

Mi/24/2020-HR NMCG
भारत सरकार/Government of India
जल शक्ति मंत्रालय Ministry of Jal Shakti
Department of Water Resources, RD & GR
राष्ट्रीय स्वच्छ गंगा मिशन
(National Mission for Clean Ganga)

1st Floor, Maj. Dhyanchand National Stadium
Near India Gate, New Delhi – 110001
Dated: 13th January, 2023

Sub: Minutes of 46th meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 23rd December, 2022 through hybrid mode.

Please find enclosed the minutes of 46th meeting of the Executive Committee (EC) of National Mission for Clean Ganga held on 23rd December, 2022 at 11.00 AM through hybrid mode for information and necessary action.


13/1/2023
(Kanchan Bala Hamza)
Deputy Secretary

To

1. Joint Secretary (PFC-I/PF-States), Department of Expenditure, Ministry of Finance, North Block, New Delhi-110001
2. JS & FA, DoWR, 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. 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, Babu 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 Executive Directors of NMCG

Copy to :

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

Minutes of 46th meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) held on 23rd December 2022 through hybrid mode

The 46th meeting of the Executive Committee (EC) of National Mission for Clean Ganga (NMCG) was held on 23rd December 2022 at 11.00 AM 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 46.1: Pollution Abatement work for Rejuvenation of River Adi Ganga, Kolkata, West Bengal under Namami Gange Program

NMCG had sanctioned a project for Pollution Abatement & Rehabilitation of Tolly's Nullah (Adi Ganga), Kolkata (Interception & Diversion with PS and STP) in West Bengal State, at a cost of Rs. 307.12 Cr. dated 17.08.2017. The AA&ES for the project on pollution was accorded under EAP component under Namami Gange project. The tender was initially invited in the month of April 2018 and due to various site specific reasons, the bid due date was extended several times. Later on the request of Govt of West Bengal, the project delivery mode of Tolly Nullah project was changed from HAM mode to Design, Build, Operate & Transfer (DBOT) model.

The 2nd time tender was invited in the month of Dec 2019. KMC received the single bid, the technical bid evaluation report (TBER) was received from KMC in March 2021. Thus after the approval of TBER from World Bank, financial bid was opened, which was approximately 90% more than the estimated cost/put-to-bid value. Consequently, Tolly Nullah tender was cancelled by World Bank due to high bid received. The World Bank advised KMC/WBSPMG for preparing fresh DPR and include eligible items only and the project may be moved from Ganga I to Ganga II.

Accordingly, based on the observations of World Bank, KMC/WBSPMG has revised the DPR of Tolly's Nullah Project. The total revised cost of the project including 15 years O&M is Rs. 934.76 Crore.

The revised DPR was sent to IIT Roorkee for third party appraisal. IITR has examined the DPR technically and financially. IITR has recommended the cost of Rs. 653.67 Crs against 934.76 Crs DPR cost.

- **DPR appraised by IIT Roorkee**
- Financial Effect: Central Share as 100% of project cost
- Project Status: Design Build Operate Transfer (DBOT) basis
- Completion period – 30 Months
- **Major components: -**
 - S&D Network – 23505 Mtr
 - STPs, - 3 nos. (10 MLD, 11.60 MLD 3.5 MLD)
 - Pressure Main (including 4 nos. of Trestle Bridge)- 25952 Mtr
 - Sewage pumping stations (new)- 7 nos.
 - Mini sewage pumping station (new)- 5 nos.
 - Renovation of existing SPS- 11 nos.

- New Penstock Gates – 6 nos.
- Upgradation / renovation of Penstock Gates -68 nos.
- O&M for 15 Years

The original sanction T-15/2017-18/050/NMCG dtd. 17th August 2017 has been withdrawn.

After detailed discussions Executive Committee (EC) decided to approve the proposal for according administrative approval and expenditure sanction (AA&ES) for DPR for Pollution Abatement work for Rejuvenation of River Adi Ganga, Kolkata in West-Bengal under Namami Gange Program for an estimated amount of Rs 653.67 Crores (including cost of O & M for 15 years – Rs 199.60 Crores) under DBOT mode.

It was also resolved 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 EAP (World Bank) Component of Namami Gange Program. The State Government would ensure the availability of land in its possession before awarding the works. The State need to submit a revised DPR, before bidding, incorporating Third Party Agency's recommendations. NMCG logo and name to be inscribed at strategic locations.

The 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 be borne by the State and not by NMCG. Executing agency/SPMG must complete the work within stipulated time. EC also directed Executing agency/SPMG that the tender works must be awarded within six months from the date of issue of AA&ES.

EC has directed that the scope of upgradation/rehabilitation must be clearly mentioned in tender for avoiding the delay in tendering process.

The EC has directed that the state has to ensure that dredging of nallah work (not included in the DPR) would be done every year. Further, budget allocated for the dredging would be shared with NMCG. The small domestic drains would be plugged and the banks of Adi Ganga kept free of encroachments. EC has also inquired about encroachment free ROW for pipe laying work. The state has assured that the ROW is barrier-free.

SPMG confirmed that after implementing of this project, no untreated drains will fall into the river Ganga from the considered zone 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 would pari-pasu implement the project for reuse of treated wastewater for agriculture & industrial purpose. For this purpose, state government should frame a policy document and make serious efforts for reuse of treated wastewater accordingly.

Agenda 46.2: Additional cost arose for implementation of 3 projects (Halisahar, Budge-Budge & Barrackpore).

SPMG requested for sharing of additional cost arising from implementation of 3 projects (Halisahar, Budge-Budge & Barrackpore). The additional cost component is on account of 4 heads (Total: Rs 206.63 Cr):

Tender awarded at above AA&ES/ Additional Works: Rs 87.34 Cr.

Price Escalation : Rs 64.03 Cr.

Utility Shifting : Rs 14.02 Cr.

GST Impact : Rs 41.06 Cr.

Total project cost has increased by Rs 206.63 Cr. These projects being old projects (70:30), NMCG's liability was only upto 70% of the AA&ES cost and thus state was requested to bear these additional expenditures. However, NMCG has agreed to bear the GST impact in 70:30 ratio and same was communicated to the State. NMCG has already released demanded fund against GST component.

NMCG suggested that entire remaining additional expenditure may be borne by the State but SPMG/state has expressed its difficulty to get the sanction from state finance as such provision of escalation etc are not in other state funded projects, however these 3 projects, being EAP projects, these components were made part of the agreement, as per World Bank/NMCG MBD condition.

The additional cost implication of the project in 3 towns is as follows:

Cost in Cr. Rs

Sl.no.	Name of the project	Addl. cost for Works (a)	Price Escalation (b)	Utility Shifting (c)	GST Impact (d)	Total
1	Halisahar	19.19	19.17	3.12	16.32	57.8
2	Barrackpore	13.57	31.80	6.85	17.14	69.36
3	Budge Budge	54.58	13.06	4.23	7.60	79.47
	Total	87.34	64.03	14.2	41.06	206.63

Proposal:

NMCG shall bear 70% of Price Escalation, Utility shifting and GST impact (b+c+d = Rs 119.29 Cr. and 70% of Rs 119.29 Cr. comes out Rs 83.50 Cr.). NMCG liability shall increase by Rs 83.50 Cr.

State shall bear 100% of Additional works (not included in the original cost Rs 87.34 Cr. and 30% of Price Escalation, Utility shifting and GST impact (b+c+d = Rs 119.29 Cr. and 30% of Rs 119.29 Cr. comes out Rs 35.79 Cr.). Total State share shall increase by Rs 123.13 Cr.

After detailed discussions, Executive Committee (EC decided to approve the proposal for according administrative approval and expenditure sanction (AA&ES) for Additional cost Rs. 83.50 Cr. which has arisen from implementation of 3 projects (Halisahar, Budge-Budge & Barrackpore). EC approved the additional cost with condition that state shall bear its share of Rs 123.13 Cr. It was also decided that State

would ensure Household sewer connections in a mission mode within a certain timeline.

Agenda 46.4: Afforestation programmes for the Year 2022-23 in the States of Uttarakhand and Bihar under Namami Ganga Mission –II.

Dr. Sandeep Behera, Consultant (Biodiversity), NMCG apprised the EC on the proposals for afforestation submitted by the State Forest Departments (SFDs) of Uttarakhand and Bihar for the year 2022-23 in line with the DPR prepared by FRI, Dehradun on "Forestry Intervention for Ganga" at a total cost of Rs. 4280.37 lakhs. The duration for implementation of the project will be 1 year from the date of sanction. APOs (Annual Plan of Operations)/proposals for Uttar Pradesh, Jharkhand and West Bengal for 2022-23 have already been sanctioned. The submitted APOs have been reviewed internally and modified in line with the FRI DPR.

Thereafter, Dr. Vijay Kumar, APCCF cum Project Director, Namami Gange project, Uttarakhand and Mr. Sudhir Kumar, CCF cum Director, Hariyali Mission, Bihar gave detailed presentations on the respective proposals.

Dr. Vijay Kumar, APCCF, SFD, Uttarakhand initially gave an account of the previous works taken-up under Namami Gange programme. The present APO for FY 2022-23 at a cost of Rs. 1691.79 Lakhs is in line with the FRI DPR and focusses on Agriculture Landscapes (AL) and Urban Landscapes (UL). He explained that till date 1412.85 ha of AL has been done and in year 2022-23 the Forest Department intends to take up another 1500 ha of afforestation in AL. He also added that as directed by NMCG, CAMPA was approached for Natural Landscape (NL) and Conservation Interventions (CI) work, and approval has been obtained for the first plot of 1400 ha to do advance soil work.

DG, NMCG enquired if the monetary contribution for AL component will be 100% by NMCG or will there be any farmer's contribution. Dr. Vijay responded by elaborating that the farmers are given saplings for fruit trees @Rs. 100/sapling, and if they maintain it well for 4 years, another @ Rs. 100 per sapling will be provided for the next 4 years. He further added that in the Mid-Term Evaluation report, Indian Institute of Forest Management (IIFM), Bhopal had appreciated the efforts of Forest Department in raising earlier plantation and has suggested for scaling up these works.

DG, NMCG enquired as to how the new plants (as part of creation) would be distinguished from the existing plants in the landscape, to which APCCF, Uttarakhand responded that the trees will be geo-tagged and monitored. ED (Admin), NMCG suggested that the SFD take up plantation of timber trees having commercial value in agroforestry instead of fruit trees, as it will help in enhancement of livelihoods as well as restoration of biodiversity and conservation of the landscape. However, SFD, Uttarakhand expressed its inability to take-up agroforestry works due to small land holdings in hilly areas and also the preference of farmers for getting better income from fruit trees.

On a query from JS&FA, MoJS about cost justification, APCCF, Uttarakhand clarified that unit costs in the proposal are based on the scheduled rates approved by the Government of Uttarakhand.

Later, Mr Sudhir Kumar, CCF cum Director, Hariyali Mission, State Forest Department (SFD), Bihar gave a detailed presentation on the afforestation programme for the year 2022-23. He informed that the submitted APO for FY 2022-23 is in line with the DPR prepared by FRI, Dehradun for "Forestry Intervention for Ganga" at a cost of Rs. 2588.58 Lakhs. The advance work proposed in the APO includes new plantation, linear plantation and institutional plantation. He also informed in the meeting that SFD, Bihar is following the recommendation made by IIFM, Bhopal in their Mid-Term Evaluation report for forestry interventions under Namami Gange.

DG, NMCG stated that a Core Task Group constituted by NMCG will monitor the progress of the projects, monthly progress report is to be provided, geo-tagged data is to be presented, and after two years a positive outcome is expected. ED (Technical) desired that the Forest Departments share the shape files of work done to NMCG to avoid any duplication.

On a query from the members, it was informed that in the recent meeting between the MoJS & MoEF&CC held on 30th November 2022, it was decided that afforestation activities for Uttarakhand, Bihar, Jharkhand & West Bengal may be done under CAMPA funding, while afforestation for Uttar Pradesh would be undertaken under the Namami Gange programme.

On the issue raised by JS & FA, MoJS on need of plantation in institutional areas in urban landscape, it was informed by the SFDs that saplings are provided free of cost to the institutions while maintenance is the responsibility of the concerned institution. ED (Admin) suggested that in the agriculture landscape, emphasis on agroforestry should be given for livelihood enhancement along with ecosystem restoration. The officers of SFD, Uttarakhand & Bihar stated that this would be considered in future based on land availability.

The State Forest Departments will be the nodal agency for the implementation of the project.

State-wise break-up of the proposed APOs is as follow:

Forestry Intervention for Ganga-2022-23 in Uttarakhand & Bihar							
STATE	Maintenance works		Establishment/ Plantation works		Support Activity (cost Rs. in lakh)	Total	
	Maintenance of 1st, 2nd, 3rd & 4th year (Area in ha.)	Cost (Rs. in lakh)	Plantation (area in ha.)	Cost (Rs. in lakh)		Area in ha.	Cost (cost Rs. in lakh)
Uttarakhand	5859.95	920.95	1600.75	730.84	40.00	7460.70	1691.79
Bihar	4568.55	980.66	956.75 +180 Institute (100 Plants per Institute)	1587.92	20.00	5525.30	2588.58
Total	10428.50	1901.61	2557.50	2318.75	60.00	12986.00	4280.37

DECISION:

After detailed discussions, the Executive Committee (EC) approved the proposal for issuing administrative approval and expenditure sanction (AA&ES) to implement the project through the State Forest Departments of Uttarakhand and Bihar at an estimated cost of Rs. 4280.37 lakhs (Uttarakhand- Rs. 1691.79 lakhs and Bihar- Rs. 2588.58 lakhs). EC desired that the recommendations of IIFM, Bhopal would be implemented by the respective States for sustainability of the plantations and increase in forest cover, which will further help in rejuvenation of river Ganga and its tributaries.

Agenda 46.5: DPR for Interception & Diversion (I&D) and STP works at Lucknow, Phase-II Part-I, Uttar-Pradesh under Namami Gange Program

- **DPR appraised by IIT Roorkee**
- Financial Effect: Central Share as 100% of project cost
- Project Status: Design Build Operate Transfer (DBOT) basis
- Completion period – 24 Months
- **Major components**
- 50 MLD STP at Loniapurva.
- 3 nos. I&D (Faizullaganj U/S, Faizullaganj D/s drain and Maheshganj drain).
- 1 no. SPS at Faizullaganj U/S.
- Rising main 3.5 Km
- 15 Years O&M.

After detailed discussions Executive Committee (EC) decided to approve the proposal for according administrative approval and expenditure sanction (AA&ES) for DPR for Interception & Diversion (I&D) and STP works at Lucknow, Phase-II Part-I, Uttar-Pradesh under Namami Gange Program for an estimated amount of Rs 264.67 Crores (including cost of O & M for 15 years – Rs 118.59 Crores) under DBOT mode.

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) – Non-EAP component of Namami Gange Program. The State Government would ensure the availability of land in its possession before awarding the works. State need to submit a revised DPR, before bidding, incorporating Third Party Agency's recommendations. NMCG logo and name to be inscribed at strategic locations.

The 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 be borne by the State and not by NMCG. Executing agency/SMCG must complete the work

within stipulated time. EC also directed Executing agency/SMCG that the tender works must be awarded within six months from the date of issue of AA&ES.

EC directed that the scope of upgradation/rehabilitation must be clearly mentioned in tender for avoiding the delay in tendering process.

SMCG confirmed that after implementing of this project, no untreated drains will fall in the river Gomti from the considered zone 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 would pari-pasu implement the project for reuse of treated wastewater for agriculture & industrial purpose. For this purpose, state government should frame a policy document and make serious efforts for reuse of treated wastewater accordingly.

Agenda No 46.6: Interception, Diversion of Balance 7 drains and Augmentation of Rajapur STP Capacity by 90 MLD (Sewerage District D) at Prayagraj Under Namami Gange.

- DPR appraised and recommended by MNNIT, Prayagraj.
- Project Cost: ₹ 475.98 Crore including O&M for 15 years (Capital Cost - ₹ 258.09 Crore; O&M Cost - ₹ 217.89 Crore)
- Major components: -
 - i. Construction of Nala Tappings - 7 Nos.
 - a) Shankar Ghat Nala
 - b) Shankar Ghat Nala -I
 - c) Shankar Ghat Nala -II
 - d) Jondhwal Nala
 - e) Jwala Devi/ ADA Colony Nala
 - f) Rajapur Nala
 - g) Sadar Bazar Nala
 - ii. Gravity Interceptor Sewer– **4200 m**
 - a. Sankarghat nala to Rajapur SPS (450mm to 1500mm dia) – 2800 m (**including 100 m micro-tunneling 1500 mm dia) with 94 nos. manholes**)
 - b. Sadra Bazar nala to new Rajapur SPS (600mm dia) – 1400 m (**including 100 m micro-tunneling 600 mm dia) with 48 nos. manholes**)
 - iii. Sewage Pumping Stations (New) - **2 Nos.**
 - a. [Rajapur SPS (56 MLD in 2039 / 74 MLD in 2054);
 - b. [Mumfordganj SPS (39 MLD in 2039 / 59 MLD in 2054)
 - iv. Rising Main (DI **1000 mm**) - 3450 m.
 - a. Rajapur SPS to STP (DI 1000mm) – 250m
 - b. Rajapur SPS to STP (DI 1000mm) – 3200m including 300 m microtunneling under bund
 - c. Shifting of existing 150m rising main in STP campus
 - v. Sewage Treatment Plant – 1 No. 90 MLD, along with 20 KLD faecal sludge co-treatment facility

- vi. **Effluent Pumping Station – 1 No. (90 MLD)**, including 250 m rising main (DI 1000m)
- vii. Gravity effluent pipeline (1800 mm) – **300 m.**
- viii. Online Monitoring system for STP – 1no.
- ix. DG sets, Transformers, panels, SCADA and associated building, staffquarters (at pumping stations).
 - O&M for 15 years Operation & Maintenance for 15 years
 - Financial Effect: Central Share as 100% of project cost.
 - Project Status: DBOT mode
 - Completion period – 24 Months

The proposal was placed before Executive Committee (EC) for according the approval to proposed I&D of Balance 7 drains and Augmentation of Rajapur STP Capacity by 90 MLD (Sewerage District D) at Prayagraj Under Namami Gange at an estimated cost of ₹ 475.19 Crore. The project shall help in abating the pollution in river Ganga at Prayagraj.

State Govt. confirmed that

- i. Land for the project is available at Rajapur STP complex.***
- ii. The design/ capacity is in consideration of the flow measurements and its projections for 15 years.***

After detailed discussions, Executive Committee (EC) decided to approve the proposal for according administrative approval and expenditure sanction (AA&ES) for Interception, Diversion of Balance 7 drains and Augmentation of Rajapur STP Capacity by 90 MLD (Sewerage District D) at Prayagraj with O&M for 15 years under Namami Gange Program for an estimated amount of ₹ 475.98 Crores (Capital Cost - ₹ 258.09 Crore; O&M Cost - ₹ 217.89 Crore), including GST under DBOT mode under NGP-Non EAP funding, subject to the following conditions:

- i. The treated effluent shall conform to the NGT directed discharge standards. The sludge shall comply with Class A category.***
- ii. After commissioning of this project, there will be no untreated sewage discharge flowing into River Ganga through Sewerage District D, Prayagraj during the project design period of 15 years.***
- iii. Cost escalation due to delay in land acquisition, change in location; additional scope post EC approval and any other factors attributable to State Government and defects in DPR shall be the responsibility of the State Government and shall not be borne by NMCG.***
- iv. Executing agency/SMCG-UP must complete the work within stipulated time and accordingly works tender may be awarded within three months from the date of issue of AA&ES.***
- v. Observations of NMCG and 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.***

Agenda Item No. 46.9: Post facto approval of Executive Committee for “Aerial acquisition of Ramganga river basin for assessment of environmental flow by UAV technology”.

Administrative approval & expenditure sanction for the project “Aerial acquisition of River Ramganga Basin for assessment of environmental flow by UAV technology” at an estimated cost of INR 35,25,250/- (Rupees thirty-five lakh twenty-five thousand and two hundred fifty only) under Namami Gange Program for the duration of 6 months was issued to IIT Kanpur on 12.05.2022. The project stands completed. The output has been delivered.

After discussions, the proposal was approved by the Executive Committee of NMCG for the post facto approval of the project on “Aerial acquisition of Ramganga river basin for assessment of environmental flow by UAV technology” at an estimated cost of INR 35,25,250/- (Rupees thirty-five lakh twenty-five thousand and two hundred fifty only) under Namami Gange Program.

Agenda no. 10: “Revised Administrative Approval and Expenditure Sanction towards Additional Cost for I&D and STP (8 MLD) scheme at Mokama, Bihar”

- The project for I&D and STP (8 MLD) scheme of Mokama town was sanctioned on 28.07.2017 at a cost of **Rs 53.80 Crore** and revised AA&ES was issued on 06.03.2019 at a cost of **Rs 60.91 Cr.** (including award cost, centage, ESMAP and communication costs) with 15 years Operation and Maintenance and 100% central funding. The cost revision was done after completion of bidding and award of work to the L-1 bidder M/s EMS-Singh (JV) at a cost of **Rs 59.17 Cr.**
- The STP and IPS works have been completed and overall 92% progress has been achieved till 30.11.2022.
- NMCG received request from SPMG Bihar to bear additional cost to a tune of **Rs 12.49 Cr.** due to:
 - (i) Additional Scope of Work (Trenchless Pipeline for railway crossing+ RCC culvert and RCC hume Pipe) : **Rs 5.34 Cr.**
 - (ii) Design Modification at STP and SPS site (Ancillary works at STP site, rising main and additional box drain): **Rs 4.81 Cr.**
 - (iii) Price Escalation: **Rs 1.28 Cr.**
 - (iv) GST: **Rs 1.06 Cr.**
- It was observed that the variation to a tune of Rs 8.3 Cr. was solely due to change of STP and SPS land change and state government was requested for bearing this cost due so such changes of land.
- SMCG vide letter dated 13.10.2022 clarified that the land change was inevitable due to NGT which mentions that the STP land must be 500 m away from the river leading to change in location of STP land and associated infrastructure costs.
- **Proposal:** Approval of the cost variation to a tune of **Rs 12.49 Cr.** due to the reasons mentioned above. The revised AA&ES value became **Rs 73.40 Cr.** with 100% central share.

After detailed discussions, Executive Committee (EC) decided to approve the proposal for according Revised administrative approval and expenditure sanction (AA&ES) for I&D and STP scheme at Mokama, Bihar under Namami Gange Program at a revised cost of Rs 73.40 Crores (including cost of O & M for 15 years) with 100% central support. O & M beyond project scope i.e. after 15 years shall be the responsibility of State Government/ ULB at its own cost. It was further decided that additional cost due to any change in land location and other associated cost increase would be borne by the State Govt.. It was further decided that the project would be completed at the earliest.

Agenda no. 11: “Revised Administrative Approval and Expenditure Sanction towards Additional Cost of I&D and STP (3.5 MLD) scheme at Sonapur town, Bihar”

- The project for I&D and STP (3.5 MLD) scheme at Sonapur town was sanctioned on 14.09.2018 at an estimated cost of **Rs 30.93 Crore** with 15 years Operation and Maintenance cost with 100% central funding and the project was awarded to M/s SG Construction & M/s. SN-Enviro-Tech Pvt. Ltd. (JV) and agreement was signed on 04.06.2019 at a cost of **Rs 29.35 Cr.**
- At present the project is complete and commissioned from October 2022.
- NMCG received 2 variation requests from SPMG Bihar for the project. The 1st variation was to a tune of Rs 3.84 Cr. and the 2nd was to a tune of Rs 2.95 Cr. which was recommended to NMCG by the executive agency BUIDCo and SPMG. The break of total variation of **Rs 6.79 Cr.** is given below:
 - i. 4 nos. of additional outfall manhole (Type B): **Rs 0.11 Cr.**
 - ii. 6 additional outfall structures: **Rs 0.08 Cr.**
 - iii. 40 m trenchless pipeline below railway line: **Rs 0.58 Cr.**
 - iv. Addition of sewer network of 2044m (including 445 m of trenchless works): **Rs 5.34 Cr.**
 - v. Variation in O&M Cost: **Rs 0.72 Cr.**
 - vi. Discount offered by DBOT agency: **-Rs 0.04 Cr.**
- The other impacts related to GST and Price escalation have not been claimed from NMCG. It has been informed that there will be another variation due to GST impact for which necessary calculation is being finalized by the state agencies.
- Out of this overall variation of Rs 6.79 Cr., the 1st variation of Rs 3.84 Cr. is already approved due to easing the project process and faster completion of works.
- **Proposal:** Ratification of already approved variation –I for amount of **Rs 3.84 Cr.** and approval of additional variation to a tune of Rs 2.95 Cr. Total approval sought is for **Rs 6.79 Cr.** (Rs 3.84 Cr. +RS 2.95 Cr.). The revised AA&ES value became as **Rs 38.24 cr.** with 100% support from central government.

After detailed discussions., Executive Committee (EC) decided to approve the proposal for according Revised administrative approval and expenditure sanction (AA&ES) for Sonapur I&D and STP scheme (3.5 MLD) at Sonapur, Bihar, at a revised cost of Rs 38.24 Crores (including cost of O & M for 15 years – Rs 15.88 Crores) with 100% central

support. O & M beyond project scope i.e. after 15 years shall be the responsibility of State Government/ ULB at its own cost.. It was further decided that additional cost due to any change in land location and other associated cost increase would be borne by the State Govt.. It was further decided that the project would be completed at the earliest.

Agenda no. 46.12: “Interception and Diversion (I&D) of drains and Sewage Treatment Plant works for Daudnagar town in Bihar”

- DPR - Appraised by: IIT-Roorkee
- Project Cost Approved: **Rs 42.25 Crores** including O&M for 15 years and GST
- Land: NOC of the land for the STP has been obtained.
- Pollution Abatement of River Sone, tributary of river Ganga
- Project component:
 - ✓ Development of 1 STP (STP - 1: **10.5 MLD**) including necessary ancillary infrastructures, UV disinfection, SCADA and online monitoring system
 - ✓ 1 no. of nala tapping
 - ✓ Diversion Sewer line of 349 m
 - ✓ Effluent channel Disposal of treated effluent through pipeline of 513 m
 - ✓ 15 years Operation & Maintenance
 - ✓ Environment plan during construction and operation phase
- 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

After detailed discussions, EC approved the project at a cost of Rs 42.25 Cr. in DBOT mode including cost of O&M for 15 years after operationalization of the project. It was also decided that the tender works would be awarded within three months from the date of issue of AA&ES and project would be completed in 21 months after the award of work. Consequently, total time for completion of the project including tendering will be 24 months (excluding three months for trial run).

It was also decided that the observations of NMCG and TPA would be complied with 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 flow into the river Ganga from the town etc.

At present the NOC for STP land has been received. It was decided that any land NOC if still remains must be taken immediately and a copy shall be provided to NMCG before bidding and bids need to be invited on technology-neutral basis. Further, no-additional drains to 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 and 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/feacal 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 (10.5 MLD), therefore the project will be taken up under DBOT mode.

It was also directed to install solar power plants in the STP and SPS premises to reduce the O&M cost to some extent.

Cost escalation due to change of land, change in location, additional scope post EC approval and any other factors attributable to State Government shall be the responsibility of the State Government.

State Government need to ensure the compliance of treated water quality as well as other environmental norms (such as compliance with prescribed noise level etc.) in STP area shall be assessed upfront and suitably addressed during the design stage.

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

Agenda no. 46.13: "Interception and Diversion (I&D) and Sewage Treatment Plant scheme for Motihari town, Bihar"

- DPR - Appraised by: NIT - Patna
- Project Cost Approved: **Rs 149.15 Crores** including O&M for 15 years
- Land: NOC of the lands for the STPs has been obtained.
- Pollution Abatement of River Burhi Gandak, tributary of river Ganga
- Project component:
 - ✓ **Interception and diversion drains:**
 - Construction/repair of missing/broken existing peripheral drains of Motijheel (550 m)

- Interception points near Ugam Pandey College & opposite to Molvi Sahab Kirana Dukan, Balua- Chandmari Road and gravity flow diversion sewers of length 2054 m (1093 m + 961 m)
 - Interception point near RJ Plaza Shopping Mall, Main Road Bagaha Dhala Road and gravity flow diversion sewer of length 211 m
 - Interception points near Yogendra Giri Sewa Ashram & near Laxmi Tent House, Agarwa Main Road and gravity flow diversion sewers of length 1886 m (508 m + 1378 m)
 - Near Vishnu Mandir, Chhatauni and gravity flow sewer of length 712 m
 - Laying of interception drain (RCC pipe) of length 850 m from proposed pumping station (near Rolling club) to pumping station 2.
 - Total: 6263 m
- ✓ **Three pumping stations:**
- Capacity 3.23 MLD near Gayatri Mandir, Shrikrishna Nagar Road
 - Capacity 4.00 MLD Near Woodland Showroom, State Highway 54, Bhawanipur Zirat with sewer drain of length 1571 m.
 - Capacity 0.84 MLD, Near Rolloing club with sewer drain length of 850 m
- ✓ **Four STPs:**
- 4.6 MLD (Near Motihari fire station)
 - 6.3 MLD (Opposite to V Mart, Bagha Dhala road)
 - 5.8 MLD (Near Briarpur Maharshi Nagar) and
 - 6.3 MLD (Near Refugee colony)
 - Total: 23 MLD
- ✓ **Outfall drains of length 97 m (STP 1), 392 m (STP 2), 75 m (STP 3) and 72 m (STP 4) -Total: 636 m**
- ✓ **15 years Operation & Maintenance**
- ✓ **Environment plan during construction and operation phase**
- Completion Time: 33 Months (including bidding)
 - Financial Effect: 100% Central Sector
 - Bidding Process: DBOT Mode
 - Effluent Characteristics: As per the latest NGT's direction on effluent standard

After detailed discussions, EC approved the project at a cost of Rs 149.15 Cr. in DBOT mode including cost of O&M for 15 years after operationalization of the project. It was also decided that the tender works would be awarded within three months from the date of issue of AA&ES and project would be completed in 27 months after the award of work. Consequently, total time for completion of the project including tendering will be 30 months (excluding three months for trial run of STP).

It was also decided that the observations of NMCG, TPA would be complied with 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 flow into the river Ganga from the town etc.

At present the NOC for STP land has been received. It was decided that NOC for the land must be obtained immediately and a copy provided to NMCG before bidding and bids need to be invited on technology-neutral basis. Further, no-additional drains to 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 and 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/feacal 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 (4.6 MLD, 6.3 MLD, 5.8 MLD and 6.3 MLD) and therefore the project will be taken up under DBOT mode.

It was also directed to install solar power plants in the STP and SPS premise to reduce the O&M cost to some extent.

Cost escalation due to change of land, change in location, additional scope post EC approval and any other factors attributable to State Government shall be the responsibility of the State Government.

State Government would ensure the compliance of treated water quality as well as other environmental norms (such as compliance with prescribed noise level etc.) in STP area shall be assessed upfront and suitably addressed during the design stage.

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

Agenda no. 14: "Revised Administrative Approval and Expenditure Sanction towards Additional Cost for Saidpur Sewerage Network, Bihar"

- The project for Saidpur Sewerage Network was sanctioned on 01.04.2015 at an estimated cost of **Rs 268.63 Crore** with 5 years Operation and Maintenance cost

with 70:30 sharing pattern between central and state government. NMCG' share was limited to **Rs 188.04 Cr.** and State share was **Rs 80.59 Cr.**

- As per the initial clause of the AA&ES, any cost overrun beyond the approved cost is required to be borne by the state government along with O&M from 6th year onward till 10th year.
- Project was awarded to M/s L&T and agreement was signed on 31st January 2021 at a cost of **Rs 431.30 Cr. (with 10 years O&M).**
- The corresponding value of AA&ES with respect to the awarded cost stands at Rs 450.18 Cr. with 10 years O&M. NMCG's share was limited to its original share of **Rs. 188.04 Cr.** Only, State share increased to **Rs. 262.14 Cr.**
- The project has been completed in December 2022 and partially commissioned. Currently, 20-25 MLD flow is transferred from this network zone to the already constructed Saidpur STP and the treated effluent is meeting NGT standards.
- NMCG received request from SPMG Bihar to bear additional cost to a tune of **Rs. 66.29 Cr.** due to (i) GST impact (Rs. 25.41 Cr.), (ii) Price escalation (Rs 22.84 Cr.) and (iii) Extra work (Rs 18.04 Cr.).
- NMCG had approved the GST implication amounting to Rs. 25.41 Cr. with central assistance limited to 70% i.e. Rs 17.79 Cr on 13th May 2020.
- Further, while reviewing the variation proposal, the proposal has been revised as per the following details:

S. No	Variation	Amount (Rs. in Cr.)
(i)	Variation in BOQ (Savings) in CAPEX	-37
(ii)	Savings in O&M Costs	-2.9
(ii)	Original Price escalation upto 38 th RA Bill	58.2
(iii)	GST impact of	25.4
	Sub-Total(A)	43.7Cr.
	Revised Contract Value	Rs 431.3+43.7= Rs 475 Cr.
	Revised AA&ES value	Rs 475+ Rs 18.85 (Centage+ (ESAMP+Communication costs)) = Rs 493.85 Cr.

- **Proposal:** Ratification of already approved additional GST implication of **Rs 25.41 Cr** approval of overall Variation request of Rs 43.7 Cr. Additional central share is 70% of Rs 43.7 Cr i.e. Rs 30.59 Cr.
- The revised AA&ES value became as **Rs 493.85 Cr.** with central share as **Rs 218.63 Cr.** (Rs 188.04 Cr.+ Rs 30.59 Cr.) and State share as **Rs 275.22 Cr.**

After detailed discussions., Executive Committee (EC) decided to approve the proposal for according Revised administrative approval and expenditure sanction (AA&ES) Saidpur Sewerage Network, Bihar under Namami Gange Program at a revised cost of Rs 493.85 Crores (including cost of O & M for 10 years of Rs 28.8 Cr) with central share limited to Rs. 218.63 Cr and remaining amount to be borne by state government. O &

M beyond project scope i.e. after 15 years shall be the responsibility of State Government/ ULB at its own cost.

Agenda no. 15: “Revised Administrative Approval and Expenditure Sanction towards Additional Cost for Pahari Sewerage Network Zone IVA (South) at Pahari, Bihar”

- The project for Pahari Sewerage Network Zone IVA (South) at Pahari was sanctioned on 22.07.2017 at an estimated cost of **Rs 184.86 Crore** with 15 years Operation and Maintenance cost with 100% central funding.
- Project was awarded to M/s EMS-Singh (JV) and agreement was signed on 11.05.2018 at a cost of **Rs 167 Cr.** The corresponding value of AA&ES stands at **Rs. 177.60 Cr.** (including centage, ESAMP, Communication etc.).
- The project has been completed in **May 2021** and commissioned.
- NMCG received variation requests from SPMG Bihar to bear additional cost to a tune of Rs. 59.02 Cr. as per the following break ups:

S. No	Variation	Amount (Rs. in Cr.)
1	1st Variation	
(i)	Variation in BOQ (Savings)	-12.51
(ii)	Extra Items	30.21
(iii)	Escalation over revised contract value	11.08
	Sub-Total(A)	28.78 Cr.
2	2nd Variation	
(i)	Variation in BOQ	30.24
	Overall Total	59.02 Cr.

- World Bank initially approved variation to a tune of **Rs 19.22 Cr.** on 14th April 2021 and provided some observations for approval of the 2nd tranche mainly due to casing pipes used for the trenchless works.
- Finally, SPMG proposed the 2nd tranche amount of **Rs 33.66 Cr.** after deduction of Rs 5.7 Cr. from the overall variation demand.
- World Bank approved the 2nd tranche and overall variation amount of **Rs 52.88 Cr.** on 13th January 2022.
- All these approvals are communicated to the State Government on 18th April 2022.
- **Proposal:** Ratification of already approved additional amount of **Rs 52.88 Cr.**
- The revised AA&ES value became **Rs 230.48 Cr.** with 100% central share.

After detailed discussions, Executive Committee (EC) decided to approve the proposal for according Revised administrative approval and expenditure sanction (AA&ES) Pahari Sewerage Network Zone IVA (South) at Pahari, Bihar under Namami Gange Program at a revised cost of Rs 230.48 Crores (including cost of O & M for 15 years-Rs

22.94 Cr) with 100% central support. O & M beyond project scope i.e. after 15 years shall be the responsibility of State Government/ ULB at its own cost.

Agenda no. 46.16: “Interception and Diversion (I&D) of drains and Sewage Treatment Plant works for Dhanbad town in Jharkhand”

- DPR - Appraised by: IIT-Roorkee
- Project Cost Approved: **Rs 808.33 Crores** including O&M for 15 years, GST and PE hiring cost
- Land: NOC for 3 STPs and One IPS & I&D works received. The remaining NOCs for the other 2 STPs and SPS/I&D works need to be obtained.
- Project component:
 - ✓ 7 nos. of nalah tapping
 - ✓ Interceptor sewers – 14,243 m
 - ✓ Rising mains – 13,300 m
 - ✓ Development of 3 pumping stations – (38.83 MLD, 6.81 MLD and 51.91 MLD) – 97.57 MLD
 - ✓ Development of 5 STPs - (18 MLD, 21 MLD, 75 MLD, 60 MLD & 18 MLD) – 192 MLD including necessary ancillary infrastructures, UV disinfection, SCADA and online monitoring system
 - ✓ Effluent channel Disposal of treated effluent through pipeline of 1150 m
 - ✓ 15 years Operation & Maintenance
 - ✓ Environment plan during construction and operation phase
- Time: 36 Months (including bidding)
- Financial Effect: 100% Central Sector
- Bidding Process: HAM Mode
- Effluent Characteristics: As per the latest NGT’s direction on effluent standard

After detailed discussions, EC approved the project at a cost of Rs 808.33 Cr. in HAM-PPP mode including cost of O&M for 15 years after operationalization of the project for the abatement of pollution in river Damodar (one of the major tributaries of Ganga). It was also decided that the tender works would be awarded within three months from the date of issue of AA&ES and project would be completed in 33 months after the award of work. Consequently, total time for completion of the project including tendering will be 36 months (excluding three months for trial run of STPs).

It was also decided that the observations of NMCG and TPA would be complied with 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 flow into the river Ganga from the town etc.

At present the NOC for few STPs and I&D/IPS land has been received. The remaining NOCs for the STP lands and I&D/IPS works need to be obtained immediately and a copy shall be provided to NMCG before bidding and bids need to be invited on technology-neutral basis. Further, no-additional drains to 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 and 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/feacal 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, as of now. State needs to submit a revised DPR, before bidding, based on Third Party Agency's recommendations complete with detailed designs and hydraulic analysis.

It was also directed to install solar power plants in the STP and SPS premise in order to reduce the O&M cost to some extent.

Cost escalation due to change of land, change in location, additional scope post EC approval and any other factors attributable to State Government shall be the responsibility of the State Government.

State Government need to ensure the compliance of treated water quality as well as other environmental norms (such as compliance with prescribed noise level etc.) in STP area shall be assessed upfront and suitably addressed during the design stage.

State Government further submitted that they are already in discussion with Tata Power for reuse of the treated waste water in Maithon Thermal power plant (1050MW) and necessary arrangements shall be made in place prior to completion of the sewerage scheme.

Agenda Item No. 46.20: Construction of Electric Crematorium in Barrackpore-West Bengal

- DPR appraised by IEST-Shibpur
- Project Cost- **Rs. 1.45 Crores** (including 5 years O&M)
- New Electric Crematorium (New Technology) - 1 no
- Completion time- 15 months (including bidding and awarding of project)
- Financial Effect- 100% central funding under NGP head of NMCG

- Implementing Agency- West Bengal NGRBA Program Management Group - SPMG
- Executing Agency- Municipal Engineering Directorate, Department Of UD & MA, West Bengal + Green Revolution Foundation
- Land to be provided by State Government

After the discussions, the proposal was approved by Executive Committee of NMCG for according Administrative Approval & Expenditure Sanction (AA&ES) by the competent authority at an estimated cost of Rs 1.45 Cr. (including 12 months 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. *Electric Furnace Works: Refractory line-1 Incinerator with Scrubber for Eco friendly cremation System (Stainless Steel Engraved Furnace, Wet Scrubber) – 1 Incinerator, 1 Scrubber, 1 Chimney and 1 Advanced Lifting Mechanism*
 - b. *Hall of 50 X 30 feet*
 - c. *Toilet Block, Office, Operators room, Pathway & Parking Area, Gate and 16 other relevant items to be taken up at State level.*
- (ii) *Suitable plantation and landscaping work would be undertaken.*
- (i) *O&M during 12 months is included in the sanctioned project scope.*
- (iii) *Post completion of O&M period by executing agency, ULB would put in place a revenue generation mechanism for sustaining the O&M activities.*
- (iv) *Issues pertaining to land, consultations with local authorities and observations from the State would be resolved before tendering with necessary evidence of such consultations.*
- (v) *SPMG West Bengal is the State Nodal Monitoring Agency for the project and funds for the projects will be routed to executing agency through SPMG WB.*
- (vi) *Before issuance of Tender drawings, approval from NMCG would be taken. NMCG should revert back its observation within 10 days of receipt of the drawings else submitted drawings shall be deemed approved.*
- (vii) *Executing Agency shall obtain NMCG approval before making any changes in the sanctioned scope.*
- (viii) *EC directed that strict compliance with time and cost shall be ensured by Executing/ Implementing Agency.*

Agenda Item No. 46.21: *Development of Ghat at Nageshwar Ashram Dham-Fatehpur – Uttar Pradesh*

- DPR appraised by MNNIT-Allahabad
- Project Cost- **Rs. 2.84 Crores** (including 6 months O&M)
- New Ghat Construction- 1 no
- Completion time- 18 months (including bidding and awarding of project)
- Financial Effect- 100% central funding under NGP head of NMCG

- Executing Agency- Uttar Pradesh Irrigation Department
- Land to be provided by State Government

A presentation on the proposal was made by the UP Irrigation Department. The drawings used in the presentation were very poor in details. Nothing could be comprehended from the drawings. The Executive Committee asked the presenter to improve upon the drawings and decided to take up the proposal in the next meeting of EC after improvement of drawings.

Agenda 46.22: ‘Scientific exploration of floral diversity near the Ganga River banks for ethnobotanical purposes Along with their conservation and economic development of the region via skill development Programs region’

Shri Acharya Balkrishna, Chairman, Patanjali Organic Research Institute, Haridwar presented the proposal on ‘*Scientific exploration of floral diversity near the Ganga river banks for ethnobotanical purposes along with their conservation and economic development of the region via skill development programs region*’. He gave a brief of the broad activities of Patanjali in the field of R&D and informed their keenness to be part of Namami Gange Mission. In this direction, a MoU was signed between NMCG and Patanjali Organic Research Institute (PORI) on 31st October, 2022 for promotion & implementation of Arth Ganga, and the submitted proposal is in line with the Arth Ganga concept for funding under Namami Gange Mission-II.

It was informed by NMCG officials that the submitted proposal has been reviewed by the Botanical Survey of India (BSI).

Shri Acharya Balkrishna informed that the project aims at carrying out phytochemical analysis, floral survey, plantation, research and documentation of flora and fauna and aspects of commercial possibilities, including outreach /IEC for stakeholders. Dr. Pavan Kumar from PORI made a detailed presentation of the proposal highlighting the need of the project and knowledge gaps to be addressed. He further stated that chemical analysis will be carried for select medicinal plant species for enumeration of medicinal benefits and possibility for commercial scale practices. The diverse plant species will be investigated at the phytochemical level and the plant microbe interaction will be also addressed to understand the phytochemical diversity in both qualitative and quantitative approach. The water and soil quality parameters of the selected regions will be examined to understand the pollution level and its impact on floral diversity. Lastly, a novel approach will be taken to explore the unknown medicinal values of economically important plant species by Insilco analysis. The traditional medicines from important plants used by indigenous medical practitioners will also be documented.

Shri Acharya Balakrishna further explained the cost breakup and time period of the project. The total cost estimate of the proposal is Rs. 4,32,36,107/- for a period of 18 months. 66 % of the project cost will be borne by NMCG and remaining 34% by Patanjali Research Institute (PRI) and Patanjali Organic Research Institute (PoRI). He further explained that out of seven objectives, five will be taken up under NMCG funding, whereas remaining two components will be taken-up through self-financing by PoRI.

JS&FA, MoJS mentioned that the cost of equipment and cost of the reagents proposed to be used were very high and asked Patanjali to include only essential equipment and reagents and share these costs. After detailed deliberations, Shri Acharya Balakrishna mentioned that **50% of the total equipment cost** (that is Rs. 44,13,675/-) will also be borne by Patanjali in addition to the other components mentioned in the proposal.

ED (Admin) mentioned that Botanical Survey of India has the mandate of carrying out exploration, inventorization and documentation of phyto-diversity (including non-flowering plants) in India. Further, it does the survey and documentation of traditional knowledge (ethnobotany) associated with plants. Therefore, Patanjali should use the information available with BSI to avoid duplication of work already done by BSI. Further, some information on this could be available with Forest Research Institute, Dehradun and Ministry of AYUSH. Shri Acharya Balakrishna agreed to coordinate with these agencies.

DG, NMCG stated that the outcomes are likely to aid in the Arth Ganga concept and increase livelihood avenues for local communities, while adopting natural farming. The Compendium developed under the project will be shared with NMCG and the species selected for ethnobotanical and medicinal aspects could help in restoration of Ganga landscape and enhancement of livelihoods. It was agreed that logo of Namami Gange will also be used in the communications & documentation developed under the project.

The breakup of NMCG's contribution after sharing the equipment cost comes to Rs. 2,41,50,545/- and Rs. 1,90,85,562/- for Patanjali. The details of cost breakup are given in the table below:

Sr. No.	Name of Component	Amount in Rs.
1.	Sample Collection Of Plant Diversity & Publication	73,75,000.00
2.	Equipment (<i>to be shared equally by NMCG & Patanjali</i>)	88,27,350.00
3.	SOPs And Training Material Cost/IEC Activity Cost	30,00,000.00
4.	Consumables/Lab Reagents	0,68,41,870.00
5.	Travel & Accommodation	25,20,000.00
6.	Engagement Of Human Resource	1,24,87,000.00
7.	Contingency	21,84,887.00
Total Proposal Amount		4,32,36,107.00
Contribution of NMCG after adjustment of equipment cost (<i>Components no. 1, 3, 4, 5 and 50% of 2 shall be contributed by NMCG</i>) (i.e. 56% of the total cost)		2,41,50,545.00
Contribution of PRI after adjustment of equipment cost		1,90,85,562.00

(Components no. 6, 7 and 50% of 2 shall be contributed by Patanjali) (i.e. 44% of the total cost)	
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DECISION:

After discussions, the Executive Committee (EC) approved the proposal for issuing Administrative Approval and Expenditure Sanction (AA&ES) to implement the project by Patanjali Research Institute (PRI) and Patanjali Organic Research Institute (PoRI), Haridwar, Uttarakhand at an estimated cost of Rs. 4,32,36,107/- for a duration of 18 months. NMCG share of the project cost is Rs. 2,41,50,545/- (56%) and share of PoRI of the cost is Rs. 1,90,85,562/- (44%). It was also decided that the suggestions given by BSI and by the Committee members would be complied with by Patanjali.

The following six proposals were not taken up by the Committee for discussions for want of time. It was decided to take up these proposals in the next EC meeting.

Agenda 46.3: DPR for pollution abatement sewerage Project (Interception & Diversion with STP) at Chakdaha Municipal Town in West Bengal

Agenda 46.7: DPR for Interception & Diversion (I&D) and STP works at Hathras Town, Uttar-Pradesh

Agenda 46.8: DPR for Aligarh Sewerage Scheme (I&D and STP works), Distt Aligarh, Uttar Pradesh

Agenda 46.17: DPR for additional Decentralized STP to cater abatement of river pollution of Kanh, Indore in Madhya Pradesh

Agenda 46.18: DPR for additional Decentralized STP to cater abatement of river pollution of Ujjain town in Madhya Pradesh

Agenda 46.19: Rejuvenation of River Kali East by development of *in situ* constructed wetland system at eight locations in Distt Mujjafarnagar, Meerut, Hapur and Bulandshahr, (UP)

The meeting ended with vote of thanks to the Chair.