

**No: T-25/2016-17/519/NMCG-SEESA**

**NATIONAL MISSION FOR CLEAN GANGA**

Ministry of Water Resources, River Development & Ganga Rejuvenation  
1<sup>st</sup> Floor, Major Dhyan Chand National Stadium, India Gate, New Delhi-110002.

**Expression of Interest (Eoi)  
Strategic Environmental, Economic and Social Assessment (SEESA)**

The Government of India has received financing from the World Bank towards the cost of Mission Clean Ganga related activities under NGRBA Program (later which is included as one of the component of the Namami Gange Programme) at the level of institutional development, operational and implementation support and in four sectors, namely wastewater collection and treatment, industrial pollution control, solid waste management and riverfront development. National Mission for Clean Ganga (NMCG) is the implementing wing of Namami Gange and there are State Program Management Groups (SPMGs), registered as societies in the respective states, namely in Uttar Pradesh, Uttarakhand, Bihar and West Bengal while Jharkhand has dedicated nodal cell.

NMCG now invites eligible reputed and experienced consulting entities to indicate their interest in providing the Services. Interested entities should provide information demonstrating that they have the required qualifications and relevant experience to perform the services.

The objective of this consultancy is to undertake multi-disciplinary 'Strategic Environmental, Economic and Social Assessment (SEESA)' through a systematic and comprehensive compilation and generation of baseline information on environment, social and economic parameters for the entire Ganga Basin. The information generated will be integrated in the program and will provide inputs and analytical framework for the future activities/initiatives of Namami Gange Programme and sustainability of investments and will also strengthen the institutional set up. The scope of the assignment shall include;

- i) Scoping Project Environmental, Economic and Social Issues
- ii) Develop Environmental, Social and Economic Baselines for Project Area (using GIS where possible)
- iii) Envisioning the Future of the Ganges Basin
- iv) Analyze Environmental, Social and Economic Implications of Future Scenarios
- v) Stakeholder Consultation and Outreach
- vi) Develop Strategic Action Plan

The detailed Terms of Reference (TOR) is attached.

The entities shall be shortlisted for next stage of selection based on the following:

A. Experience of the firm / Consortium:

- i) Core business area, organization details and **relevant experience**. The relevant experience include conducting strategic or sectoral or regional or project specific Environmental and Social Assessments

- For River Basin/Coastal Zone/Ecologically or Environmentally Sensitive areas spread over multiple cities and
- ii) Must have Experience of Regional Planning

iii) Must have successfully completed at least three assignments of similar nature in the last 10 calendar years (LOA from employer/ Project completion certificate is to be submitted). In case of CONSORTIUM, all members together or any one member of CONSORTIUM should meet the similar assignments criteria in last 10 years. While calculating such experience, more than one similar assignment given to a firm in one work order for a particular year or over more than one year period, will be reckoned as one experience only.

**B. Financial soundness - Turnover and Profitability:**

- i) The turnover figure for the last three financial years i.e. FY 2013-14, FY2014-15 and FY2015-16 should not be less than average of Rs. 12 Crores.
- ii) The net profit figure for the last three financial years as mentioned above should not be negative.

The applicant entities shall submit the audited financial statements for respective financial period.

In case of Consortium, Lead Member should meet the turnover criteria. The entities participating in the EoI should submit certified original copy of their respective turnover and net profit figure, from the independent chartered accountant or their statutory auditor. In absence of such respective certification for individual entity or members of CONSORTIUM, the application shall be liable for rejection.

The members of a Consortium have to provide a joint bidding agreement while submitting their applications for EOI.

The bid documents must be signed by the authorized signatory of the applicant and a power of attorney in this regard as applicable must be submitted by the applicant as per annexures provided hereunder.

The Consultants have to submit the qualifying criteria as per the attached formats. In absence of requisite documents, the application of the individual entity or Consortium shall be liable for rejection. However, NMCG reserves the right to seek clarifications and/or supporting documents from applicants regarding any details as deemed necessary. The applicants should submit a signed copy of the EoI as acceptance of the terms and conditions of the EoI.

The NMCG reserves the right to cancel the EoI at any time or amend / withdraw any of the terms and conditions contained in the bid document at any stage without assigning any reason thereof.

The attention of interested Consultants is drawn to paragraph 1.9 of the World Bank's *Guidelines: Selection and Employment of Consultants [under IBRD Loans and IDA Credits & Grants]* by World Bank

*Borrowers, January 2011* (Consultant Guidelines), setting forth the World Bank's policy on conflict of interest.

Consultants may associate with other firms in the form of a Consortium of maximum 3 eligible entities to enhance their qualifications.

Consultant will be selected in accordance with the Quality and Cost Based Selection (QCBS) method set out in the Consultant Guidelines.

Expressions of interest must be delivered in written form (one original and one copy) to the address below by 3<sup>rd</sup> March, 2017 upto 12.00PM.

Somnath Sen  
OSD (Procurement)  
National Mission for Clean Ganga  
1<sup>st</sup> Floor, Major Dhyan Chand National Stadium,  
India Gate, New Delhi - 110002.  
T: +91 11 2307 2900  
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Director General  
National Mission for Clean Ganga

## Terms of Reference

### Introduction

#### 1.0 Project description:

- 1.1 The Government of India (GoI) has given Ganga the status of a “National River”, and constituted a National Ganga River Basin Authority (NGRBA) on 20.2.2009 under the Environment (Protection) Act, 1986 with the objective to ensure effective abatement of pollution and conservation of the river by adopting a river basin approach with comprehensive planning and management.
- 1.2 Further, Government of India has launched “Namami Gange” programme in the year 2014. The Namami Gange programme is an umbrella programme which covers the previously sanctioned ongoing projects as well as the projects in new components with multi sector mandate to address both water quality and water quantity issues. The programme aims at integrating previous & currently ongoing initiatives by enhancing efficiency, extracting synergies and supplementing them with more comprehensive & better coordinated interventions. Namami Gange Programme has been segregated into two different components:
- **Component A:** Pertains to ongoing projects of cleaning of river Ganga & its tributaries, including World Bank Assisted NGRBA programme having remaining central liabilities.
  - **Component B:** Pertains to new initiatives to be undertaken in 5 major sectors i.e. Infrastructure Development (Sewage Treatment, River Front Development, and Industrial Waste Water Treatment & Solid Waste Management), Institutional Development, Ecological Sustainability, Research & Development and Communication & Public Outreach.
- 1.3 The Government of India has taken a loan assistance of the World Bank for the Mission Clean Ganga related activities under NGRBA Program (later which is included as one of the component of the Namami Gange programme) at the level of institutional development, operational and implementation support and in four sectors, namely, wastewater collection and treatment, industrial pollution control, solid waste management and riverfront development.
- 1.4 National Mission for Clean Ganga (NMCG), a registered society under the Societies Registration Act, 1860, is the implementing wing of Namami Gange and there are State Program Management Groups (SPMGs), registered as societies in the respective states, namely in UP, Uttarakhand, Bihar and West Bengal while Jharkhand has a dedicated nodal cell.

#### 2.0 NAMAMI GANGE PROGRAMME

The Namami programme will be implemented in the Ganga Basin in India. The overall technical assistance and program development under the proposed project will focus on the entire Ganga Basin; however specific sub-project investments under this project will focus

on critical stretches of five basin states of Bihar, Jharkhand, Uttar Pradesh, Uttarakhand and West Bengal in India.

A comprehensive, basin-level, and multi-sectoral approach has been adopted, with support for investments in wastewater, solid waste and river front management, industrial effluent management, address non-point source of pollution and maintaining ecological flows and assessment of biodiversity and afforestation and public participation. Under Namami Gange programme many such projects are being implemented and details of the same may be seen in [www.nmcg.nic.in](http://www.nmcg.nic.in).

## 2.1 Objectives of Consultancy

The objective of this Consultancy is to undertake a multi-disciplinary 'Strategic Environmental, Economic and Social Assessment' through a systematic compilation and generation of information on environment, social and economic parameters for the entire Ganga Basin. The information generated will be integrated in the program and will provide inputs and analytical framework for the future activities / initiatives of Namami Gange Programme and sustainability of investments and will also strengthen the institutional set up.

## 3.0 Scope of Work

### Key Tasks

#### Task 1: Scoping Project Environmental, Economic, and Social Issues

The objective of this task is to diagnose the key environmental, economic and social issues and opportunities associated with the basin, by carrying out the following:

- Review existing documents on (i) Ganga Basin, NRGBA framework, Review of projects progress reports, Namami Gange Programme document, Ganga River Basin Management Plan –prepared by IITs along with familiarization with proposed project activities (ii) Brief description of the project states based on review of existing documents and will include socio-economic settings including demographic characteristics, land use pattern, economic profile, occupational pattern and other socio-economic parameters of the basin; (iii) Cultural practices of communities in relation to Ganga, their social sensitivities and the inter linkages with issues of water quality and availability in the River.
- Identify and review of applicable policy, legal, regulatory frameworks for environmental and social aspects related to the Ganga Basin and its institutional linkages: Analysis of relevant Acts and Policies of Government of India and the safeguard policies of The World Bank. The experience of the previous projects such as GAP I, GAP II, YAP, NRCP, NLCD, etc. with regard to social management shall also be analyzed and examine
- Examine lessons from previous projects (e.g. GAP, YAP, NRCP, JNNURM, etc.), especially from an environmental, social, and economic perspectives
- Consultations and Identification of relevant stakeholders: identify relevant stakeholders with regard to the management of the river and their role in ensuring sustainable management of the River in the long term. The analysis shall be carried out for both

primary and secondary stakeholders at national and state level through structured discussions.

- Develop an initial list of key strategic Environmental, Social, and Economic issues that are critical for the Basin's future: Summarize the key social and cultural issues **(Demographic, Economics and Social)** to be considered while formulating the basin management plan and various other interventions to prevent pollution of Ganga. The summary should cover the knowledge, attitude and practice of communities along the basin in relation to Ganga in their day to day life viz., religious, sanitation practices, etc; their social sensitivities towards these activities and the inter linkages with issues of water quality and availability in the River. Analysis of the issues of vulnerable communities and gender, in Ganga Basin and their sensitivities in relation to the basin management and pollution control.
- The profile should cover the villages / towns and/or cities, demographic characteristics, land use and tenure pattern, economic profile, occupational, income and expenditure pattern, access to basic infrastructure and other socio-economic parameters of the basin.
- Scoping Report clearly identifies Primary and Secondary data and surveys including detailed methodology to be carried during the subsequent tasks of the study with the Ganga River Basin Management Plan / initiatives being developed under Namami Gange Programme

#### **Key Deliverables: Scoping Report**

#### **Task 2: Develop Environmental, Social, and Economic Baselines for Project Area (using GIS where possible)**

- **This task will describe the existing situation in the basin states, in terms of nature and level of current environmental, economic and social features. Social Baseline:** The analysis shall be summarized in a structured manner and shall clearly bring out the implications for program design
- Develop Basic indicators, trends, and knowledge gaps, through analysis of existing secondary data and primary data generated through sample quantitative surveys.
  - Develop methodology for the quantitative survey for preparation of baseline profile of Ganga main stem states along with the sampling/monitoring plan. The methodology should also have the measures for the quality control during the field work as well as during the data entry stage.
  - The profile should cover the villages / towns and/or cities, demographic characteristics, land use and tenure pattern, economic profile, occupational, income and expenditure pattern, access to basic infrastructure and other socio-economic parameters of the basin.
  - Prepare profile in terms of (i) occupational pattern in the basin area related with water resources e.g. fishing, farming, waterways, religious and cultural activities etc; (ii) access to safe water/sanitation by generating information on number of households having safe drinking water and sanitation practices across the Ganga main stem. This information will be generated through both secondary (for the first part) and primary sources (for the second part); (iii) tourists (city / town wise) in terms of their number, economic profile (occupation, income level, expenditure pattern, etc), locations of interest, nature of tourist activities. Also include available infrastructure (water,

sanitation, waste management and accommodation, etc.) in the tourist cities / towns; and (iv) environmental health of the community (e.g. malaria, water-borne diseases, etc.) by analyzing the primary / secondary information on water-borne diseases related to poor water quality and lack of sanitation.

- Poverty and social impact assessment: Prepare a poverty profile including households below poverty line / slum dwellers (urban and rural). The profile should include socio – demographic, cultural characteristics; access to basic amenities; economic characteristics such as land tenure pattern, economic profile, occupational pattern and other similar parameters and their interaction with the river on day to day basis. Identify impacts on the community due to future developmental activities in the basin area and propose mitigation measures along with the budget, time line and implementation and institutional arrangement. Identify and analyze the issues of vulnerable communities and gender, in Ganga Basin and their sensitivities in relation to the basin management and pollution control.
- Relationship of Socio Economic Parameters with Ganga Basin Water Resources: Consultants on the basis of secondary data analysis and primary data shall establish the relationship of the community with the river in terms of their day to day life and religious and cultural requirements.

**Data Source:** Census and other institutions like NSSO, USAID led NHFS, district census handbook, Tourism Handbook etc, semi structured interview schedules and In-depth interview guidelines for stake holder agencies, focus group discussion guidelines and questionnaire for primary sample surveys (as applicable)

- **Environmental Baseline:**

- Policy and Institutional Setting (e.g. for monitoring, regulation, environmental awareness): in monitoring and regulating Ganga environmental pollution. This shall include analyzing the role of MoEF&CC, CPCB, MoWR, RD&GR at the national level, DoE, PCB, water resources and irrigation departments, ULB, Development Authorities and utility agencies such as Jal Nigam, etc. at the state level. The analysis shall also include specific directives of judiciary on Ganga cleanup and identify specific requirements and/or constraints (if any), for developing the Namami Gange program. There are many studies already initiated by National Mission for Clean Ganga (NMCG) which will provide important data source towards study, details of such study is enclosed in **Annexure-A**.
- Key Stakeholders (typology, profiles, current and potential role)
- Basic indicators, trends, and knowledge gaps through analysis of existing secondary data and primary data generated through primary sample monitoring and field surveys.
  - Basin water and natural resources profile, water infrastructure: The profile shall include (a) general features of the River and its basin with regards to the catchment, hydrology, characteristics of various stretches, tributaries, water uses, etc.<sup>1</sup>. (b) Environmental features such as river water quality, aquatic and terrestrial flora / fauna, natural resources, ecological

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<sup>1</sup> River System Analysis and Management (by Nayan Sharma) and other CWC handbooks, Guidebooks etc. and “Ganga a Scientific Study” may be referred.

characteristics, sensitive environmental components, etc. (c) other features such as land use, settlements, major activities, industrial activities, etc.

- Key pollutants/water quality indicators (e.g. DO, BOD, COD, pH, Nitrates, Heavy Metals, Pesticides, etc. all such parameters as per IS-3025)
  - Point sources (incl. domestic and industrial)
  - Non-point sources (incl. agricultural runoff, Religious wastes, Open Defecation and Dhobi Ghats)
- Major sources of key pollutants (point sources; related to pollution that can be easily identified with a single discharge source. A profile of industries, drains/tributaries to be prepared. non-point source : unlike pollution from industrial and sewage treatment plants, comes from many diffuse sources, domestic/agriculture/Religious sources, Open Defecation, Dhobi Ghats etc. A mapping of such sources to be done and quantum of such waste is to be made through secondary and suitable primary survey for the non-point source of pollution.
- Environmental Infrastructure (e.g. existing city treatment plant capacity, needs): that provides cities and towns with water supply, waste disposal, and pollution control services.
- Minimum/environmental flows – issues (for ex. in context of hydropower development in upstream areas) s describe issues related to the variation in flow , timing, and quality of water flows required to sustain freshwater and estuarine ecosystems and the human livelihoods and wellbeing that depend on these ecosystems
- Water quality baseline (esp. to identify critical stretches in every State) to:
  - (1) retrieve water quality and related data from the Environmental Regulators and other database systems;
  - (2) develop a complete inventory of all retrieved data;
  - (3) produce descriptive statistics and appropriate box and whiskers and time series plots of the water quality data to characterize annual, seasonal, and period of record central tendencies and trends;
  - (4) compare Ganga water quality data with relevant national water quality criteria on a station by station basis;
- Environmental resources: Biotic and Abiotic (incl. protected areas, sanctuaries, biodiversity hotspots, etc.)

**Data Source: MoWR,RD&GR, MoEF&CC, NMCG, CPCB, Questionnaire to stake holder agencies, field monitoring, sampling, investigations, visits and sample surveys**

- **Economic Baseline:**
  - Policy and Institutional Setting (e.g. for economic growth, poverty alleviation, economic analysis)
  - Key Stakeholders (typology, profiles, current and potential role)
  - Basic indicators, trends, and knowledge gaps
    - Economic growth (e.g. GSDP, gridded GDP estimates, mapping major economic activities in basin, employment)
    - Estimates of economic value of water use for various activities (e.g. agriculture, hydropower, domestic/industrial use, environment, etc.)



- Analysis of property values along the basin – especially with implications for hedonic analysis of water quality improvements
- Key tourism activities and related revenues
- Relationship with Ganga Basin Water Resources

**Data Source: Census and other institutions, and through primary sample surveys (as applicable)**

**Key Deliverable: Baseline Report of Ganga Basin. The report should also map the base line indicators using GIS platform**

### **Task 3: Envisioning the Future of the Ganges Basin**

Identify key opportunities and risks from an Economic, Environmental, and Social perspective in the Basin. The consultant will use public participation methods and extensive discussions with government counterparts and other key stakeholders to identify future activities in the basin, the major social priorities and risks particularly those in relation to poor and vulnerable social groups (including women, landless, labourers, scheduled population, etc.).

- Identify key options for basin development and management (Review of planning documents of various departments such as irrigation, power, roads, etc will be crucial).
- Identify key environmental, social, and economic indicators (quantitative wherever possible) to compare the implications of future scenarios. Forecasting the future scenario built upon the collected data.
- Develop visions of the possible future modeling scenarios of the Ganges basin keeping in mind key economic, social, and environmental issues and options identified above. Include a range of scenarios from pessimistic to optimistic and to highlight implications of alternative development and management paths. Include scenarios to illustrate regional development options (e.g. major dams in Nepal), climate change, water quality management, water use, etc. that may have major implications on the Ganga basin opportunities and risks in India.
- Develop illustrations and multi-media representations of future scenarios of the Basin to help consultation and communication efforts of NMCG
- The SEESA will also identify the geographic areas and types of activities likely to be carried out in the foreseeable future.
- The consultants will indicate on a map those areas within the basin states that merit special attention because of high environmental or social sensitivity, particularly areas of critical natural habitats. Developing such a map could be through the use of a geographic information system (GIS) mapping process involving construction of a base map, mapping of existing and planned environmental / social infrastructure, environmentally sensitive areas (existing and proposed protected areas, critical sites for conserving biodiversity or physical cultural resources, forests and woodlands, wetlands and waterways), and social features, poverty or income distribution, population density, education or health indicators, etc.).

## Key Deliverable: Ganga Basin Futures Report

### Task 4: Analyze Environmental, Social, and Economic Implications of Future Scenarios

- Develop a “Consequence Table” to illustrate the implications of various future scenarios on the key environmental, social, and economic indicators identified for comparison. Undertake appropriate analysis to value such indicators (e.g. using environmental valuation techniques, including cost of degradation estimates).Using modeling techniques from GIS software
- Develop tools to help visualize the comparison of various alternative scenarios of the future for the Ganga basin in India.

Category	Indicator	Scenario A	Scenario B	...
Environmental	Water Quality (key parameters at critical hotspots)			
	...			
Social	Incidence of water-related illness			
	...			
Economic	Irrigation water reliability			
	...			

#### Identifying Risks and Mitigation Measures:

Taking into account stakeholder input and best practice examples, the SEESA will identify and evaluate the feasible actions and good practices that could be adopted to prevent, minimize, mitigate, or compensate for the adverse environmental and social impacts, as well as to enhance the positive impacts in the Basin. The good practice examples provided should generally be based on comparable and successful examples.

**Institutional Assessment and Capacity-Building Needs.** The consultant will describe and analyze the roles of various entities (at the national and local level) with respect to the environmental and social management of activities in the river basin, reviewing both legal mandates and the systems in place to fulfill them. The consultant will also assess the needs for strengthening the capacity—financial, technical, and human resources--of these agencies to manage adequately the priority environmental and social issues.

## **Key Deliverable: Part of Ganga Basin Futures Report**

### **Task 5: Stakeholder Consultation and Outreach**

- The SEESA should be recognized as both a product and a process through robust participation of all stakeholders having interest in the activities being carried out in the river basin. This is expected to include:
- Organize stakeholder discussions to solicit opinions all through the process of the SEESA development on:
  - Lessons from past efforts of pollution abatement and basin management programmes and needs for the future
  - Scoping strategic issues across the region
  - Identification of key data sources, indicators, scenarios
  - Feedback on analysis and scenario consequences to prioritize a few acceptable scenarios for the future Basin development and management
- Identify stakeholder capacity-building needs
- *Stakeholder Analysis:* Early during SEESA preparation, the Consultant should undertake a stakeholder analysis to identify and describe all key stakeholder groups. This analysis should provide a mapping of stakeholder interests in the basin and should indicate the relative strengths and interests of various stakeholders. The stakeholder analysis should also indicate where stakeholders have complementary or competing interests. The development and results of the stakeholder analysis should link into the institutional analysis discussed above.
- *Documenting Stakeholder Consultations* The SEESA report should include an annex which documents the stakeholder consultations that were carried out as part of the SEESA process. This annex should specify (i) which stakeholder organizations or informal groups (names of individuals optional) were consulted during which parts of the SEESA process; (ii) the forms of consultation and discussion carried out (meetings, interviews, surveys, e-mails, web page comments, etc.), when and where; and (iii) the main concerns and recommendations of the different stakeholder groups.

## **Key Deliverable: Stakeholder Consultation Report**

**Task 6: Develop Strategic Action Plan** by analyzing the feasible actions, good practices, legal and institutional frameworks, and capacity-building needs, the SEESA will describe realistic measures that need to be implemented for improving the environmental and social management of activities in the river basin. The consultant will develop an Action Plan for recommended measures to be implemented by NMCG. The Action Plan will specify measures for improving the environmental and social management that could readily be implemented within each relevant sub projects and should comprise the following.

- Identify key strategic areas of work (including on information, institutions/policy, infrastructure, etc.) to achieve the identified acceptable scenarios from the current situation. The strategic areas should help mainstream the work of the SEESA into future basin programs, including future phases of the Namami Gange programme.

- For each strategic area, broadly identify a priority actions that indicates activities, resources required, possible institutional involved, and implementation framework and timing

The report should provide a clear set of recommendations for (i) strengthening policies and institutions for addressing environmental and social considerations in the basin (ii) basin level social mitigations/interventions that are not specific to a project level activity (for mitigating cumulative impacts of projects planned in the basin), (iii) guidance / approach for integrated management of water considering the environmental, social, and developmental needs and priorities. Recommendations should include

- (i) suggestions for addressing policy and institutional gaps
- (ii) identify responsibilities of key agencies and stakeholders
- (iii) comprehensive mechanism for involving stakeholders, local NGOs, and other representatives of civil society at the local level and proposing how stakeholders can be included in monitoring the implementation of recommendations.
- (iv) and time frame for carrying out activities. Recommendations should be taken back to the stakeholders for review and assessment in a validation analysis. The process outcomes of such a validation procedure are:
  - Reinforcement of the strengthening of environmental constituencies
  - Enhancing accountability mechanisms for implementation of the policy
  - Promoting social learning

#### **Key Deliverable: Ganga Basin SESEA Strategic Action Plan**

#### **4.0 Study Outputs and Time Lines**

1. The study is expected to be carried out over a period of 12 months and shall comprise the following outputs.
  - **Inception Report** within 15 days of commencement of the project, outlining the detailed approach and methodology, schedule of various activities and tasks to be carried out for the assignment.
  - **Scoping Report** within 3 months of the commencement of the assignment, summarizing the Environmental and Social Analysis of Ganga Basin and the potential activities of NMCG and Namami Gange Programme (Task 1 of the TOR)
  - **Draft Ganga Baseline Report**, within 7 months from the commencement of the assignment and completing the tasks required as per Task 2 of the TOR.
  - **Draft Ganga Basin Future Report** within 10 months of commencement of the assignment and completing the tasks 3 of the TOR.
  - **Stakeholders Consultation Report** within 11 months of the commencement of the assignment and completing the tasks 5 of the TOR.
  - **Draft Ganga Basin Strategic Action Plan**, within 12 months of commencement of the assignment and completing the task 6 of the TOR.
  - **Final Report** duly incorporating the comments and suggestions of the NMCG and The World Bank. The final report should be submitted within one month of the receipt of the comments.

All outputs will be submitted electronically and in hardcopy form (20 copies). All data will be submitted using common formats (e.g. PDF, MS Office, GIS, etc.)

The consultant will prepare the reports in the agreed format and shall include an executive summary highlighting main findings of the study. The consultant will also submit all the data, maps and other information collected for the study.

#### 5.0 Consultant Team & Qualifications Expected:

- The consultants should have adequate experience in large scale river basin and related investments. The core team for the assignment will be evaluated on the basis of their qualifications and working experiences related with the following fields of work on earlier successfully completed assignments. Thus, the CVs of the following specialists submitted in the proposal should have specific information in this respect.

S.No	Position	Number	Experience
1	Team Leader cum Economist	1	Should have 15 years of experience in related field.
2	Environmental Specialist	1	Should have 10 years of experience in Environmental Engineering, Pollution Monitoring, and Environmental Safeguard related activities.
3	Environmental Specialist	1	Should have 10 years of experience in the field of ecology and biodiversity.
4	Social Impact Assessment Specialist	1	Should hold master's degree in social science, 15 years of demonstrated experience in designing and implementing social assessment programs in large scale river basin projects. The specialist should have working experience on issues pertaining to vulnerable community; religion and gender. Should also have wide experience of handling consultations with multiple stakeholders and large scale database of individual households.
5	Community Consultation / Communication Specialist	1	Should be a master in social science, 15 years of work experience in the field of social assessments, implementation of community consultation programs, and in Rapid Rural appraisal (RRA)
6	State Coordinators – one for each state	5	Should be a graduate with over 10 years of experience in conducting large scale household surveys, managing large number of surveyors and on field quality control.

Consultants should estimate the number of surveyors required including survey supervisors and other specialists as needed.

- **Fish and Fishery conservation of Ganga River:** The project awarded in July 2015 and will provide a detailed profile and conservation of fish and fisheries of river Ganga.
- **Biodiversity Conservation and Ganga Rejuvenation:** Examine the ecological status of the wildlife species of conservation significance (like dolphin, smooth-coated otter, gharial, Indian marsh crocodile, estuarine crocodiles, freshwater turtles etc.). The project launched in
- **Forestry interventions for Ganga:** Profile for future afforestation programme in 83,946 ha covered in the in five state of Ganga river bank.
- **Water Quality Monitoring:** It was an old manual water quality monitoring project started since GAP by engaging recognized universities and institutes along Ganga. This projects continued till March 2016. Baseline water quality data at 98 locations available.
- **Water Quality Monitoring by CPCB:** CPCB taken up water manual water quality monitoring along Ganga through their own funding source under National Water Quality monitoring scheme at 57 such locations. After the closing of project in para 4(iv) above, these 98 locations are also transferred to CPCB. The work of manual monitoring at these 98 locations are to be started by CPCB.
- **Real Time Water Quality Monitoring System (RTWQMS):** The real time monitoring stations to be installed at 113 locations through CPCB. Out of these tendering completed for 36 locations and installed in one station. Data verification consultant to be appointed by CPCB.
- **Industrial Effluent Monitoring:** Out of the 764 Grossly Polluting Industries (GPIs), 569 has installed online effluent monitoring system. Rest are under process. The system generates waste water discharge data (both quality and quantity).
- **Drain Water Quality Monitoring:** CPCB is maintaining the water quantity and water quality data for the 144 drains discharging directly to river Ganga.
- **Ganga River Basin Management Plan:** GRBMP provides an information of overall baseline information based upon secondary data sources only. This is a useful document but lacks of any kind of primary information.
- **Special Properties of River Ganga:** NEERI Nagpur conducted study to capture the special properties of river Ganga through a 1 and half year study from Gomukh to Gangasagar with 52 water quality parameters.
- **Legacy Data Collection:** Indian Institute of Public Administration (IIPA) was awarded work to collect legacy data related to Ganga. A website is launched by IIPA known as Ganga Gyan Dhara.
- **Reports like “Ganga a scientific Study” may also be referred.**

**Format for Letter of Application**

*[On the Letter head of the Applicant (Lead Member in case of Consortium)]*

Date:

To

OSD (Procurement)

National Mission for Clean Ganga

1<sup>st</sup> Floor, Major Dhyan Chand National Stadium,

India Gate, New Delhi - 110002.

T: +91 11 2307 2900

**Ref: Expression of Interest (Eoi) for Strategic Environmental, Economic and Social Assessment (SEESA).**

Dear Sir,

Being duly authorized to represent and act on behalf of ..... (Hereinafter referred to as "the Applicant"), and having gone through and fully understood all of the eligibility and qualification requirements and information provided, the undersigned hereby apply for Expression of Interest for the captioned project.

We are enclosing our Application for Qualification in one (1) original and one (1) copy, with the details as per the requirements of the EOI Document, for your evaluation.

Yours faithfully,

\_\_\_\_\_  
(Signature of Authorised Signatory)

(Name, Title and Address)

### Format for Details of Applicant

S. No.	Particulars	Details to be filled in
1	Name of applicant with full address	
2	Telephone No.	
3	Fax No.	
4	Email	
5	Year of Incorporation. (Copy of incorporation/registration certificate to be attached)	
6	Name and address of the person holding the Power of Attorney.	
7	(i) Place of Business.	
	(ii) Date of Registration.	
8	Service Tax Registration Number (copy to be attached).	
9	Are you presently debarred / Black listed by any Government Department /Public Sector Undertaking /Any Employer? (If Yes, please furnish details)	
10	Name and details (Tel ./ Mobile / E mail) of Authorised Signatory	

*Note: In case of a Consortium the information above should be provided for all the members of the consortium.*

It is certified that the information given above is TRUE to the best of our knowledge. The organization shall stand liable for any information given above which is later found to be FALSE.

Place:

Signature of the Authorized Signatory

Date:

Name & Designation with Stamp



**List of Similar Assignments for Assessment Study  
Completed In Last 10 Calender Years (Jan-Dec) Ending 31-12-2016**

S. No.	Year	Name of consultancy assignment with location	Name of the Funding Agency	Duration of the Assignment	Short Description of Consultancy assignment	Name and address of Owner/ Client	Fees for the Assignment	Any other Relevant information

**Note:**

*The list of assignments mentioned should be substantiated with documentary evidence such as work orders/relevant pages of the contract agreement/project completion certificates in a sequential manner.*

It is certified that the information given above is TRUE to the best of our knowledge. The organization shall stand liable for any information given above which is later found to be FALSE.

Place:

Date:

Signature of the Authorized Signatory  
Name & Designation with Stamp

### Format for Financial Strength of the Applicant

S. No.	Financial Year	Turnover (Rs. in Crores)	Profit/loss(-) (Rs. in Crores)
1	2013-14		
2	2014-15		
3	2015-16		

**Note:**

- *The Applicant should provide the Financial Capability based on its own financial statements. Financial Capability of the Applicant's parent company or its subsidiary or any associate company will not be considered for computation of the Financial Capability of the Applicant.*
- *In case of a Consortium, provide relevant details of all members in the subsequent row. In case the Applicant is a Consortium, for the purpose of evaluation on financial parameters, financial parameters of the Lead Member only shall considered.*
- *Certified copies of audited financial statements for each financial year and certificate from independent chartered accountant or statutory auditor of the entity should be enclosed. The name of the audit firm, seal, date of certificate and signature, name and designation of authorized signatory of the certifying firm should be clearly mentioned in the certificate. The signature of the statutory auditor / CA should be in blue colour ink in original. The date of certificate should be the date after the issue date of this EoI. In absence of this certification, the EoI application will not be considered for evaluation.*

It is certified that the information given above is TRUE to the best of our knowledge. The organization shall stand liable for any information given above which is later found to be FALSE.

Place:

Signature of the Authorized Signatory

Date:

Name & Designation with Stamp

**Details of Subject Matter Experts Working As on Date**

<b>S. No.</b>	<b>Name of the official</b>	<b>Qualification</b>	<b>Sector/Skill</b>	<b>Duration of working with the Entity</b>	<b>Total Years of Experience in the concerned sector</b>

**Note:**

*Subject Matter Specialist should be from the concerned disciplines as specified in the Terms of Reference.*

It is certified that the information given above is TRUE to the best of our knowledge. The organization shall stand liable for any information given above which is later found to be FALSE.

Place:

Signature of the Authorised Signatory

Date:

Name & Designation with Stamp

## Declarations

*(On a Stamp Paper of relevant value)*

1. I/ We hereby certify that my/our firm/Company/Society/Trust has not been debarred/blacklisted by any State Government/Government of India/Govt. Departments and/or agencies such as UN/bilateral/ multi-lateral funding/partner agencies and corporate including CPSEs , at any time for services of any description. We undertake that, in the event of us or any of our promoters/directors being blacklisted / barred at any time post the date of this declaration, we shall intimate NMCG of such blacklisting. We further confirm that we are aware that our Proposal for the captioned Project would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of the EoI Document at any stage of the bidding process.
2. I/ We hereby declare that, no relevant information has been omitted/ withheld in the process of furnishing the information with respect to this EoI.
3. We understood that NMCG is not bound to short-list / accept any proposal received in response to this EoI.
4. I/We have read and examined this EoI document while submitting our response. Further, it is understood that this EoI is only an exercise for possible selection for the future work(s); however it does not confer any right to any party submitting EoI for further consideration in the process or work allotment.
5. We hereby declare that all the information and statements made in this proposal are true and accept that any misrepresentation contained in it may lead to our disqualification.
6. I/we understand that if we use any unfair means with regard to this EoI, our EoI/proposal shall be liable for cancellation at any time.

Place:

Signature of the Authorized Signatory

Date:

Name & Designation with Stamp

*Note:*

- *To be executed by Bidder or separately by all the Members in case of Consortium.*

**Format for Power of Attorney for Signing of Proposal**

*(On Non – judicial stamp paper of Rs 100/- or such equivalent document duly attested by notary public)*

**Format for Power of Attorney for Signing of EoI**

Know all men by these presents, We, ..... (name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorise Mr. /Ms (Name), son / daughter / wife of ..... and presently residing at ....., who is presently employed with us / the Lead Member of our Consortium and holding the position of ....., as our true and lawful attorney (hereinafter referred to as the **“Attorney”**) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for **“Expression of Interest for Strategic Environmental, Economic and Social Assessment (SEESA)”**, including signing and submission of all documents and providing information/responses to NMCG, representing us in all matters before NMCG, and generally dealing with NMCG in all matters in connection with or relating to or arising out of our bid for the said Project.

We hereby agree to ratify and confirm all acts, deeds and things lawfully done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our aforesaid Attorney shall and shall always be deemed to have been done by us.

For.....

(Signature, name, designation and address)

Accepted

Notarised

.....

(Signature, name, designation and address of the Attorney)

Witnesses:

- 1.
- 2.

Notes:

- 1. *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it*

*is so required, the same should be under common seal affixed in accordance with the required procedure.*

2. *Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*
3. *For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Appostille certificate.*
4. *In case the Proposal is signed by an authorised Director of the Bidder (Lead Member, in case of a Consortium), a certified copy of the appropriate resolution/ document conveying such authority may be enclosed in lieu of the Power of Attorney.*

**Format for Power of Attorney for Lead Member of Consortium**

*(On Non – judicial stamp paper of Rs 100/- or such equivalent document duly attested by notary public)*

Whereas the National Mission for Clean Ganga (NMCG) on behalf of Ministry of Water Resources, River Development and Ganga Rejuvenation, Government of India has invited applications from interested parties for “Strategic Environmental, Economic and Social Assessment (SEESA)” (the “Project”).

Whereas, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ (collectively the “Consortium”) the Members of the Consortium are interested in bidding for the Project in accordance with the terms and conditions of the Expression of Interest (EOI) document and other connected documents in respect of the Project, and

Whereas, it is necessary under the EOI document for the Members of the Consortium to designate one of them as the Lead Member with all necessary power and authority to do for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium’s bid for the Project who, acting jointly, would have all necessary power and authority to do all acts, deeds and things on behalf of the Consortium, as may be necessary in connection the Consortium’s bid for the Project.

NOW THIS POWER OF ATTORNEY WITNESS THAT

We, M/s. \_\_\_\_\_ (Lead Member), having our registered office at \_\_\_\_\_, M/s. \_\_\_\_\_ having our registered office at \_\_\_\_\_, and M/s. \_\_\_\_\_, having our registered office at \_\_\_\_\_, (hereinafter collectively referred to as the “Principles”) do hereby designate, nominate, constitute, appoint and authorise M/s \_\_\_\_\_, having its registered office at \_\_\_\_\_, being one of the Members of the Consortium, as the Lead Member and true and lawful attorney of the Consortium (hereinafter referred to as the “Attorney”) to do on our behalf and on behalf of the Consortium, all or any of the acts, deeds, or things as are necessary or required or incidental to the Consortium’s bid for the Project, including submission of Application, participating in conferences, responding to queries, submission of information/documents and generally to represent the Consortium in all its dealings with NMCG, any other Government Agency or any person, in connection with the Project until culmination of the process of bidding and thereafter till the contract is entered into with NMCG.

We hereby agree to ratify and confirm all acts, deeds and things lawfully done or caused to be done by Lead Member, our said Attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid Attorney shall and shall always be deemed to have been done by us / Consortium.

Dated this the ..... Day of ..... 2017.

For \_\_\_\_\_

(Signature, Name & Title)

For \_\_\_\_\_

(Signature, Name & Title)

For \_\_\_\_\_

(Signature, Name & Title)

Witnesses:

- 1.
- 2.

(Executants)

(To be executed by all the Members of the Consortium)

Notes:

1. *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
2. *Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*
3. *For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Appostille certificate.*
4. *In case the Proposal is signed by an authorised Director of the Bidder (Lead Member, in case of a Consortium), a certified copy of the appropriate resolution/ document conveying such authority may be enclosed in lieu of the Power of Attorney.*