Program.***

***The State Government should ensure the availability of land in their possession before awarding the works. State needs to submit a revised DPR, before bidding, incorporating Third Party Agency's recommendations.***

***Executing Agency shall obtain NMCG approval before making any changes in the sanctioned scope.***

***EC has clarified that cost escalation due to change of land and delay in project completion shall not be borne by NMCG. Executing agency/SMCG-UP must complete the work within stipulated time. EC also directed the Executing agency/SMCG-UP that the tender works must be awarded within six months from the date of issue of AA&ES.***

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- **Agenda Item No. 44.16- Interception & Diversion (I&D) and STP works for Muni Ki Reti Dhalwala (8.3mld STP), Neelkanth Mahadev (1.5mld STP), Jonk Swargashram (3mld STP), at Rishikesh, Uttarakhand**
  - DPR appraised by Jamia Millia Islamia University, New Delhi.
  - Project Cost: Rs 90.90 Crores including O&M for 15 years (Capital Cost - Rs. 52.90 Crore; O&M Cost - Rs. 38.00 Crore) including GST@12%.
- Major Components: -

#### **A. Muni Ki Reti – Dhalwala:**

- I&D works of Vatika Drain - 01 No.
- Sewer line DI K-7 (200mm-500mm) -965 Mtr.
- House & Commercial Service Connections - 2445 Nos.
- House Connecting Chamber - 1255 Nos.
- CIPP Lining Works – 1540 Mtr.
- 8.0 MLD STP at Chorpani - 01 No.
- 300 KLD STP (based on Johkasou Technology) - 01 No.

#### **B. Jonk - Swargashram:**

- 3.0 MLD STP - 01 No.
- SPS (7.8 MLD) - 01 Nos.
- Rising main DI K - 9 – 110Mtr.

#### **C. Neelkanth Mahadev:**

- 1.5 MLD STP – 01 No.
- Sewer line DI K -7 (Dia 200 to 250 mm.) – 1960 Mtr.

#### **D. Operation & Maintenance (O&M) for I&D & STP – 15 Years.**

- Financial Effect: Central Share as 100% of project cost i.e., Rs. 90.90 Crores
- Bidding Process: Design, Build, Operate and Transfer (DBOT)
- Completion period – 24 Months (excluding bidding period).

The proposal was placed before Executive Committee (EC) for according the approval to proposed Interception & Diversion (I&D) and STP works for Muni Ki Reti Dhalwala (8.0 + 0.3 MLD STP), Neelkanth Mahadev (1.5 MLD STP), Jonk - Swargashram (3.0 MLD STP) at Rishikesh, Uttarakhand at an estimated cost of Rs. 90.90 crore. The project shall help in abating the pollution in river Ganga.

***It was mentioned that new GST may be calculated as per applicable norms and accordingly the project cost has been revised by considering GST @ 18%.***

### **DECISION/ RESOLUTION**

***After detailed discussions, Executive Committee (EC) approved the proposal for according administrative approval and expenditure sanction (AA&ES) for DPR for Interception & Diversion (I&D) and Sewage Treatment Plant (STP) works for Muni Ki Reti Dhalwala (8.0 + 0.3 MLD STP), Neelkanth Mahadev (1.5 MLD STP), Jonk Swargashram (3.0 MLD STP) in Rishikesh area with O&M for 15 years under Namami Gange Program for an estimated amount of Rs 94.06 Crores (Capital Cost - Rs. 55.12 Crore; O&M Cost - Rs. 38.94 Crore) under DBOT mode considering GST @ 18%.***

***It was also decided that the observations of NMCG, TPA would be complied with by the State Government/ Executing Agency at the time of finalization of bid document/ at the time of execution and during O&M. The cost towards O&M of the project assets, post commissioning for 15 years has been included in the project scope. O&M beyond project scope i.e., after 15 years shall be the responsibility of State Government/ ULB at its own cost. It is also proposed that as the Central Govt is giving funding for O&M of the sewerage assets for 15 years, the tax should be collected regularly as usual by ULB and kept in a corpus fund, which should be used by ULB for O&M of all these assets after 15 years exclusively.***

***The sanctioned cost of the project will be borne from the 'National Ganga Plan - Non-EAP budget head of Namami Gange Mission –II, and expenditure incurred will be booked under the component "Nirmal Ganga- Infrastructure Development and Asset Creation- Sewage Treatment Plants (STP)- DBOT projects."***

***The State Government should ensure the availability of land in their possession before awarding the works. State needs to submit a revised DPR, before bidding, incorporating Third Party Agency's recommendations (if applicable). Executing Agency shall obtain NMCG approval before making any changes in the sanctioned scope.***

***EC has clarified that any cost escalation or time overrun will be brought to the notice of NMCG. Decision of cost overrun and time overrun will be granted based upon discussion in EC of NMCG. Cost overrun, attributable to State Government will be borne by the State Government concerned. Executing agency/SPMG must complete the work within stipulated time.***

***Since project being in a zone is vulnerable to natural disaster, it is directed that the State Government shall explore a suitable insurance cover for the project and cost towards insurance premium shall be borne by the State Government.***

***State Government need to ensure the compliance of water quality as well as***

*other environmental norms (such as compliance with prescribed noise level etc.) in respective STP area shall be assessed upfront and suitably addressed during the design stage.*

*In addition, EC desired that state Government should pari-passu implement the project for reuse of 20% treated wastewater for agriculture & industrial purpose. For this purpose, state government should adopt a policy document and endeavour & implement scheme for reuse treated wastewater accordingly.*

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• **Agenda Item No. 44.17 (Table Agenda)- Extension of Nath Baba Ghat at Buxar, Bihar**

The project involves Extension work of existing Nath Baba Ghat at Buxur, Biharat a Project Cost of Rs. 29.80 Lakhs and would be completed within 6 months. The DPR is appraised by NIT, Patna and executing agency is NBCC. The Central Funding will be 100% under National Ganga Plan (NGP) head of NMCG

**DECISION/ RESOLUTION**

*After discussions, the proposal was approved by Executive Committee of NMCG at an estimated cost of Rs 29.80 lakhs along with the compliance and observations of NMCG and TPA to be ensured by NBCC at the time of finalization of Bid Document with the following conditions:*

- i. *Extension of existing Nath Baba Ghat at Buxar 10 mt wide steps, extension of existing platform access to newly constructed ghat*
- ii. *Issues pertaining to land, consultations with local authorities and observations from the State need to be addressed & resolved before tendering with necessary evidence of such consultations.*
- iii. *SPMG Bihar is the State Nodal Monitoring Agency for the project*
- iv. *Before issuance of GFC drawings, approval from NMCG should be taken. NMCG should revert back its observation within 10 days of receipt of the drawings else submitted drawings shall be deemed approved.*
- v. *Executing Agency shall obtain NMCG approval before making any changes in the sanctioned scope.*
- vi. *EC directed that strict compliance with time and cost should be ensured by Executing Agency.*

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• **Agenda Item No. 44.18 (Table Agenda)- Revised DPR for construction of new 65 MLD STP at Garden Reach and other allied works at Kolkata, West Bengal State, Under Namami Gange Program.**

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A project for rehabilitation of existing STPs at Garden Reach (57 MLD) & Keorapukur (47 MLD), Kolkata town was approved by NMCG in its 9<sup>th</sup> EC meeting held on 20th February 2018 at an estimated cost of Rs. 165.16 Crores. The Administrative Approval & Expenditure Sanction (AA&ES) for the project was issued on 5th March 2018, the bidding mode of the project was Hybrid Annuity mode PPP basis. The project could not be awarded because bidders were opined that existing STPs have almost outlived its life and no bidder was confident about its further O&M of 15 years. The existing Garden Reach STP was originally designed for 47.5 MLD flow and constructed in the year 1997. Further it was augmented to 57.0 MLD flow in the year 2011. But the plant is not functioning properly at present flow condition and the treated effluent parameters are not satisfying the latest NGT guidelines.

Accordingly, state has revised the DPR with revised scope for construction of new STP 65 MLD capacity at Garden Reach, Kolkata and the works of Keorapukur site may be dealt separately in separate DPR.

The revised DPR was forwarded to Jamia-Milia Islamia University, New Delhi for third Party appraisal. University has appraised the DPR technically and financially and recommended the cost of Rs. 279.07 Crs with O&M of 15 years.

- **DPR appraised by Jamia-Milia Islamia University, New Delhi**
- Financial Effect: Central Share as 100% of project cost
- Project Status: Hybrid Annuity based PPP basis (HAM)
- Completion period – 24 Months
- **Major components: -**
- Construction of a new STP – 65 MLD capacity at the existing STP premises
- Construction/repair of approach road to the STP (720 m)
- Construction of the force main - 2000 m
- Upgradation/ repair of SPSs (8 Nos.) civil and E & M work
- Operation & Maintenance for 15 years

The original sanction Pr-12013/15/2018-Tech Const. NMCG dated 5<sup>th</sup> March 2018 has been withdrawn.

Executive Committee (EC) observed and instructed that new GST may be calculated as per applicable norms has to be followed and accordingly the project cost has been revised by considering GST @ 18%.

### **DECISION/ RESOLUTION**

***After detailed discussions Executive Committee (EC) approved the proposal for according administrative approval and expenditure sanction (AA&ES) for DPR for construction of 65 MLD Sewerage Treatment Plant at Garden Reach, Kolkata Municipality, in West-Bengal under Namami Gange Program for an estimated amount of Rs 289.02 Crores (including cost of O & M for 15 years – Rs 149.11 Crores) under HAM mode. EC has decided that Approach Road construction/repair cost of Rs.4 Crs to be met by KMC centage charges/state sector.***

***It was also decided that the observations of NMCG, TPA would be complied with by the State Government/ Executing Agency at the time of finalization of bid document/ at the time of execution and during O&M. The project has been considered to be funded under National Ganga Plan (NGP)-Component Non-EAP Component of Namami Gange Program. The State Government should ensure the availability of land in their possession before awarding the works. State needs to submit a revised DPR, before bidding, incorporating Third Party Agency's recommendations. NMCG logo and name to be inscribed at strategic locations.***

***If required, Executing Agency shall obtain NMCG approval before making any changes in the sanctioned scope.***

***EC has clarified that cost escalation due to change of land and delay in project shall not be borne by NMCG. Executing agency/SPMG must complete the work within stipulated time. EC also directed to Executing agency/SPMG that the tender works may be awarded within six months from the date of issue of AA&ES.***

***EC has directed that the scope of upgradation/rehabilitation should be clear in tender for avoiding the delay in tendering process.***

***SPMG confirmed that after implementing of this project, no untreated drains will fall in the river Ganga from the municipality etc.***

***In addition, EC decided that installation of trash arresting rack and its regular O&M at the mouth of all drains and adequate provision for handling septage in the STP facility may also be made part of project proposal for implementation.***

***EC desired that state Government should pari-pasu implement the project for reuse of treated wastewater for agriculture & industrial purpose. For this purpose, state government should adopt a policy document and endeavor & implement scheme for reuse treated wastewater accordingly.***

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- **Agenda Item No. 44.19 (Table Agenda)- Cost revision for “Upgradation of 2.15 MLD Common Effluent Treatment Plant to 2.6 MLD with ZLD system located at Unnao Industrial Area, Unnao, Unnao-District, Uttar Pradesh” Project.**

**Sanctioned Project Cost:** Rs. 67.68 Crores including PE charges and third-party inspection (TPI) charges excluding taxes. The Capital Cost of CETP: Rs. 63.25 Crores (excluding taxes).

**Revised Project Cost: Rs.107.21 Crores** including PE charges and third-party inspection (TPI) charges but excluding taxes. The Capital Cost of CETP: **Rs. 102.78 Crores (excluding taxes).**

Executive Committee (EC) was informed that the project of upgradation of 2.15 to 2.6 MLD CETP was sanctioned in 28<sup>th</sup> Executive Committee meeting followed by its administrative approval and expenditure sanction vide letter no. T-12/2017-18/268/NMCG/Unnao dated 22<sup>nd</sup> June 2022 at an estimated cost of Rs. 67.68

crores (excluding taxes). Accordingly, Unnao Tanneries Pollution Control Company (UTPCC), an existing Special Purpose Vehicle, has called for tenders, wherein 5 bids were received. The same have been evaluated by Bid Evaluation Committee and recommended for award of the project work to L1 bidder based on the detailed analysis of the project cost and approval of competent authority. The lowest bid cost of the project is Rs.39.53 crores higher than the sanctioned cost.

EC enquired about the reasons for higher bid quote w.r.t sanctioned cost put to bid as well as TPA recommended cost. It was informed that DPR of 2.6 MLD CETP project was prepared based on the 2017-18 SoR rates, appraised and recommended by both NEERI, Nagpur & Jamia Millia Islamia University, New Delhi in June 2020 and the bidding process was completed in Oct'2021. The price index of various materials has also been increased by a factor of two as per the market trends, however NMCG has considered it as 15% hike. Further, this project titled "up-gradation of 2.15 to 2.6 MLD CETP" requires almost whole existing plant needs to be reconstructed as per new increased capacity therefore the cost is increased as per new CETP construction cost. Furthermore, a 200 KLD ZLD based pilot project was sanctioned for Jajmau in Feb 2020 wherein the cost of the project is Rs. 19.89 crores. Thus, the capacity increase in proposed CETP is 500 KLD i.e., the increase in cost will be around Rs.45 crores.

Further, in case of CETP, O&M cost is highly governed by consumption of chemicals. Tannery CETP with ZLD involves consumption of lot of chemicals and thus O&M cost is high. Cost of treatment of L1 bidder in tannery ZLD CETP is only Rs.113 per KL, which is acceptable give the cost in current market scenario. Committee was informed that the project forms part of Hon'ble NGT judgement dated July'2017 in OA No 200/2014 in matter of M.C Mehta Vs Union of India. The Committee was also informed that in present proposal, 75% of capital cost of the proposal is to be funded under Namami Gange programme while 25% cost will be borne by UTPCC (SPV) as per Polluters Pay principle. The revised cost placed before EC is exclusive of taxes and taxes will be paid separately in the same ratio by NMCG and UTPCC as per actual.

### **DECISION/ RESOLUTION**

***After detailed discussions and due deliberations on all aspects including financial models of industrial projects under financial assistance of Gol schemes, the 2.6 MLD CETP up-gradation project at an estimated cost of Rs. 102.78 Crores was approved, subject to following conditions.***

- 1. Total cost of the project will be Rs 107.21 Crores without GST. 75% of capital cost of the proposal is to be funded under Namami Gange programme while 25% cost will be borne by UTPCC (SPV) as per original arrangements following Polluters Pay principle. Thus, share of NMCG and UTPCC is Rs.77.085 crore and Rs.25.695 crore respectively.***
- 2. SPV will not bear the charges for Project Engineer (PE) & TPI as PE & TPI works on behalf of NMCG and thus the charges for such services are to be borne by NMCG only.***
- 3. All other conditions and cost of Project Engineer and Third-Party Appraisal charges will be considered as per the existing sanctioned***

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***cost and AA &ES.***

4. ***The validity of AA&ES will be extended for further 30 months.***

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The meeting ended with vote of thanks to the chair.