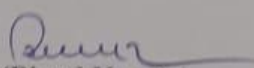


No: - EDA/2016-17/717/NMCG-EC Meeting
Ministry of Jal Shakti
Department of Water Resources, River Development
& Ganga Rejuvenation
National Mission for Clean Ganga

1st Floor,
Major Dhyan Chand National Stadium,
India Gate, New Delhi- 110001
Dated: -20th May, 2020

Subject : Minutes of 28th Meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 12th May, 2020.

Please find enclosed the minutes of 28th Meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 12th May, 2020 at 11.00 AM through Video Conferencing for information and necessary action.


(Binod Kumar)
Director (C)

To

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

Copy to :

1. Project Director, SPMG Group 117, Indira Nagar, Dehradun-248001, Uttarakhand.
2. Project Director, SPMG, Plot No. 18, Sector-7, Gomti Nagar, Lucknow-226010.
3. Project Director, SPMG Group (Secretary Urban Development), Government of Bihar, Vikash Bhawan, Bailey Road, Patna, Bihar – 800001.
4. Project Director, SPMG Group Urban Development & Housing Department, Room no. 403, 4th Floor, Project Bhawan, Dhurwa, Ranchi, Jharkhand-834004.
5. Project Director, SPMG Group Unnayan Bhawan', 3rd Floor, DJ-11, Sector-II, Block-A, KMDA, Kolkata- 700091.
6. PS to DG, NMCG- for his information

Minutes of 28th meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) held on 12th May, 2020 at NMCG Office, Delhi

The 28th meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) was held on 12th May, 2020 at 11.00 AM through Video Conferencing under the Chairmanship of Director General (DG), NMCG.

Director General, NMCG welcomed the members of EC to meeting and briefed them about action taken during lockdown. The work has started in 11 locations in UP, a review meeting with Uttarakhand CM was conducted by Hon'ble Minister for Jal Shakti on 11th May, 2020. DG, NMCG requested MD, UP Jal Nigam to make presentation on first agenda item of Revised AA&ES of Mirzapur I&D and STP work.

Agenda Item No. 28.1- Revised proposal for the project “Interception & diversion and STP at Mirzapur” in Uttar Pradesh under Namami Gange

- Proposal appraised by: HRED-IIT Roorkee
- Project Cost: RS 129.08 Crore (Capital works Rs 56.02 Crore; 15 years O&M Cost of Rs 73.06 Crore) Plus GST, as applicable
- Funding : 100% from National Ganga Plan.
- Major Project Components:
 - ✓ Drain interception – 9 Nos. new, 6 Nos. rehabilitation
 - ✓ Interceptor Sewer – 2.07 Km
 - ✓ Sewage Treatment Plant – 2 Nos. (8.5 MLD each at zone 1 & zone 2)
 - ✓ STP (Constructed Wetland) – 1 no. for Chorwa Nala (1 MLD)
 - ✓ Main Pumping Station – 1 No. in zone 1
 - ✓ Lift Station – 1 No. at Ghoreshaheed
 - ✓ Effluent Pumping Station – 1 No. in zone 2
 - ✓ Rising Main to Bisunderpur STP – 75 m (500 mm dia, DI-K9)
 - ✓ Rising Main from Lift Station – 445 m (300 mm dia, DI-K9)
 - ✓ Rehabilitation / augmentation of existing pumping stations at Chetganj and Kachahari
 - ✓ Rehabilitation of existing 14 MLD STP at Pakka Pokhra
 - ✓ Treated Effluent Conduit – 400 m (Bisunderpur)
 - ✓ Treated Effluent Rising Main – 2.0 Km to irrigation canal
 - ✓ Operation & Maintenance – 15 years post commissioning for entire infrastructure created and upgraded & renovated in the project.
- Completion time: 2 years including bidding period
- Bidding Process: Technology neutral open bidding

DECISION :

The proposal was placed before Executive Committee (EC) for according the approval for the revised estimated cost of Rs 129.08 Crore (Capital works Rs 56.02 Crore; 15 years O&M Cost of Rs 73.06 Crore) Plus GST, as applicable. The Revision has been sought on account of unsuccessful bidding (thrice), change in scope of the project due to inclusion of rehabilitation and O&M of existing STP and associated infrastructure, revised discharge standards, price escalation etc.

The EC expressed extreme displeasure with EA & State authorities on the repeated failure of the bidding process since 2017 and directed to take necessary precautionary measures in future for expeditious bidding process. It was also noted that it takes lot of time to ground the projects, which should be done normally in 3-4 months. After detailed discussion and on almost delay in bidding process & significant changes in the scope of the project, EC resolved to

- a) Approve the cancellation of the original Approval and Expenditure Sanction (AA&ES) dated 14/11/2017.*
- b) Approve the proposal for according fresh Administrative Approval and Expenditure Sanction (AA&ES) for “Interception & Diversion and STP works at Mirzapur”, Uttar Pradesh Under Namami Gange Program for an estimated amount of Rs 129.08 Crore (Capital works Rs 56.02 Crore; 15 years O&M Cost of Rs 73.06 Crore) Plus applicable GST to be funded from National Ganga Plan (NGP) and implemented on technology neutral open bidding on Hybrid Annuity based PPP model.*

It was also resolved that NIT and tender document should be ready in 7 days and this project would be clubbed with Gazipur project for bidding. It was further resolved that the observations of NMCG, TPA should be complied 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. The State Government should ensure the availability of land in their possession before bidding for the project and conclude bidding process expeditiously else NMCG may withdraw the sanction and financial support and state would need to complete the project at its own cost.

Agenda Item No. 28.2- Fish Stock Enhancement Including Hilsa and Livelihood Improvement for Sustainable Fisheries and Conservation in River Ganga.

Director, ICAR-CIFRI presented the project proposal “Fish stock enhancement including Hilsa and livelihood improvement for sustainable fisheries and conservation in river Ganga”.

It is to be noted that ICAR-CIFRI is already implementing a project “Assessment of Fish and Fisheries of the Ganga River System for developing suitable conservation and restoration

plan” funded by NMCG, which will be completed by August 2020. Looking at the success of the above project and the further requirement of fish conservation in river Ganga ICAR-CIFRI has proposed the second phase of the project work with following major components.

1. Enhancement of depleted fish stock through captive breeding of indigenous stock and ranching programme at the selected sites in river Ganga.
2. Hilsa fisheries improvement in the middle stretch (Prayagraj to Farakka) of river Ganga through brood fish release and captive broodstock development.
3. Community participation and awareness programme on the fish conservation in the entire stretch of river Ganga for improving livelihood of the poor fishers.

DECISION :

After detailed discussion, Executive Committee (EC) has agreed in principle to approve the proposal “Fish stock enhancement including Hilsa and livelihood improvement for sustainable fisheries and conservation in river Ganga” submitted by ICAR-CIFRI, Barrackpore, West Bengal. It was also decided the the cost of project along with detailing of the scopes of project will be reviewed by DDG and ED (F) in consultation with Director, CIFRI.

The EC suggested that ICAR-CIFRI need to include other higher aquatic vertebrates in particular river dolphin in their awareness generation component along with fishery among fisherman and others as mentioned in the proposal. In addition, ICAR-CIFRI need to give detail breakup of the proposed heads in the budget part for more clarification.

Agenda Item No. 28.3- 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 having Physico-chemical, Biological and Tertiary treatment followed by RO & MEE – ZLD based treatment system”

DPR Prepared by: IL&FS Cluster Development Initiative Ltd. (IL&FS Cluster) for the Unnao Tannery Pollution Control Company (UTPCC)

DPR appraised by: NEERI, Nagpur & Jamia Millia Islamia University, Delhi

Project Type: Up-gradation of 2.15 MLD CETP to 2.6 MLD CETP with ZLD system at Unnao

Total Project Cost: Rs.66.11 Crores including PE charges at 4% and third party inspection (TPI) charges at 0.5% but excluding taxes.

Funding pattern: 75% (Rs. 49.59 Crores) Central Government and 25% (Rs. 16.53 Crores) by UTPCC -Existing SPV.

Project implementation duration: 24 months and 6 months O&M i.e., total 30 months

Project Components:

1. CETP with ZLD based treatment system

- Adoption of Cleaner Technology of Production by member units of the SPV
 - Pre-treatment Units in Individual Tannery Units by member units of the SPV
 - Collection & Conveyance system, Separate Collection and Conveyance System of segregated soak & composite liquor (C&C)
 - Modular Common Chrome Recovery System of 400 KLD
 - Collection of Chrome liquor via tankers with GPS trackers
 - Establishment of suitable centralized system for 0.8 MLD saline streams with two stage biological treatment, followed by UF, RO & MEE.
 - Establishment of suitable centralized system for 1.4 MLD composite streams with two stage biological treatment, followed by UF, RO, MEE & Unusable salt storage area.
 - Supply of Treated Water back to tanneries for reuse
2. Engagement of Project Engineer (PE) and Third Party Inspections (TPI) for CETP

The agenda for CETP at Unnao with above mentioned details was presented before the Executive Committee (EC). EC was informed that the proposal for up-gradation of 2.15 MLD to 2.6 MLD CETP with ZLD based technology has been submitted by UTPCC which has been duly appraised and recommended by NEERI, Nagpur & Jamia Millia Islamia University, New Delhi. A brief presentation was made on technology and implementation mechanism, Collection & Conveyance System and Common Chrome Recovery unit before the Executive Committee. 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 funding pattern (75:25 between Central Govt and SPV) has been adopted similar on the lines of Banthar Tannery CETP Project and Mathura CETP project. The 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.

UTPCC requested the EC to increase the share of Central Government to 95% of the project cost as grant-in-aid similar to Jajmau CETP project. It was discussed that funding for pollution abatement projects in industrial sector under Namami Gange programme being implemented in other areas follows polluters pay principle with contribution from Industries association. This contribution from industries is a must and will bring ownership of UTPCC for the project as project will involve part funding from UTPCC and will ensure the proper O&M of the plant. The Committee also deliberated on the provisions made for Project Engineer who will be appointed by NMCG for design vetting, overall supervision and construction management and it was observed that provision made @4% of project cost may be inadequate as the execution of project works will require man-months for various civil, structural, geotechnical, hydro-mechanical, electro-mechanical and instrumentation experienced personnel for the duration of project. It was also observed that this provision can be increased to 6% of project cost. It was also discussed that since PE is being appointed by NMCG, the provisions made for PE shall be excluded while calculating the share of SPV and NMCG.

DECISION :

After detailed discussions and due deliberation on all aspects including financial models of industrial projects under financial assistance of GoI schemes, the 2.6 MLD CETP up-gradation project at an estimated cost of Rs. 67.68 Crores was approved after, subject to following conditions.

- 1) Total cost of the project will be Rs 67.68 Crores but without GST as SPV shall not bear the charges for PE & TPI as PE & TPI works on the behalf of NMCG and thus the charges for such services is to be borne by NMCG only.*
- 2) For CETP component, the project cost will be Rs 63. 25 Crores (including 6 months O&M) and NMCG share towards CETP will be 75% of CETP component (Rs.47.44 Crores excluding taxes) and UTPCC (SPV) will bear 25% (Rs. 15.81 Crores excluding taxes).*
- 3) PE for this project will be appointed by NMCG who will monitor and supervise the proposed upgradation work. The charge of PE will be borne by NMCG and paid directly to PE. The estimated cost for PE services has been increased to Rs. 3.80 Crores (6% of CETP component cost) as per recommendations of experts as proposed charges for PE services (Rs 2.53 Crores) appears very low. Similarly, TPI charges have been increased to Rs. 0.63 Crores (1% of Project cost).*
- 4) The UTPCC (SPV) will submit an affidavit with an undertaking*
 - a) to contribute their share 25% of the project cost plus applicable taxes.*
 - b) All tanneries operating in Unnao cluster to be member of UTPCC and CETP.*
 - c) UTPCC shall comply/decide to ensure*
 - i. Member units' share of Effluent Quantity in the CETP*
 - ii. Quality of Raw Effluent sent by member units to the CETP, which has to conform to inlet design norms for CETP*
 - iii. User Charges structure payable by the member units to the UTPCC.*
 - iv. Tariff Structure, basis and escalation, if any.*
 - v. Modalities of metering, billing and collection of payment*
 - vi. Responsibility and obligations of UTPCC and the member units.*
 - vii. Event of default by member units and suspension of service and*
 - viii. Dispute Resolution mechanism of member units*
 - d) All member units to construct/upgrade the PETP as per the norms stipulated by UPPCB.*
 - e) Upgradation work will be carried out in existing land allocated for the purpose.*
 - f) All statutory clearance shall be taken by UTPCC before execution of works.*
 - g) PETPs upgradation and Cleaner technologies adoption will be implemented before completion of CETP.*
- 5) The tender document should be prepared by UTPCC for up-gradation of CETP with 5 years O&M in the same lines of Jajmau to ensure proper utilization of CETP.*
- 6) Executive Committee further decided that, to monitor the implementation of proposed project the SPV should be re-constituted by nominating representatives from Central and State Government in board similarly on the lines of JTETA board.*

- 7) *In case of failure to comply with conditions mentioned by SPV at para (4-a,b and d) within 30 days after issuance of administrative approval and expenditure sanction, approval shall stand withdrawn. If any relaxation in this time period is required, the same shall have to be duly submitted to the government before expiry of above timelines and such request may be accepted by NMCG only on merits.*
- 8) *The project has been considered to be funded under Industrial Pollution head of Namami Gange- National Ganga Plan (NGP).*

Agenda Item No. 28.4- 'Water Quality Monitoring System for River Ganga-CPCB Phase II for the period 2020-2026' Under Institutional Development Component of the World Bank Assisted National Ganga River Basin Project

Proposal of: Central Pollution Control Board (CPCB) (Ministry of Environment, Forest and Climate Change)

Executing Agency: Central Pollution Control Board (CPCB) (Ministry of Environment, Forest and Climate Change)

DPR appraised by: Dr. Abid Ali Khan, Department of Civil Engineering, Jamia Millia Islamia (A Central University), New Delhi-110025

Project Name: Water Quality Monitoring system for River Ganga-CPCB Phase II for the period 2020-2026

Total Project Cost: Rs. 126.17 Crores (Rs One hundred and Twenty Six Crores and Seventeen Lakhs)

Project implementation duration: 6 years (from 20.06.2020)

Central Government Share: World Bank assisted National Ganga River Basin Project with 100% central assistance

Project Components:

Quality assurance system for real time water quality monitoring system (Data Qualification Services Consultant)

Real Time monitoring system (Procurement of RTWQM data)

Bio Monitoring

Community Monitoring

Above agenda for the proposal was presented as below:

Water Quality Monitoring system for River Ganga -CPCB (WQM) was originally based on appraisal and sanction of the Empowered Steering Committee (ESC) vide its 6th meeting held on 20th November, 2012 at an estimated cost of Rs 94.45 crores for 7 years w.e.f. 19th June, 2013 under the Institutional Development component of the World Bank assisted National

Ganga River Basin Project. Accordingly, AA&ES was issued to Central Pollution Control Board (CPCB) which is the executing agency.

The project envisages procurement of data from Real Time Water Quality Monitoring Stations (RTWQMS), Quality Assurance system for Real Time Water Quality Monitoring system, Bio monitoring and community monitoring.

In the minutes of meeting held on 11.09.2019, it was communicated to CPCB to submit the revised estimated cost of the Data Qualification Services Consultant with appropriate justification as the 1st call towards the bid of the data qualification consultant was cancelled due to the higher cost of the L1 bidder than the sanctioned cost of the component. CPCB was suggested to assess the overall project cost of the WQM project including the component wise allocation needs keeping in view the revised cost of Data Qualification Services Consultant, cost of Data Service Provider for 40 RTWQMS and other components of the WQM project including the payment for Data Service Provider for 36 RTWQMS.

CPCB vide letter dated 11.10.2019 submitted the revised cost estimate for WQM project as Rs 113.37 crores for 5 years. The revised cost estimate included revision in RTWQM activities - Consultancy and Services. The cost in the Consultancy component was revised based on rates received after International Competitive bidding for Data Qualification Service Consultant for 36 RTWQM Stations in the first call, which couldn't be accepted for want of justification/adequate provisions in the sanctioned estimate. The cost based on the bid cost for 36 stations had been adjusted for 76 Stations accordingly and same had been considered in the proposal as revised cost.

Central Pollution Control Board (CPCB), the Executive Agency informed, that till 31 March 2020, Rs.19.60 crore had been expended against a sanctioned cost of Rs.94.45 crore, which is merely 21% of the project cost. CPCB has also submitted the delay analysis report, which was discussed. As per Delay Analysis Report (DAR), the main reasons for delay and low expenditure on the project are - (i) there was a substantial gap of 03 years (approx.) in recruitment of manpower for the project due to which project could not take off for nearly three years; (ii) Data Qualification Consultant could not be selected as the quoted price (bid price) were too high as compared to the sanctioned cost; (iii) Delay in getting NoCs from other Departments; (iv) CPCB as well as NMCG did not have any prior experience on implementation of Real Time Water Quality Monitoring (RTWQM) project based on data purchase model.

Based on examination and recommendations of Third Party Appraisal, the revised estimated cost for WQM project Phase II as Rs 126.17 crores has been recommended for a period of 6 years (2020-2026) from the date of issue of sanction order for according the approval under the Institutional Development component of the World Bank assisted National Ganga River Basin Project under Namami Gange programme.

Besides, CPCB also made a presentation and sought the approval of Executive Committee (EC) for additional Rs 82 crores for the setting of additional RTWQMS, bio-monitoring at proposed RTWQMS, engagement of Short Term Expert Consultants, and Community monitoring with revised proposed total cost of the project as Rs 208.17 crores.

After detailed discussions, EC resolved that the additional cost of Rs 82 crores cannot be considered for sanction as the proposal has not been examined/ appraised. It was observed by JS&FA that Central Water Commission (CWC) also maintains a vast network of water quality stations spread out in Ganga basin with sufficient logistics in form of trained manpower, instruments and laboratories. The services of CWC may also be utilized in expansion of network of manual/ RTWQMS and data so procured/ collected can be sourced seamlessly at integrated platform of Water Resources Information Centre under Ministry of Jal Shakti using the standard protocols. ED (F) observed that services and expertise of other organisations in M/o Jal Shakti should also be suitably utilized in expansion of water quality monitoring network.

DECISION :

After detailed discussions, EC resolved to approve the above proposal as per agenda with revised cost of Rs 126.17 crores for a period of 6 years (2020-2026) subject to following conditions.

- *The terms and conditions of the AA&ES issued vide letter no. C-11012/2/2011-NRCD-II dated 19th June, 2013 shall be applicable with suitable amendment arising from MoWR, RD& GR notification dated 07th October, 2016 and directions contained in review meetings of senior officials of M/o Jal Shakti and Hon'ble Minister Jal Shakti.*
- *To finance a project from World Bank Assisted Externally Aided Component (EAP), No objection from World Bank is required, which is awaited. Therefore, the project may be financed from National Ganga Plan and once World Bank gives its No objection, the project may be migrated to World Bank Assisted Externally Aided Component.*
- *The progress of the project has been very slow and only expenditure of Rs 19.60 crores has been incurred since the inception of the project till 31st March, 2020. A oversight mechanism may be put in place so that the various activities and procedures such as bidding process and other activities as envisaged in the project are completed in a time bound manner and also to closely monitor the financial progress of the project. The entire progress will be monitored by DG, NMCG to ensure that various activities are completed in time bound manner.*
- *As discussed in previous review meetings, some of the scientific staff engaged in the schemes viz. PIAS, SER and WQM projects in NGRBA Cell in CPCB may be permanently stationed at NMCG Office at Delhi under the supervision of Director General, NMCG. The stationed officials shall regularly monitor, analyze and update the status of water quality data received from the real time sensors along with the data obtained from the manual water quality data and also try to correlate with the pollution*

assessment data of GPIs, STPs, CETPs and drains which are being monitored in SER and PIAS projects respectively along with consideration of other factors which may influence the water quality.

- *A need was also felt to conduct a Manpower audit of the staff engaged by CPCB on the three projects of Namami Gange to assess the optimum utilization of manpower resources.*
- *A data interface will be created for regular transmission of validated water quality data and relevant pollution assessment data attributes to establish an effective decision support system for NMCG.*
- *The real time data so collected after due validation shall be made part of an integrated Water Resources Information System of Ministry of Jal Shakti “WRIS” presently being administered by National Water Informatics Centre. Besides, the seamless integration of Real Time Water Quality data along with other data being collected by CPCB and other agencies shall also be maintained.*
- *In principle approval towards engagement of other organisations such as Central Water Commission (CWC) (as Executing agencies of specific target oriented water quality monitoring network programme) may be explored for the installation/ procurement of data from additional Real Time Water Quality Stations on river Ganga and its tributaries as they are already having a sound infrastructure and water quality monitoring network for river Ganga and Yamuna basin.*
- *The Wildlife Institute of India, under the NMCG-WII sponsored project ‘Biodiversity Conservation and Ganga Rejuvenation’ has established a cadre of self motivated volunteers from the local communities across five Ganga States which are involved in river Ganga conservation. CPCB can impart training to Ganga Praharis regarding water quality monitoring under the community monitoring component of WQM, Phase -II project.*
- *Further, the biomonitoring reports of CPCB regarding assessment of the biological quality of the river through measurement of saprobic score and diversity score of macro-invertebrates may also discussed with WII in context of the findings of its project ‘Biodiversity conservation and Ganga Rejuvenation’ to derive the relevant inferences from the two projects regarding the ecological health of the river.*
- *It was reiterated that the establishment of 40 RTWQMS and engagement of Data Qualification Services Consultant should be expedited. If required, the meeting can be organized between the concerned agencies viz. NMCG, World Bank and CPCB to discuss the impending issues and expedite the process.*

Agenda Item No. 28.5- Revised Sanction for Development of Sewage Treatment Plants under Hybrid Annuity based PPP Model in Maheshtala (West Bengal) as per Technical Assessment Report

A project for I&D and STP for Maheshtala town was approved by NMCG in its 11th EC meeting held on 27th April 2018 at an estimated cost of Rs. 198.43 Crores. The tender for Maheshtala Project was initially coupled with the Hooghly-Chinsurah Project in West Bengal

(RfP documents issued in January 2019). Due to some unresolved site issues regarding scope and RoW of pipelines in Hooghly-Chinsurah project, Maheshtala project was retendered separately. Tender documents for the Maheshtala Project were issued on 29th January 2020. Prebid meeting for the standalone tender was conducted on 13th February 2020.

As per the original AA&ES, on-site treatment of 2.13 MLD was proposed at Choyer Mayer Khal. During the visit, it was observed that there is not enough land available for on-site treatment meeting the NGT discharge norms at the proposed location. Therefore, in the revised scope KMDA has proposed to intercept the Choyer Mayer Khal and divert the flow in the newly proposed STP, instead of on-site treatment. Further, the augmentation of the existing 4.2 MLD WSP STP was also proposed in the original sanction. KMDA informed that the existing 4.2 MLD STP and MPS was constructed in the year 1995, design life of the plant has expired and it may not be feasible that existing STP could meet the NGT discharge norms and perform 15 more years. Thus the proposal was revised accordingly.

In revised proposal total wastewater generated from 06 nos of khals namely 1) Choyer Mayer Hana Khal, 2) Nungi Abadi Khal 3) Mirpur Khal 4) Naya Basti & Maheshtala Khal 5) Old Monikhali khal and 6) Bhanga Khali Khal will be diverted to the proposed STP and also the capacity of proposed STP has been enhanced to 35 MLD instead of originally proposed 26 MLD. The revised project has been appraised by Jamia Millia Islamia (JMI) University, Delhi. JMI recommended the revised project. The scope of the revised proposal is:

- STP- 35 MLD, 1 no.
- Pumping Stations-4 nos.
- MPS- 35 MLD, 1 no.
- Diversion Structures- 6 nos.
- Laying of Rising Main- 5989 m
- Rising Main (Treated effluent pipeline from existing and proposed plant)- 390 m
- Repair & rehabilitation of gravity sewer- 1145 m
- EPS- 35 MLD, 1 no.
- Operation & maintenance for 15 years

DECISION:

After detailed discussions, Executive Committee (EC) resolved to approve the proposal for revised scope with revised cost estimate for pollution abatement works for river Ganga in Maheshtala (interception & diversion scheme with STP) in West Bengal State, under Namami Gange Program for an estimated amount of Rs 224.69 Crores (including cost of O & M for 15 years –Rs 92.72 Crores). The STPs proposed under new proposal have been considered to meet the new norms as per order of Hon'ble NGT. KMDA has to ensure that after completion of this project, no drain should discharge untreated effluent into river Ganga from the project area.

The other terms and conditions shall remain as per issued AA&ES (Ref. No. T-15/2013-14/354/NMCG dtd. 10.05.2018).

Agenda Item No. 28.6- Proposal for Phase 2 - Development of Ghat at Bhrigu Ashram Bulandshahar, Uttar-Pradesh

- DPR appraised by Jamia Milia Islamia, Delhi
- Project Cost- Rs. 1,11,55,191 Lakhs (One Crore Eleven Lakh Fifty-Five Thousand One Hundred Ninety-One only) (including 6 months O&M), without Taxes. Taxes shall be paid additionally on actuals as applicable.
- Provision of basic amenities on Ghat site (on site facilities) like seating cum planter, handrails, toilet block, change room, dustbins, lighting facility etc., Provision of signage on Ghat sites for information and enhance awareness among visitors/users.
- Construction of Ghat steps
- Ghat Protection works.
- Completion time- 10 months, to be completed by 31st March 2021.
- Financial Effect- 100% funding by Budget Allocation Fund of Ghat Works
- Land to be provided by State Government

DECISION :

Based upon the discussions on the above, the proposal was recommended by Executive Committee of NMCG for according of Administrative Approval & Expenditure Sanction (AA&ES) by the competent authorities at an estimated cost of Rs 1,11,55,191 Lakhs, Taxes shall be paid as applicable (Rs. 1.12 Cr.) including O&M for 6 months along with the compliance with the observations of NMCG and TPA that would be ensured by EIL at the time of finalization of Bid Document with the following conditions:

- (i) *Provision of onsite facilities like seating cum planter, handrails, toilet block, change room, dustbins, lighting facility etc., Provision of signage on Ghat sites for information and enhance awareness among visitors/users.*
- (ii) *Construction of Ghat steps*
- (iii) *Ghat Protection works.*
- (iv) *Proper signage needs to be included.*
- (v) *O&M for the initial 6 months after commissioning form the part of the project scope.*
- (vi) *The organization engaged for O&M must have revenue generation mechanism in place for sustaining the O&M activities.*
- (vii) *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.*
- (viii) *EIL has to ensure the stability of the proposed structure. Also, they should use such material that can ensure durability and longevity of the proposed structure.*
- (ix) *Any deviation from the approved scope should be brought to the notice of NMCG and shall be undertaken only after the approval of the competent authority.*

- (x) *Since the period of completion of the project is 10 (Ten) months, 31st March 2020 from the date of sanction, including bidding process and award of work. Therefore, the bidding process and award of work for the project must be completed within 6 months or earlier from the date of sanction*
- (xi) *Taxes shall be paid as applicable.*
- (xii) *The cost break-up of the approved work is as mentioned below:*

Table-1: Recommended Cost Estimates (Rs Lakhs)		
Sl No.	Description	Amount (in Rs.)
1	Ghat protection works	5215350
2	Construction of Steps for Ghat	2276040
3	Onsite facilities	1649213
A	Total Basic Cost (1+2+3)	9140603
B	O&M Cost for 6 months (included in total basic cost)	45703
4	GST @ 12% on (A)	1096872
5	Labour Cess @ 1% on (A)	91406
C	Total Cost of Works (including Taxes) (A+4+5)	10328881
D	Cost of Supervision and Project Preparation @ 8% as per NGRBA	826310
	Total Project Cost	11155191
	say in Cr.	1.12