EDA/2016-17/17/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: 05.04.2018

Sub: Minutes of 10th Meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 26th March, 2018.

Please find enclosed the minutes of 10th Meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 26th March, 2018 at 3:00 PM in NMCG office, New Delhi for information and necessary action.

\[Signature\]
Rajiv Kishore
Executive Director (Administration)
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), Urban Development Department (UDD), 4th Floor, Project Building, Dhurwa, Ranchi – 834004.
7. Principal Secretary (UD), Department of Municipal Affairs (DMA), Nagarayan, Sector-I, Block-DF-8, Bidhan Nagar, Kolkata-700064.
8. 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 (Secretory 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 10th meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) held on 26th March, 2018 in NMCG Office, Delhi

Executive Director (Administration) welcomed new Director General/ NMCG, members of Executive Committee and all Officials present for the meeting and requested the members to introduce themselves to the DG.

Welcoming the members, DG and Chairperson of EC mentioned that the present agenda was brief as it was decided to have a meeting in this month itself with the existing proposals. He said that we should work towards holding one EC meeting every month so that there is a regular sanction of work to be carried out. The meeting should be held in 3rd week of the month so that there is 15 days of clear margin for planning the projects. He said that in the present meeting, the focus is on projects based on the bio-remediation, which is another way of looking at the pollution abatement solution and should be promoted. Chairperson then asked the agenda to be taken up. Following decisions were taken in the meeting:

Agenda Item No.1: “Recommendations in proposed Standard Bid Document (SBD) for NMCG Projects”

Bid documents for Sewerage Projects prepared by different executing agencies across states varying for qualification criteria and other important parameters, leading to allegations of favouritism, non-transparency and restrictive participation. Thus as per directions of Hon’ble Minister, MoWR, RD & GR, a committee was constituted, to examine the inconsistencies and bring uniformity in major clauses in bid documents. The committee examined and recommended Standard Bid Document (SBD) for NMCG Projects having clauses for Technical, Financial, Joint Ventures qualifications, Performance Security etc.

ED Projects presented the Recommendations in proposed Standard Bid Document (SBD) for NMCG Projects, before Executive Committee (EC) for its consideration. The modifications to various clauses were discussed in detail. There was an agreement on approval of modifications of Qualification Criteria (QC), clause 1.4 (a) 1 to 1.4 (a) 4 except it was suggested that in case of special treatments, tertiary treatment etc. the QC in clauses 1.4 (a) 1 to 1.4 (a) 3 may be suitably modified on case to case basis. The clauses of Joint Venture (JV) and Performance Security (PS) in case of unbalanced bids have also been discussed and agreed.

In clause 1.4 (a) 5, EC suggested that the clause may be further modified as follows,

- Up to 500mm – same diameter or any higher diameter
- 500-1000mm – next lower diameter (Maximum by 100mm) or higher
- 1000 – 1500mm – next to next lower diameter (Maximum by 200mm) or higher
- >1500mm- Case to case basis shall be decided.
In Modifications to net worth clause 1.5 Financial Capabilities, the EC requested to re-examine this modification, before finalization.

With above discussion Executive Committee (EC) resolved to approve the proposal “Recommendations in proposed Standard Bid Document (SBD) for NMCG Projects” to be adopted for projects to be funded under NGP.

Agenda Item No. 2: - Treatment of Galaothi Naala, Bulandshahr, Uttar Pradesh using bioremediation under the head of “Research Studies, Pilot and Training, Workshop, Seminar, Publication etc. as a part of overall Research & Development Component

Project prepared by: – M/s Bhagawati Gas Ltd.

Project Type: - Pilot project for In Situ Bioremediation of Drain

Flow in Drain:- 4 MLD

Project Cost:- INR 74,94,180 ( Seventy Four Lakhs Ninety Four Thousand One Hundred and Eighty Only)

Project Duration:-1 Year (First Month will be trial period which can be extended if necessary, after successful demonstration, project will continue up-to 12 months (inclusive trial period) and payment will be made on monthly reimbursement basis based on pro-rata basis against the per MLD cost for quantity of flow measured and treated in drain.

Financial Effect: 100% Central Sector

Scope of Work -

• The proposal is for in situ bioremediation treatment of the Galaothi drain in Moradabad 4 MLD flow.

• Scavenging and cleaning of drain area by ensuring the garbage, floating matter, debris and vegetation shall be cleaned manually from the river and transport to dumping at designated solid waste disposal site. The cleaning of accumulated solid waste shall be carried out periodically by the project proponent.

• Monitoring of flows in the drain at designated monitoring location by installation of suitable flow measuring device viz. V-notch etc. In consultation with the designated authorities.

• Public awareness programme will also be planned to carry out to educate the local residents to avoid throwing the garbage into the drain.

After detailed discussions, EC approved the proposal for according AA & ES for “Treatment of Galaothi Naala, Bulandshahr, Uttar Pradesh using bioremediation under the head of “Research Studies, Pilot and Training, Workshop, Seminar, Publication etc. as a part of overall Research & Development Component” for an estimated amount of INR 74,94,180 ( Seventy Four Lakhs Ninety Four Thousand One
Hundred and Eighty Only). The project has been considered to be funded under National Ganga Plan (NGP).

Above approval is subjected to following conditions-

1. A Technical Monitoring Committee may be constituted for monitoring of the project. The said committee may consist of following members:
   - One representative from CPCB / concerned SPCB
   - One representative from concerned state SPMG
   - One representative from concerned State Government Urban Local Body (ULB)
   - One representative from IITs / NITs/ other reputed technical institute near the project site.

2. A monitoring protocol is to be prepared by taking inputs from all stakeholders viz. concerned municipal corporation/ULBs, SPMG and State Pollution Control Board(SPCB)

3. The agency will monitor flow in the drain by installing a flow measuring device like V notch / flumes etc.

**Agenda Item No. 3:** - Treatment of Ramnagar drain & Raj Ghat drain using Enzyme based bioremediation under the head of “Research, Studies, Pilot & Training, Workshop, Seminar, Publication etc.” as a part of overall Research and Development component.

Project prepared by: – M/s **BINT BIOTECH (P) Ltd.**

Project Type: - Pilot project for In-Situ Bioremediation of Drain

Drain Name – Ramnagar & Rajghat Drain

Flow in Drain: 4 MLD

Project Cost: (Proposed Cost) INR 7,65,13,040 ( Seven Crore Sixty Five Lakhs Thirteen Thousand & Forty Only).

Project Duration:-

1 Year (First Month will be trial period which can be extended if necessary, after successful demonstration, project will continue up-to 12 months (inclusive trial period) and payment will be made on monthly reimbursement basis based on pro-rata basis against the per MLD cost for quantity of flow measured and treated in drain.

Scope of Work:-
The proposal is covered for in situ bioremediation treatment of the Rajghat Drain & Ramnagar Drain in Varanasi with 40 MLD flow in total for both of the drains.

- Scavenging and cleaning of drain area by ensuring the garbage, floating matter, debris and vegetation shall be cleaned manually from the river and transport to dumping at designated solid waste disposal site. The cleaning of accumulated solid waste shall be carried out periodically by the project proponent.

- Monitoring of flows in the drain at designated monitoring location by installation of suitable flow measuring device viz. V-notch etc. In consultation with the designated authorities.

- Public awareness programme will also be planned to carry out to educate the local residents to avoid throwing the garbage into the drain.

After detailed discussions, EC considered the subject proposal estimated costing of INR. 7,65,13,040 for both Rajghat and Ramnagar drains and approved the proposal for according AA & ES for “Treatment of Ramnagar drain using Enzyme based bioremediation under the head of “Research, Studies, Pilot & Training, Workshop, Seminar, Publication etc.” as a part of overall Research and Development component” for an estimated amount of INR 4,32,62,200 (Four Crore Thirty Two Lakhs, Sixty Two Thousand & Two Hundred Only).

The similar proposal for Rajghat drain was not approved in view of certain development at site regarding pumping station getting commissioned and also other clarifications.

Above approval is subjected to following conditions-

1. A Technical Monitoring Committee may be constituted for monitoring of the project. The said committee may consist of following members-
   - One representative from CPCB / concerned SPCB
   - One representative from concerned state SPMG
   - One representative from concerned state government Urban Local Body (ULB)
   - One representative from IITs / NITs/ other reputed technical institute near the project site.

2. A monitoring protocol is to be prepared by taking inputs from all stakeholders viz.
   concerned municipal corporation/ULBs, SPMG and State Pollution Control Board (SPCB)

3. The agency will monitor flow in the drain by installing a flow measuring device like V notch / flumes etc.
Agenda Item No. 4: - Treatment of Rampur Drain, Rampur UP using NSN technology based biooxygention under the head of “Research Studies, Pilot and Training, Workshop, Seminar, Publication etc. as a part of overall Research & Development Component

Project prepared by: – M/S TECHAiRMART.COM.

Project Type: - Pilot project for In-Situ treatment of drain using NSN- Technology based Bio Oxygenation

Drain Name- Rampur Drain

Project Cost:- INR Rs. 14,16,20,000 (Fourteen Crore, Sixteen Lakhs, Twenty Thousand only)

Project Duration:- 1 Year (First Month will be trial period which can be extended if necessary, after successful demonstration, project will continue up-to 12 months (inclusive trial period) and payment will be made on monthly reimbursement basis based on pro-rata basis against the per MLD cost for quantity of flow measured and treated in drain.

Financial Effect: 100% Central Sector

Scope of work-

- DOD down up to 70%
- DO levels up by 3 times
- Mitigated foul smell reduced H2S and CH4 emission level.
- E Coli reduced by up to 90%.
- Net Result: Cleaner Drain and Lower pollution into GANGA
- Decrease in Fecal Coli-form level by up to 75%
- Foul Odor Reduction.

- Scavenging and cleaning of drain area by ensuring the garbage, floating matter, debris and vegetation shall be cleaned manually from the river and transport to dumping at designated solid waste disposal site. The cleaning of accumulated solid waste shall be carried out periodically by the project proponent.

- Monitoring of flows in the drain at designated monitoring location by installation of suitable flow measuring device viz. V-notch etc. In consultation with the designated authorities.

- Public awareness programme will also be planned to carry out to educate the local residents to avoid throwing the garbage in to the drain

After detailed discussion, EC decided that the proposal may be reviewed to make at site assessment of quantity of flows in main drain and its contributing sub-drains and also the location where appropriate bioremediation intervention may be taken up. The proposal may therefore be taken up for consideration in subsequent EC Meeting.
Agenda Item No. 5: – Treatment of Assi River, Varanasi using bioremediation under the head of “Research Studies, Pilot and Training, Workshop, Seminar, Publication etc. as a part of overall Research & Development Component

Project prepared by: – M/s Indian National Trust for Art and Cultural Heritage (INTACH).
Project Type:- Pilot project for In-Situ Bioremediation of Drain
Drain Name- Assi River
Flow in Drain: - 70 MLD
Project Cost: - INR 4,13,88,000 (Four Crore Thirteen Lakhs Eighty Eight Thousand Only)
Project Duration: - 1 Year (First Month will be trial period which can be extended if necessary, after successful demonstration, project will continue up to 12 months (inclusive trial period) and payment will be made on monthly reimbursement basis based on pro-rata basis against the per MLD cost for quantity of flow measured and treated in drain.
Financial Effect: 100% Central Sector

Scope of Work:

The proposal is for in situ bioremediation treatment of the Assi river in Varanasi starting to End point length is approx. 4-5 KM with 66 MLD flow.

- Scavenging and cleaning of drain area by ensuring the garbage, floating matter, debris and vegetation shall be cleaned manually from the river and transport to dumping at designated solid waste disposal site. The cleaning of accumulated solid waste shall be carried out periodically by the project proponent.
- Monitoring of flows in the drain at designated monitoring location by installation of suitable flow measuring device viz. V-notch etc. In consultation with the designated authorities.
- Public awareness programme will also be planned to carry out to educate the local residents to avoid throwing the garbage in to the drain

After detailed discussion, EC approved the proposal for according AA & ES for “Treatment of Assi River, Varanasi using bioremediation under the head of “Research Studies, Pilot and Training, Workshop, Seminar, Publication etc. as a part of overall Research & Development Component” for an estimated amount of INR 4,13,88,000 (Four Crore Thirteen Lakhs Eighty Eight Thousand Only). The project has been considered to be funded under National Ganga Plan (NGP).

Above approval is subjected to following conditions-

4. A Technical Monitoring Committee may be constituted for monitoring of the project. The said committee may consist of following members-
- One representative from CPCB / concerned SPCB
- One representative from concerned state SPMG
- One representative from concern state government Urban Local Body (ULB)
- One representative from IITs / NITs/ other reputed technical institute near the project site.

5. A monitoring protocol is to be prepared by taking inputs from all stakeholders viz. concerned municipal corporation/ULBs, SPMG and State Pollution Control Board(SPCB)

6. The agency will monitor flow in the drain by installing a flow measuring device like V notch / flumes etc.

**Agenda Item No. 6: “Reconstructing the Ganga of the Past from Corona archival imagery”**

- Project Cost: Rs 4096800/-
- DPR appraised by National Remote Sensing Centre/ISRO, Hyderabad
- Project Outcomes:
  1. Web based archive of corrected historic images of the Ganga River for documenting the reference condition of this river.
  3. Workshops that will build capacity within India for declassified image processing.

- Completion time

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<thead>
<tr>
<th>Work Package</th>
<th>River</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Ganga main stem</td>
<td>10 months</td>
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<tr>
<td>2</td>
<td>Ramganga &amp; Gomati</td>
<td>04 months</td>
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<tr>
<td>3</td>
<td>The Ganga Atlas</td>
<td>06 months</td>
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<tr>
<td>4</td>
<td>Training/Workshop</td>
<td>04 months</td>
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_Presentation on “Reconstructing the Ganga of the Past from Corona archival imagery” was made by Prof. Rajiv Sinha, Department of Earth Science, IIT Kanpur. After detailed discussion, Executive Committee (EC) approved the proposal for according Administrative Approval and Expenditure Sanction (AA&ES) for project entitled “Reconstructing the Ganga of the Past from Corona archival imagery”. The project has been considered to be funded under National Ganga Plan (NGP)._
Recommendations:

I. All the processed corona images will be hosted at IIT Kanpur initially but will also be hosted on NMCG server as well as Bhuvan Ganga geoporta simultaneously.

II. Digital copy and hard copies of atlas of the Ganga River showing its form and characteristics during 1960s and at present will be delivered. Each page of this atlas will cover an important window of the Ganga river, apart from the images. This will also present the data on morphometric parameters and land use/land cover changes with population statics, major livelihood & other socioeconomic data.