EDA/2016-17/717/NMCG-EC Meeting  
National Mission for Clean Ganga  
Ministry of Water Resources, River Development &  
Ganga Rejuvenation  

1st Floor,  
Major Dhyan Chand National Stadium  
India Gate, New Delhi-110002  

Dated: 26.02.2018  

Sub: Minutes of 9th Meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 20th February, 2018.  

Please find enclosed the minutes of 9th Meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 20th February, 2018 at 3:00 PM in NMCG office, New Delhi for information and necessary action.

Nityananda Ray  
Deputy Secretary  
Contact: 011-23049440  

To,  
1. Joint Secretary (PFC-I/PF-States), Department of Expenditure, Ministry of Finance, North Block, New Delhi-110001  
2. Shri Jitender Kumar/Dr. Yogesh Suri, Adviser, NITI Aayog, Yojana Bhawan, Sansad Marg, New Delhi-110001  
3. Principal Secretary (UD), Directorate of Urban Development (DUD), Uttarakhand, 43/6 Mata Mandir Road, Dharampur, Dehradun, Uttarakhand-248001.  
4. Secretary (UD), Urban Development Department (UDD), 834, Bapu Bhawan, Lucknow-226001.  
5. Principal Secretary (UD & Housing), Urban Development and Housing Department (UDHD), Vikas Bhawan, Bailey Road, Patna, Bihar-800015.  
6. Principal Secretary (UD), Department of Municipal Affairs (DMA), Nagarayan, Sector-I, Block-DF-8, Bidhan Nagar, Kolkata-700064.  
7. All EDs of NMCG.  

CC:  
1. Project Director, SPMG Group 117 Indira Nagar Dehradun 248001 Uttarakhand  
2. Project Director, SPMG Group 834, Bapu Bhawan Sachivalya, Lucknow, - 226001.  
3. Project Director, SPMG Group (Secretary Urban Development), Government of Bihar, Vikash Bhawan, Bailey Road, Patna, Bihar – 800001.  
4. Project Director, SPMG Group Unnayan Dhawan’, 3rd Floor, DJ-11, Sector-II, Block-A, KMDA, Kolkata- 700091.  
5. PS to DG, NMCG- for his information.
Minutes of 9th meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) held on 20th February 2018 in NMCG Office, Delhi

Executive Director (Administration), NMCG welcomed DG, NMCG and Secretary, MoWR, RD&GR and all other members present for the EC meeting and requested the Chairperson to share his thoughts:

DG, NMCG & Secretary, MoWR, RD&GR amongst other things reiterated the need for states to expedite work on sanctioned projects. He informed that Principal Secretary to PM in his last review meeting sought to know when results would start flowing, now that the program was almost 4 years in place. Chairperson then asked the agenda to be taken up. Following decisions were taken in the meeting:

**Agenda Item No.1: “Development of Sewage Treatment Plants (STPs) and integration of existing STPs in Howrah and Kolkata in the state of West Bengal (Rehabilitation of Garden Reach STP 57 MLD capacity and Keorapukur STP, 50 MLD capacity with O&M for 15 years)”**

- Project Cost: Rs165.16 Crore including O & M for 15 years
- DPR appraised by Jamia Millia Islamia University
- Project Components:
  i. De-silting of existing sewer line, LSs, MPS, and Sludge Pump House.
  ii. Rehabilitation works (minor)
  iii. SCADA system for STP, LS & MPS for real time monitoring
  iv. O&M for 15 years period for STP and LS/P
- Completion Time: 24 Months (including bidding)
- Financial Effect: 100% Central Sector
- Bidding Process: Bidding will be done on Hybrid Annuity based PPP basis

After detailed discussion Executive Committee (EC) resolved to approve the proposal for according Administrative Approval and Expenditure Sanction (AA&ES) for project entitled “Development of Sewage Treatment Plants and integration of existing STPs in Howrah and Kolkata in the state of West Bengal (Garden Reach STP, 57 MLD capacity and Keorapukur STP, 50 MLD capacity with O&M for 15 years)” under Namami Gange Program for an estimated amount of Rs 165.16 Crore (including cost of O & M for 15 years – Rs144.72 Crore) to be implemented on Hybrid Annuity based PPP model. It was also resolved that the observations of NMCG, TPA should 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. The project has been considered to be funded under NGP Component
New Initiatives of Mission Namami Gange Program. The State Government should ensure the availability of land in their possession before awarding the works.

EC has also considered the proposal of State Government of West Bengal that 2 separate bids may be invited for KMDA and KMC jurisdiction sewerage infrastructure packages. EC resolved that two separate bids may be published for clubbing/ integration of assets, 1st package will comprise of KMC jurisdiction sewerage infrastructure projects i.e. Tolly Nullah, Garden Reach & Keorapukur STPs while 2nd package will comprise of KMDA jurisdiction sewerage infrastructures i.e. Howrah, Bally & Kamarhati-Baranagar STPs. KMC and KMDA will be the executing agency for these packages respectively.

SPMG West Bengal sought a clarification regarding tendering of approved dredging component for Tolly’s nallah project. It was clarified during meeting that SPMG may ask executing agency (KMC) to initiate the tendering process for dredging component as dredging works is excluded from the scope of tenders being prepared for sewerage infrastructure works.

**Agenda Item No.02: “20 MLD –Common Effluent Treatment Plant for Tannery Cluster at Jajmau, Kanpur, Uttar Pradesh”**

**DPR Prepared by:** Tamilnadu Water Investment Company (TWIC).

**DPR appraised by:** IIT-Roorkee

**Project Type:** 20 MLD CETP at Jajmau Tannery Cluster, Jajmau

**Project Cost:** Rs.554 Crores and Rs. 629 Crores /- (upto phase I & II respectively including 6 months O&M cost)

**Project implementation duration:** 24 months (upto phase-I) and 36 months (upto phase-II)

**Funding pattern:** 75% Central Government and 25% by Jajmau Tannery Effluent Treatment Association (JTETA) - SPV formed for the purpose.

**Project Components:**

**A. PHASE - I (Upto Ultra Filtration)**
- Pre-treatment Unit in 380 Individual Tannery Units
- 20 MLD CETP with physical, biological and tertiary treatment Component
- Odour Control Units
- Dilution facility with treated sewage
- Basic Infrastructure for support and services of CETP facilities
- Project Management, Professional consultancy services etc.

**PHASE - II Component (Add-On RO System)**
- Modular RO to retrofit/append to Phase – I
- Facility for storage of recovered permeate and distribution of recovered water among industries
- Project Management, Professional consultancy services for Phase – II
Note – Part B above (Phase II) will be implemented in case the system in Phase – I cease to meet the stipulated discharge norms on consistent basis.

B. Collection and Conveyance System (C&C)

C. Modular (300 KLD x 3 Nos) Common Chrome Recovery System of 900 KLD

D. Installation of a ZLD based Pilot plant of 200 KLD capacity for demonstration study for technology validation purpose.

TWIC made a presentation on technology and implementation mechanism of 20 MLD CETP, Collection & Conveyance System, Common Chrome Recovery, Pre-treatment at individual units and ZLD based Pilot plant before the committee in presence of Prof A. A. Kazmi, IIT-Roorkee (TPA). The proposal has been accepted by JTETA vide their acceptance letter dated 30th Oct 2017 submitted to Implementation Committee. Subsequently, Supervisory Committee of NGT under Chairmanship of Secretary, MoWR, RD &GR after deliberation recommended for implementation in phased manner upto RO technology stage (phase-II) subject to condition that Phase II (RO system) will be implemented in case the system upto Phase – I fails to meet the stipulated discharge norms.

The Jajmau Tannery Effluent Treatment Association (JTETA) accepted the proposal but requested the Executive Committee (EC) to increase the share of Central Government from 75% to 100% as grant-in-aid. It was clarified to them that it is not possible to increase the share of central Government funding.

Recommendations:

The project component ‘A’ upto phase-I at an estimated cost of Rs. 554 crores (including 6 months O&M) is approved after due deliberation on all aspects including financial models of such projects under financial assistance of GoI schemes, subject to following conditions.

1) NMCG share will be 75% (Rs.415.5 crores) and JTETA (SPV) will bear 25% (Rs.138.5 crores) of capital cost. The estimated cost includes Part B, C and D which are integrated components of the project.

2) The JTETA (SPV) will submit an affidavit with an undertaking
   a) to contribute their share 25% of the project cost.
   b) Reconfirm the acceptance of the DPR discussed in the EC meeting today.
   c) Shall appoint a Project Management Agency.
   d) All tanneries operating in Jajmau cluster to be member of JTETA and CETP.
   e) 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
      iii. Responsibility and obligations of JTETA and the member units.
iv. Estimated Cost of Project and Source of Funding
v. User Charges structure payable by the member units to the JTETA.
vi. Tariff Structure, basis and escalation
vii. Modalities of Metering, billing and collection of payment
viii. Event of default by member units and suspension of service and
lix. Dispute Resolution mechanism of member units
f) All member units to construct/upgrade the PETP as per the design proposed in the DPR in order to meet the PETP norms stipulated by UPPCB in consultation with JTETA.
3) In case of failure to comply with conditions mentioned at para (2-a,b) within 7 days which ends on 28th Feb 2018, approval shall be in abeyance.

The project has been considered to be funded under Industrial Pollution head of Namami Gange - National Ganga Plan (NGP).

**Agenda Item No. 3:** “Construction of 68 MLD STP for Zone - A, B, C, D, & E at Jagjeetpur, and 14 MLD STP for Zone - F at Sarai, Haridwar, in Uttarakhand State including 15 years O&M”, migration from EAP to NGP.

- Sanctioned Cost : Rs273.37 Cr. In 1st EC meeting
- Awarded Cost : Rs171.53 Cr.
- Original Funding Head : EAP (World Bank)
- Proposed Funding Head : NGP (National Ganga Plan)
- Executing Agency : Uttarakhand Peyjal Nigam
- Completion Period : 24 Months
- Present Status : Work under Execution

The said project was sanctioned in 1st EC meeting at sanctioned cost of Rs273.37 Cr. under EAP (World Bank) category, subject to the condition of receipt of NOC from World Bank, otherwise project will be taken under NGP. Since World Bank bidding document for HAM based PPP project wasn’t approved at that time, so tender was called using HAM documents prepared by IFC consultant and thus NOC from World Bank was not received. The project funding has been proposed to migrate to NGP as per EC’s conditional approval and thus the matter was placed before EC for their information. EC took note of the migration of project from EAP to NGP.

**Agenda Item No. 4:** “Sewer Network, SPS and STP, Begusarai (Revised AA &ES)”under Namami Gange Programme.”

- DPR - Appraised by: IIT-Roorkee
- Project Cost: Rs. 23006.69 Lakh including O&M for 15 years
- Land: To be provided by State Government
- Project Components:
During the revised estimate and detailed survey and design the length of sewer network has become 114 km instead of originally approved 105 km due to addition of some areas. Out of the 114 km, sewer line is already laid for 16 km length is already laid in the previous contract and in the revised estimate only additional 98 km to be laid;

- Development of a 17 MLD capacity sewage treatment plant apart from the completed works;
- Sewage Pumping Station (SPS) of 3 Nos.
- 15 year Operation & Maintenance;
- Environment plan during construction and operation phase
  - Completion Time: 24 months (excluding bidding) from the date of issue of Letter of Award (LoA);
  - Financial Effect: 70% Central share (Rs 16104.68 Lakh) and 30% State share (Rs 6902.01 Lakh);
  - Bidding Process: DBOT Mode

After detailed discussion, Executive Committee (EC) resolved to approve the proposal for according Revised administrative approval and expenditure sanction (Revised AA&ES) for completion of remaining Sewer Network, SPS and STP, Begusarai town at an estimated cost of ₹ 230.07 Crore (including cost of O&M for 15 years - ₹ 57.54 Crore) to be implemented on Design Build Operate and Transfer (DBOT) mode. It was also resolved that the observations of NMCG and TPA should 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. For the remaining works of Sewer Network (98 Km), SPS (4 Nos) and STP (17 MLD) in Begusarai town and O&M for 15 Years after commissioning will form part of the project scope and in subsequent years, State Govt./ULB will ensure the O&M as per the norms. The project has been considered to be funded under EAP Component (World Bank Funded) subject to receipt of NOC from World Bank for this project, otherwise the funding will be done from National Ganga Plan (NGP). The state government shall assure availability of land for pumping stations and STPs in their possession before awarding the works. EC has also resolved that any cost overrun in this project should be borne by the state government. State government may send confirmation in this regard before inviting tenders.

Since it is already a committed liability project under DBOT mode and the present AA&ES is issued only for the remaining works, the project will be executed following DBOT mode.

**Agenda Item No. 5:** “Sewer Network, SPS and STP, Munger (Revised AA &ES)’ under Namami Gange Programme.”

- DPR - Appraised by: IIT-Roorkee
- Project Cost: Rs 29402.17 Lakh including O&M for 15 years (After TPA recommendation)
- Land: To be provided by State Government.
- Project Components:
  - During the revised estimate, BUJDCO has redesigned the sewerage network as 174.75 km instead of originally approved 143 km. Out of this only 9.024 km network is completed. So the revised estimate is for remaining 165.73 km.
  - Remaining civil and electro-mechanical works for the 30 MLD capacity sewage treatment plant.
  - Sewage Pumping Station (SPS) of 5 Nos.
  - 15 year Operation & Maintenance
  - Environment plan during construction and operation phase
- Completion Time: 24 months (excluding bidding) from the date of issue of Letter of Award (LoA)
- Financial Effect: 70% Central share (Rs 20518.52 Lakh) and 30% State share (Rs 8820.65 Lakh)
- Bidding Process: DBOT Mode

After detailed discussion, Executive Committee (EC) resolved to approve the proposal for according Revised administrative approval and expenditure sanction (Revised AA&ES) for completion of remaining Sewer Network, SPS and STP, Munger town for an estimated amount of Rs294.02 Crore (including cost of O&M for 15 years - Rs 81.37 Crore) to be implemented on Design Build Operate and Transfer (DBOT) mode. It was also resolved that the observations of NMCG and TPA should 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 proposed Sewer Network (165.73 Km), SPS (5 Nos.) and STP (30 MLD) in Munger town along with O&M for 15 Years after commissioning will form part of the project scope and in subsequent years, State Govt./ULB will need to ensure the O&M as per the norms. The project has been considered to be funded under EAP Component (World Bank Funded) subject to receipt of NOC from World Bank for this project; otherwise the funding will be done from National Ganga Plan (NGP). The state government shall ensure availability of land for pumping stations and STPs in their possession before awarding the works. EC has also resolved that any cost overrun in this project should be borne by the state government. State government may send confirmation in this regard before inviting tenders.

Since it is already a committed liability project under DBOT mode and the present AA&ES is issued only for the remaining works, the project will be executed following DBOT mode.

**Agenda Item No. 6:** “Sewer Network, SPS and STP, Hajipur (Revised AA &ES)” under Namami Gange Programme.”

- DPR - Appraised by: IIT-Roorkee
- Project Cost: Rs 30518.86 Lakh including O&M for 15 years (After TPA recommendation)
- Land: To be provided by State Government
- Project Components:
  - During the revised estimate and detailed survey BUIDCo has come up with the overall design length of 189.3 km instead of originally approved 198 km. Out of this 189.3 km, sewer line is already laid for 50.4 km (by the old contractor) and remaining 138.9 km is to be laid.
  - Remaining civil and electro-mechanical works for the 22 MLD capacity sewage treatment plant.
  - Sewage Pumping Station (SPS) of 4 Nos.
  - 15 year Operation & Maintenance
  - Environment plan during construction and operation phase
- Completion Time: 24 months (excluding bidding) from the date of issue of Letter of Award (LoA)
- Financial Effect: 70% Central share (Rs 21363.20 Lakh) and 30% State share (Rs 9155.66 Lakh)
- Bidding Process: DBOT Mode

After detailed discussion, Executive Committee (EC) resolved to approve the proposal for according Revised administrative approval and expenditure sanction (Revised AA&ES) for completion of remaining works of Sewer Network, SPS and STP, Hapur town for an estimated amount of Rs 305.19 Crore (including cost of O&M for 15 years - Rs 76.63 Crore) to be implemented on Design Build Operate and Transfer (DBOT) mode. It was also resolved that the observations of NMCG and TPA should 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. For the Sewer Network (138.9 Km), SPS (4 Nos.) and STP (22 MLD) in Hapur town and O&M for 15 Years after commissioning will form part of the project scope and in subsequent years, State Govt./ULB will ensure the O&M as per the norms. The project has been considered to be funded under National Ganga Plan. The state government shall ensure availability of land for pumping stations and STPs in their possession before awarding the works. EC has also resolved that any cost overrun in this project should be borne by the state government. State government may send confirmation in this regard before inviting tenders.

Since it is already a committed liability project under DBOT mode and the present AA&ES is issued only for the remaining works, the project will be executed following DBOT mode.

**Agenda Item No. 7:** Rehabilitation of existing Sewage Treatment Infrastructure, Development of Sewage Treatment Plant at Pankha (30 MLD) along with appurtenant works, 15 years O&M and their integration with the already approved I&D and STP projects at Unnao and Shuklaganj at Kanpur zone in
the State of Uttar Pradesh under Hybrid Annuity based PPP mode under Namami Gange Program"

- DPR appraised by AHEC, IIT-Roorkee.
- Project Cost: Rs967.23 Crore including O & M for 15 years
- The land for MPS and STP is available in Kanpur Development Authority and will be transferred to Executing Agency post sanctioning of the project.
- Project Components:
  1. Construction, O&M of 30 MLD STP (Pankha Zone).
  2. Construction, O&M of 20 MLD IPS (Sundar Nagar Zone), 25 MLD IPS (ICI Nala Zone) and 115 MLD MPS (Pankha Zone).
  3. Laying, O&M of gravity main of 16 km in Pankha Zone and 0.5 km of rising main (Pankha Zone).
  4. Rehabilitation, O&M of 130 MLD STP (Jajmau Zone).
  5. O&M of 43 MLD STP (Jajmau Zone), 210 MLD STP (Bingawan Zone) and 42 MLD STP (Sajari Zone).
  6. Rehabilitation/renovation of existing 6 IPS (Nawabganj, Parmat Ghat, Baba Ghat, Guptar Ghat, Khalisa lane Chauraha and Sanjaypuram), 1 MPS (Jajmau) and 1 CSPS(Jajmau Zone), 3 IPS (RakhiMandi, Halwakhanda, Munshipurwa) and 1 MPS(Bingawan Zone) and 2 IPS (Chakeri & Sanigawam) and 1 MPS (Sajari Zone).
- Completion Time: 24 Months.
- Financial Effect: 100% Central Sector
- Bidding Process: Bidding will be done on Hybrid Annuity based PPP Mode and technology option shall remain open for bidders.

After detailed discussion Executive Committee (EC) resolved to approve the proposal for according Administrative Approval and Expenditure Sanction (AA&ES) for "Rehabilitation of existing Sewage Treatment Infrastructure, Development of Sewage Treatment Plant at Pankha (30 MLD) along with appurtenant works, 15 years O&M" at Kanpur zone, Uttar Pradesh under Hybrid Annuity based PPP mode, under Namami Gange Program for an estimated amount of Rs 967.23 Crore (including cost of O & M for 15 years - Rs718.84 Crore). The project will be packaged with the already approved I&D and STP projects at Unnao and Shuklaganj. It was also resolved that the observations of NMCG, TPA should 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. The project has been considered to be funded under the NGP Component B – New Initiatives of Mission Namami Gange Program. The State Government should ensure the availability of land, wherever needed in their possession before awarding the works.
**Agenda Item No. 8:** “Rehabilitation and operation & maintenance of existing Sewage Treatment Infrastructure at Allahabad along with their Integration with the already approved project on I/D and Sewage Treatment Plants (STPs) Works at Jhunsi, Naini, and Phaphamauin Allahabad, Uttar Pradesh under Hybrid Annuity based PPP mode” under Namami Gange Program.

- DPR appraised by AHEC, IIT-Roorkee.
- Project Cost: Rs 904.00 Crore including O & M for 15 years
- Project Components:
  1. Rehabilitation, O&M of 80 MLD STP in Naini.
  2. Rehabilitation, O&M of 29 MLD STP in Salori.
  3. Rehabilitation, O&M of 50 MLD STP in Numayadahi.
  4. Rehabilitation, O&M of 60 MLD STP in Rajapur.
  5. Rehabilitation, O&M of 10 MLD STP in Ponghat.
  7. Rehabilitation, O&M of 35 MLD SPS/ MPS at Chacharnalla.
  8. Rehabilitation, O&M of 80 MLDSPS / MPS Gaughat.
  9. Rehabilitation, O&M of 16.5 MLDSPS / MPS Lukerganj.
  11. Rehabilitation, O&M of 50 MLDSPS / MPS Ghagharnallah.
  12. Rehabilitation, O&M of 29 MLD SPS / MPS Salori.
  15. Rehabilitation, O&M of 10 MLD SPS / MPS Ponghatand.
  17. Online monitoring system implementation for all STP/SPS.
  18. Operation & Maintenance - **15 years for Sewerage works.**
- Completion Time: 24 Months including bidding period
- Financial Effect: 100% Central Sector
- Bidding Process: Bidding will be done on Hybrid Annuity based PPP model and technology option shall remain open for bidders.

*After detailed discussion Executive Committee (EC) resolved to approve the proposal for according Administrative Approval and Expenditure Sanction (AA&ES) for “Rehabilitation and operation & maintenance of existing Sewage Treatment Infrastructure at Allahabad, Uttar Pradesh” under Hybrid Annuity based PPP mode, under Namami Gange Program at an estimated cost of Rs 904.00 Crore (including cost of O & M for 15 years – Rs 845.85 Crore). The project will be packaged with the already approved project for I/D and Sewage Treatment Plants (STPs) Works at Jhunsi, Naini, and Phaphamau in Allahabad. It was resolved that the observations of NMCG, TPA should 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. The project has been considered to be funded under the NGP Component B – New Initiatives of Mission Namami Gange Program. The State Government should ensure the availability of land in their possession before awarding the works.

**Agenda Item No.09: Proposal of In-situ/Ex-situ treatment of Drains going into River Ganga & its Tributaries under Namami Gange Scheme**

Project Proposal Prepared by: National Mission for Clean Ganga (NMCG)

Project Type: In-situ/ ex-situ treatment of Drains out falling into river Ganga & its tributaries

Project Cost: Rs. 410 Crore/- (Rupees Four Hundred and Ten Crores Only)

Project Duration: 05 years

Financial Effect: 100% Central Sector

Project Components: In-situ/ ex-situ treatment Operation and Maintenance Solid waste collection, transportation and disposal etc.

- After detailed discussion, EC approved the proposal of “In-situ/ ex-situ treatment of drains going into river Ganga & its tributaries under Namami Gange Scheme” under the head of Research studies, Pilot & Training, Workshop, Seminar, Publication etc. as part of overall Research and Development component at an estimated cost of Rs. 410.00 Crore subject to the condition that observations of NMCG/ TPA may be complied with at the time of finalization of bid document. The EC approved that the competitive proposals/ bids may be invited by NMCG from the prospective technology services providers towards operationalization of in-situ/ ex-situ techniques which inter-alia includes containerized modular STPs for treatment of pollution in the drains and the evaluated bids with recommendations, thereof, may be put up for Executive Committee (EC) for decision. The project has been considered to be funded under National Ganga Plan (NGP).