



ORISSA WATER SUPPLY & SEWERAGE BOARD

**(A Government of Odisha Undertaking under
Housing & Urban Development Department)**

REQUEST FOR PROPOSAL (RFP)

“CONSULTANCY SERVICES OF AUTHORITY’S ENGINEER”

for the Supervision of the works of

**“Construction of Sewerage System of
BHUBANESWAR SEWERAGE DISTRICT-I,
BHUBANESWAR SEWERAGE DISTRICT-II,
BHUBANESWAR SEWERAGE DISTRICT-III &
BHUBANESWAR SEWERAGE DISTRICT-IV,**

ROURKELA City (East & West)

and SAMBALPUR Town”

in the State of Odisha on

Engineering, Procurement & Construction (EPC) Mode”

Bid identification no. OWSSB-05/ 2017-18

August 2017

CONTENTS

Sr. No.	Particulars	Page No
1	SECTION 1: Information to Consultants	3
2	SECTION 2: Letter of Invitation	12
3	SECTION 3: Format for Submission of Firms Credentials.	28
4	SECTION 4: Format for Submission of Technical Proposal.	31
5	SECTION 5: Format for submission of Financial proposal.	42
6	SECTION 6: Terms of Reference.	53
7	SECTION 7: Draft Form of Contract.	71
8	Procedure under e-tendering	120

SECTION 1

INFORMATION TO CONSULTANTS

Sub.: Consultancy services of Authority's Engineer for the Supervision of the works of "Construction of Sewerage System for Bhubaneswar Sewerage District-I, Bhubaneswar Sewerage District-II, Bhubaneswar Sewerage District-III & Bhubaneswar Sewerage District-IV, Construction of Sewerage System for Rourkela City (East and West) and Construction of Sewerage system of Sambalpur Town in the State of Odisha on Engineering, Procurement and Construction (EPC) Mode".

GENERAL: -

1. Member Secretary, Orissa Water Supply & Sewerage Board, Bhubaneswar invites proposals for engaging Authority's Engineer (AE) on the basis of National Competitive Bidding for the following contract package in the State of Odisha.

TABLE 1: DETAILS OF EPC PROJECT

Sl No	Consultancy Package	Name of the Sewerage Project (EPC)	Estimated Cost of Sewerage Project (EPC) (Rs. in Cr.)	Bid security (in Rs)	Cost of bid document (in Rs)	Assignment Period (months)
1.	05/OWSSB/2017-18	Construction of Sewerage System for Bhubaneswar Sewerage District-I, II, III & IV, Rourkela City (East & West) and Sambalpur Town	Rs 1278.55 Cr	Rs 34,81,000/-	Rs 10,000/-	36 (Thirty six)

2. Selection of AE shall be as per selection procedures given in the Model Agreement for Engineering Procurement and Construction of Sewerage Project and general procurement methods. The selected AE shall be intimated to the Contractor.
3. The proposal shall be submitted in English Language and all correspondence would be in the same language.
4. **(i) BHUBANESWAR CITY:**
For implementation of Bhubaneswar Sewerage Project, the project area has been divided into four Sewerage Districts namely

Bhubaneswar Sewerage District-I, Bhubaneswar Sewerage District-II, Bhubaneswar Sewerage District-III and Bhubaneswar Sewerage District-IV. Tenders have been invited for Bhubaneswar Sewerage District-I, II & III as three packages for engaging three separate agencies to execute the works on EPC mode of contract. The works for Bhubaneswar Sewerage District-I, & III are awarded to two agencies on 27-07-2017 for implementation. The package of Bhubaneswar Sewerage District II is in the process of finalisation. The tender for Sewerage District.-IV is to be invited soon.

- a. The project of Bhubaneswar Sewerage District-I basically constitutes construction of a Sewer network consisting of 25.50 km of RCC gravity sewer network, 4 nos Intermediate Sewage Pumping Stations (ISPS), 1 no. of Terminal Sewage Pumping Station (TSPS), 4.6 km of DI pipe Pumping Main, Construction of one 56 MLD capacity Sewage Treatment Plant (STP) based on SBR Technology at Meherpalli, near Jharpada, Laxmisagar, Bhubaneswar comprising of inlet chamber, screen chamber, grit chamber, aeration container, return sludge pumping, centrifuge / belt press, chlorination arrangement, effluent disposal system by gravity, associated civil, mechanical, electrical, instrumentation system, Automation & SCADA system, construction of electrical substation and power supply, construction of DG room & MCC-cum-office room, site formation, service road, approach road to STP and pumping stations, construction of internal roads / pavements, laying of sewers and rising mains using trenchless technology at required places, construction of manhole chambers, valve chambers house sewers, road cutting & restoration, repair of Municipal drains damaged during construction of sewer system, reinstatement of public utilities etc.
- b. The project of Bhubaneswar Sewerage District-II basically constitutes construction of a Sewer network consisting of 27.18 km of RCC gravity sewer network, 4 nos. of Intermediate Sewage Pumping Stations (ISPS) 9 nos. of Lifting stations (LS), 1 no. of Terminal Sewage Pumping Station (TSPS), 14.04 km of DI pipe Pumping Main, Construction of one 28 MLD capacity Sewage Treatment Plant STP based on SBR Technology at Basuaghai, Bhubaneswar comprising of inlet chamber, screen chamber, grit chamber, aeration container, return sludge pumping, centrifuge / belt press, chlorination arrangement, effluent disposal system by gravity, associated civil, mechanical, electrical, instrumentation system, Automation & SCADA system, construction of electrical substation and power supply, construction of DG room & MCC-cum-office room, site formation, service road, approach road to STP and pumping stations, construction of internal roads / pavements, laying of sewers and rising mains using trenchless technology at required places, construction of manhole chambers, valve chambers house sewers, road cutting & restoration, repair of municipal drains

damaged during construction of sewer system, reinstatement of public utilities etc.

- c. The project of Bhubaneswar Sewerage District-III basically constitutes construction of a Sewer network consisting of 97.818 km of RCC gravity sewer network, 8 nos. of Intermediate Sewage Pumping Stations (ISPS), 1 no. of Terminal Sewage Pumping Station (TSPS), 8.944 km of DI pipe Pumping Main, Construction of one 43.50 MLD capacity Sewage Treatment Plant STP based on SBR Technology at Kochilaput, Bhubaneswar comprising of inlet chamber, screen chamber, grit chamber, aeration container, return sludge pumping, centrifuge / belt press, chlorination arrangement, effluent disposal system by gravity, associated civil, mechanical, electrical, instrumentation system, Automation & SCADA system, construction of electrical substation and power supply, construction of DG room & MCC-cum-office room, site formation, service road, approach road to STP and pumping stations, construction of internal roads / pavements, laying of sewers and rising mains using trenchless technology at required places, construction of manhole chambers, valve chambers house sewers, road cutting & restoration, repair of municipal drains damaged during construction of sewer system, reinstatement of public utilities etc.
- d. The project of Bhubaneswar Sewerage District-IV basically constitutes construction of a Sewer network consisting of 14.87 km of RCC gravity sewer network, 1 no. of sub Pumping Station (ISPS), renovation of 2 nos of existing sub pumping stations 1 no. of Terminal Sewage Pumping Station (TSPS), 2.19 km of DI pipe Pumping Main, Construction of one 8.00 MLD capacity Sewage Treatment Plant STP based on SBR Technology at Paikarapur, Bhubaneswar comprising of inlet chamber, screen chamber, grit chamber, aeration container, return sludge pumping, centrifuge / belt press, chlorination arrangement, effluent disposal system by gravity, associated civil, mechanical, electrical, instrumentation system, Automation & SCADA system, construction of electrical substation and power supply, construction of DG room & MCC-cum-office room, site formation, service road, approach road to STP and pumping stations, construction of internal roads / pavements, laying of sewers and rising mains using trenchless technology at required places, construction of manhole chambers, valve chambers house sewers, road cutting & restoration, repair of municipal drains damaged during construction of sewer system, reinstatement of public utilities etc.

(ii) ROURKELA CITY

Rourkela city is divided into two distinct zones i.e Rourkela –East and Rourkela-West which are topographically separated by Rourkela Steel Township. In view of this, it is proposed to have separate sewer network with treatment facilities in each zone and there will be two projects i.e. (i) ‘Sewerage System of Rourkela City- East’ and (ii) ‘Sewerage System of

Rourkela City- West' under the project name "Sewerage System of Rourkela City- East and West"

For implementation of the Construction of Sewerage Project for Rourkela City (East & west) tender had been invited as a single package for engaging agency to execute the works on EPC mode of contract. The work was awarded to contractor for implementation with date of commencement as 09-01-2017.

(a) Rourkela City – East

The scope of work will broadly include construction of Sewage Collection system consisting of around 47.836 km of RCC gravity sewer network which includes 392 m by trenchless method, 2 nos. of Intermediate Sewage Pumping Stations (SPS), Laying of DI pipe Pumping Mains of about 2077 m length, 132.60 km length of House sewer. Construction of one 8 MLD capacity Sewage Treatment Plant (STP) based on SBR Technology at Koel Nagar comprising of one Main (Terminal) Sewage Pumping Station, SBR Tank, Return Sludge pumping, Centrifuge, Chlorination arrangement, Effluent pumping station, Effluent pumping main & Effluent disposal system etc, Associated civil, mechanical, electrical, instrumentation system, Automation & SCADA system, Construction of electrical substation and power supply, construction of DG room and MCC-cum-office room, site formation, service road, approach road to STP and Pumping stations, laying of Sewers and Rising mains using Trenchless Technology at required places, Construction of Manhole chambers, Valve chambers, house sewers , road cutting & restoration, repair of municipal drains damaged during construction of sewer system, dismantling of existing sewer system in Koel Nagar and in adjacent areas, reinstatement of public utilities etc., and Operation & Maintenance of the Project for 5 (five) years as detailed in the Draft Agreement including the maintenance of compound walls of Sewage Treatment Plant and Sewage pumping stations though the construction of these compound walls are not included in the construction contract.

(b) Rourkela City – West

The scope of work will broadly include construction of Sewage Collection system consisting of around 186.23 km of RCC gravity sewer network which includes 728 m by trenchless method, 4 nos. of Intermediate Sewage Pumping Stations (SPS), Laying of DI pipe Pumping Mains of about 5855 m length, which includes 190 m by trenchless method, 210.00 km length of House sewer, Construction of one 40 MLD capacity Sewage Treatment Plant (STP) based on SBR Technology at Rупutola, comprising of one Main (Terminal) Sewage Pumping Station, SBR Tank, Return Sludge pumping, Centrifuge, Chlorination arrangement, Effluent pumping station, Effluent pumping main & Effluent disposal system etc, Associated civil, mechanical, electrical, instrumentation system, Automation & SCADA system, Construction of electrical substation and power supply, construction of DG room and MCC-cum-office room, staff qrs, site formation, service road, approach road to STP and Pumping stations, laying of Sewers and Rising mains using Trenchless Technology at required places, Construction of Manhole chambers, Valve chambers, house sewers , road cutting & restoration, repair of municipal drains damaged during construction of sewer system, reinstatement of public utilities etc., and Operation & Maintenance of the Project for 5 (five) years as detailed in the Draft Agreement including

the maintenance of compound walls of Sewage Treatment Plant and Sewage pumping stations though the construction of these compound walls are not included in the construction contract.

(iii) SAMBALPUR TOWN:

For implementation of the Construction of Sewerage Project for Sambalpur town, tender had been invited for engaging agency to execute the works on EPC mode of contract. The work was awarded to contractor for implementation with date of commencement as 09-01-2017.

The scope of work will broadly include construction of Sewage Collection system consisting of around 253.9 km of SW/RCC gravity sewer network, 8 nos. of Intermediate Sewage Pumping Stations (SPS), 15.570 km of DI pipe Twin Pumping Mains, Construction of one 40 MLD capacity Sewage Treatment Plant (STP) based on SBR Technology at Dhanupali comprising of one Main (Terminal) Sewage Pumping Station, SBR Tank, Return Sludge pumping, Centrifuge, Chlorination arrangement, Effluent pumping station, Effluent pumping main & Effluent disposal system etc., Associated civil, mechanical, electrical, instrumentation system, Automation & SCADA system, Construction of electrical substation and power supply, construction of DG room and MCC-cum-office room, staff qrs., site formation, service road, approach road to STP and Pumping stations, Construction of compound walls for STP and 8 nos. of Sewage Pumping stations, laying of Sewers using Trenchless Technology at required places, Construction of Manhole chambers, Valve chambers, house sewers, road cutting & restoration, repair of municipal drains damaged during construction of sewer system, reinstatement of public utilities etc

The proposed construction works will involve use of modern equipment and construction practices/techniques.

The requirement of Key professional, Sub Professional, supporting staff and vehicles for Bhubaneswar Sewerage District I & II, III & District IV, Sambalpur and Rourkela (East & West) etc., are separately listed out. The engagement of Key professional, Sub Professional and Supporting staff and deployment of vehicles shall be done as per the project requirement with prior approval of the Authority since the agencies for the packages for Bhubaneswar Sewerage District II, & District IV are yet to be finalised.

5. Authority intends to appoint a Consultant to act as Authority's Engineer for implementation of these EPC project. As per the Terms and Conditions of the EPC Agreement(s), the Authority's Engineer shall perform all the duties as per the TOR given in this RFP along with any amendment thereof. The selection of Authority's Engineer shall follow the laid down procedures given in the Contract Agreement signed between AUTHORITY and the Contractor for this EPC project.

6. The interested consultancy firms shall download the RFP from State Government e-Tendering Website w.e.f. 11.08.2017 to 11.09.2017 up to 17.00 hrs. The Consultant who download the RFP document from the website will be required to pay the non-refundable fee of Rs. 10,000/- at the time of the submission of the Bid proposal. The RFP will be invited through e-Tendering portal. Refer Procedure under e-Tendering for submission of RFP through e-Tendering.
7. The proposal should be submitted by consultancy firms in two parts. The two parts of the proposal are **Part 1: Technical Proposal** and **Part 2: Financial Proposal**. For a given EPC project, Stage -1 of the Evaluation shall consider the evaluation of the Technical Proposal (i.e. Part 1). *The firms scoring the qualifying marks (minimum 75%) as mentioned in RFP shall be listed in the descending order of their technical score and 5 top ranking firms shall only be considered for further evaluation. Under stage 2, the financial proposal of such five firms as selected above shall be opened and evaluated. The Technical & Financial Proposal will be submitted through online. The award of work shall be done on **least cost basis** (cost based selection approach) among the top five qualifying consultants, meeting eligibility requirements, shortlisted after Technical Evaluation.*
8. The total time period for the assignment as Authority's Engineer will be for 36* Months (Construction period -36 Months).
9. Consultants may apply either as a sole firm or forming Joint Venture with other consultants. In case of Joint Venture, the maximum number of Joint Venture partners is limited to 2 (i.e. one lead + 1 JV partner). Formulation of more than one JV with different partners for the same work is not allowed and all such proposal involving the firms shall be treated as non-responsive.
10. The Applicant whether a sole applicant or lead member with joint venture(s) may include an Associate company (An Associate company is a corporation whose parent company possesses a minority stake in the ownership of the corporation. An associate company is partly owned by another company or group of companies. The parent company or companies do not consolidate the associate company's financial statements.). The applicant shall submit a Memorandum of Understanding (MOU) with the Associate regarding the role and responsibilities of this Associate Company along with the proposal. Maximum numbers of key personnel of the Associate firm during the RFP proposal and implementation of contract is limited to 5 (Five).
11. Consulting firms meeting the following criteria are only eligible for applying for this assignment. Firms not meeting these criteria need not apply.

A). Eligibility criteria for sole applicant firm.

S. No.	Experience of the firm in last 7 years		Annual Turnover***
	Preparation of DPR (Water supply/Sewerage/ Projects)	Project Supervision / IC (Water supply/Sewerage Projects)	
1 (a).	The firm in the last 7 years should have the experience in preparation of Detailed Project Reports for Water Supply/ Sewerage schemes having total estimated cost equal to or more than Rs.2557.10 Cr (Maximum up to 5 nos. of DPRs), out of which one DPR shall be minimum Rs 639.28 Cr in sewerage sector, and the remaining DPRs (Maximum up to 4 Nos) shall be in water supply/sewerage sector having total estimated cost equal to or more than Rs 1917.82 Crore.	The firm in the last 7 years should have the experience in Project Supervision/IC for Water Supply/ Sewerage schemes having total project cost equal to or more than Rs.2557.10 Crore (Maximum up to 5 nos. of projects), out of which cost of one project shall be minimum Rs 639.28 Cr in sewerage sector, and the remaining Projects (Maximum up to 4 Nos) shall be in water supply/sewerage sector having total project cost equal to or more than Rs 1917.82 Crore	Annual turnover (updated average of last 5 years or in each of the preceding two years) of the firm from consultancy business should be equal to or more than 5% of Estimated Project Cost mentioned at Table 1 above.

** The experience in DPR preparation shall be considered only if the firm has prepared new DPRs for town(s) as required and mentioned above and not reviewing of DPRs prepared already.*

B) Eligibility Criteria for partner in case of JV

(not more than 1 JV partners shall be allowed) shall be as under:

The lead partner must fulfil at least 80% of requirements at 1(a) of table in para (A) above and other JV partner should fulfil at least 50% of eligibility criteria as indicated at 1(a) of table in para (A) above. The lead partner and JV partner jointly should meet not less than 1.50 times the eligibility criteria as mentioned at 1(a) of table in para (A) above.

Note: The weightage given for experience of a firm would depend on the role of the firm in the respective assignments. The firm's experience would get full credit if it was the sole firm in the respective assignment. Experience weightage for firms joining Lead partner JV partner shall be considered in the same proportion as payment has been received *** by the firm towards consultancy work in the project.

*** *For weightage of experience in any past Consultancy assignment, experience certificate from the client shall be accepted. In the absence of experience certificate from the client, proportion of payment received towards Consultancy work duly certified by statutory body like Chartered Accountant or Independent Auditors who are competent to do so as recognised by the State concerned shall be accepted. The Certificate should clearly bring out proportionate input/share of each JV/Associate Partners separately towards*

remuneration and out of pocket expenses for the assignment. Annual turnover duly certified by Chartered Accountant shall be accepted. In case of non-availability of such documents no weightage of turnover/experience will be considered.

12. Following enhancement factor will be used for the cost of services provided and for the turnover from consultancy business to a common base value for works completed in India:

Year of completion of services / turnover	Enhancement factor
Financial year in which RFP invited	1.00
One year prior to RFP	1.10
Two year prior to RFP	1.21
Three year prior to RFP	1.33
Four year prior to RFP	1.46
Five year prior to RFP	1.61
Six year prior to RFP	1.77
Seven year prior to RFP	1.95

Applicant should indicate actual figures of costs and amount for the works executed by them **without accounting** for the above-mentioned factors.

In case the financial figures and values of services provided are in foreign currency, the above enhancement factors will not be applied. Instead, current market exchange rate (State Bank of India BC Selling rate as on last date of submission of the bid) will be applied for the purpose of conversion of amount in foreign currency into Indian Rupees.

13. Consultants (sole firm or lead firm and any of the JV partners) who have been debarred by any Authority and the debarment is in force as on last date of submission of proposal, need not apply as their RFP proposal will not be entertained.
14. Authority will not be responsible for any delay, loss or non-receipt of hard copy of RFP document sent by post/courier. Further, Authority shall not be responsible for any delay in receiving the Proposal and reserves the right to accept/reject any or all applications without assigning any reason thereof.
15. The two parts of the Proposal (Technical Proposal and Financial Proposal) must be submitted on-line with all pages numbered serially, along with an index of submission as per procedure under e-Tendering (copy attached). The technical proposal is also required to be submitted in hard bound form exactly as per submission made online with all pages numbered serially along with an index of submission. (Hard bound implies binding between two cover through stitching or otherwise whereby it may not be possible to replace any paper without disturbing the documents.) Spiral bound form, loose form, etc will not be accepted. The Financial Proposal is to be submitted online only. Submission in any other form shall not be acceptable. In the event, any of the instructions mentioned herein have not been adhered to, Authority may reject the Proposal.
16. Deleted

17. Deleted

18. RFP submission must be received not later than **17.00 hrs on 11.09.2017** in the manner specified in the RFP document at the address given below.

Member Secretary

Orissa Water Supply & Sewerage Board,
Satyanagar, Bhubaneswar,
Odisha, Pin-751007.
Telephone No: (0674) 2571341 / 2571185,
Fax: (0674) 2571348
Email: msowssb@gmail.com

SECTION 2

LETTER OF INVITATION TO CONSULTANTS

1 INTRODUCTION

- 1.1 Bids are invited from consulting firms either as a sole firm/ joint venture with other consultant willing to act as Authority's Engineer (AE) to submit a proposal for providing consulting services required for the assignment named in the attached Letter of Invitation. Your proposal could form the basis for future negotiations and ultimately a contract between your firm and the Authority.
- 1.2 A brief description of the assignment and its objectives are given in the Terms of Reference (TOR)
- 1.3 The assignment shall be implemented in Construction period 36 (Thirty-six) months only.
- 1.4 This RFP is neither an agreement nor an offer by the Authority to the prospective Applicants or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in the formulation of their Proposals pursuant to this RFP. This RFP includes statements and assumptions, which reflect various assessments, arrived at by the Authority in relation to the Consultancy. Such assessments and statements do not purport to contain all the information that each Applicant may require. The information contained in this RFP, may not be complete, accurate, adequate or correct. Each Applicant should, therefore, conduct its own investigations about the assignment and the local conditions before submitting the proposal by paying a visit to the Client and the project site, sending written queries to the client, before the date and time specified in the Data Sheet.
- 1.5 Please note that (i) the costs of preparing the proposal and negotiating for the contract, including a visit to site, are not reimbursable as a direct cost of assignment and (ii) Authority is not bound to accept any of the proposals received by it and reserves the right to annul the selection process at any time prior to contract award, without thereby incurring any liability to the Consultants.
- 1.6 Deleted
- 1.7 Deleted
- 1.8 Consultant have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Client, or than may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract and/or any other action as deemed fit by the Authority at any stage.
- 1.9 It is the Authority's policy that the consultants observe the highest standard of ethics during the selection and execution of such contracts. In pursuance of this policy, the Authority:
 - (a) defines, for the purpose of this paragraph, the terms set forth below as follows:

- (i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the selection process or in contract execution;
 - (ii) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a selection process or the execution of a contract;
 - (iii) “collusive practices” means a scheme or arrangement between two or more consultants with or without the knowledge of the Client, designed to establish prices at artificial, non-competitive levels;
 - (iv) “coercive practices” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract.
- (b) will reject a proposal for award if it determines that the Consultant recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question;
 - (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract; and
 - (d) will have the right to require that a provision be included requiring consultants to permit the Authority to inspect their accounts and records relating to the performance of the contract and to have them audited by authorized representatives of Authority.
- 1.10 Consultants, their Sub-Consultants, and their associates shall not be under a declaration of ineligibility for corrupt and fraudulent practices. Furthermore, the Consultants shall be aware of the provisions on fraud and corruption stated in the specific clauses in the General Conditions of Contract.
- 1.11 Consultants shall furnish information on commissions and gratuities, if any, paid or to be paid to agents relating to this proposal and during execution of the assignment if the Consultant is awarded the Contract, in the Financial Proposal.
- 1.12 The Data Sheet indicates how long Consultants’ Proposals must remain valid after the submission date. During this period, Consultants shall maintain the availability of Professional staff nominated in the Proposal. The Client will make its best effort to complete negotiations within this period. Should the need arise, however, the Client may request Consultants to extend the validity period of their proposals. Consultants who agree to such extension shall confirm that they maintain the availability of the Professional staff nominated in the Proposal, or in their confirmation of extension of validity of the Proposal, Consultants could submit new staff in replacement, who would be considered in the final evaluation for contract award.

2. CLARIFICATIONS AND AMENDMENT OF RFP DOCUMENTS

- 2.1 The Consultants may request a clarification of any of the RFP documents up to the number of days indicated in the Data Sheet before the Proposal submission date. Any request for clarification must be sent in writing by paper mail, facsimile, or electronic mail to the Client's address indicated in the Data Sheet/through e-Tendering portal. The Client will respond to such requests (including an explanation of the query but without identifying the source of inquiry) to all consultants through e-Tendering portal. Clarifications/amendment will be hoisted on e-Tendering portal.
- 2.2 At any time before the submission of Proposals, the Client may for any reason, whether at its own initiative or in response to a clarification requested by a Consulting firm, modify the RFP documents by amendment. Any amendment shall be issued through addendum. Addendum will be hoisted on e-Tendering portal which will be binding on them. The Client may at its discretion extend the deadline for the submission of Proposals.

3. PREPARATION OF PROPOSAL

- 3.1 You are requested to submit your proposal in Two Parts strictly using the formats enclosed herewith (refer section 3, 4 and 5) in 2 separate envelops/packages and put together in one single outer envelope/package. The two parts shall be:

Part 1: Technical Proposal and

Part 2: Financial Proposal.

The proposal shall be written in the English language as specified in the Data Sheet. All pages of the Proposal shall be signed by an authorized representative. The representative's authorization shall be confirmed by written Power of Attorney duly notarized to be submitted with the proposal. In case of JV, a MoU indicating the specific Projects, input and role of each Partner etc. shall be submitted with the proposal.

Part 1: Technical Proposal

- 3.2 You are expected to examine all terms and conditions included in the documents. Failure to act or to provide all requested information will be at your own risk and may result in rejection of your proposal.
- 3.3 During preparation of the Technical proposal you may give particular attention to the following:
- i. The man-months for the assignment shall be that stated in the Terms of Reference. The same shall be considered for the purpose of evaluation as well as award. In case the man months of TOR are amended in view of Client's own initiative or in response to clarification sought by any Consulting firm, the man months so amended and published shall be considered for the purpose of evaluation as well as award.
 - ii. The Consultants should prefer to field as many of their permanent staff as possible and higher marks shall be given in this regard. The permanent staff would be considered those already employed with the firm prior to one year from the month during which this Tender

Notice is issued. Applicant shall submit the details of the period of employment of the proposed personnel with the firm. More weightage will be given to those key personnel who are employed with more years with the firm.

- iii. No alternative to key professional staff may be proposed and only one Curriculum Vitae (CV) may be submitted for each position and
- iv. A good working knowledge of the language specified in the data sheet is essential for key professional staff on this assignment. Reports must be in the language (s) specified in the data sheet.
- v. Deleted

3.4 Your Technical Proposal must provide the following information, using but not limited to the formats attached in the Section 3 & 4.

- i. A brief description of the firm's organisation and an outline of recent experience of the Consultants and in the case of Joint Venture, for each partner, on assignments of a similar nature. The information which you shall provide on each assignment should indicate, *inter-alia*, the profiles of the staff provided, duration, contract amount and firm's involvement. ***The details of assignments on hand shall also be furnished.***
- ii. Any comments or suggestions on the ToR and a description of the methodology (work plan) which the firm proposes to execute the services, illustrated with bar charts of activities.
- iii. The composition of the proposed staff team, the tasks which shall be assigned to each and their timing;
- iv. Requirement for submission of CVs.
 - a. CVs strictly in the prescribed format and recently signed in blue ink on each page by both the proposed professional staff and the Managing Director/Head or the authorized representative of the firm.
 - b. Key information should include years with the firm and degree of responsibility held in various assignments. In CV format, at summary, the individual shall declare his qualification & total experience (in years) against the requirements specified in TOR for the position (Ref. Enclosure-B of TOR). If any information is found incorrect, at any stage, action including termination and debarment from future projects up to 2 years may be taken by Authority on the personnel and the Firm.
 - c. If same CV is submitted by two or more firms in an assignment, zero marks shall be given for such CV. Key personnel has to certify in their CV that he has not consented to any consultant other than the applicant to propose their CV in any other position for this assignment. In case, the Key personnel is found having given consent to more than the one bidder, he shall be debarred for Authority's works for two years
 - d. CVs of Key Personnel having intermittent inputs will be considered only if the assignments on hand as on 7 days prior to last date of submission of proposal including those assignments for which Consultant has been declared as H1 where the Key

Personnel is part of the team do not exceed 3 (three) for the position of Design/Schedule Engineer, Procurement Specialist and Structural Engineer/Mechanical Engineer/Electrical Engineer.

- e. All the CVs which are to be evaluated should be complete in all respects including signing and certification by the individual and the firm.
- f. If a CV score less than 75% marks, whatever marks it scores will be carried forward for maximum 6 (six) Nos. key personnel for determining the total score of the firm. However, if the Key Personnel does not fulfil the minimum academic qualification (as mentioned at Enclosure-B of TOR of RFP), the overall score of his CV will be evaluated as zero.

If the Key Personnel does not fulfil the qualification related to experience (as mentioned at Enclosure-B of TOR of RFP), then marks will only be assigned for that sub criteria based on the experience, and the marks obtained by the CV of the Key Personnel will be carried forward for maximum 6 (six) Nos key personnel for determining the total score of the firm.

In case, a firm is L-1, then all such Key Personnel (whose CV scores less than 75% or who does not fulfil the minimum essential qualification) will have to be replaced by the firm at the time of contract negotiations by persons scoring at least 75% marks.

The reduction in remuneration of such replacements will be made @ 15% of the rate proposed. In case more than 6 (six) CV scores less than 75% marks, the proposal shall be considered non-responsive.

- v. Deployment Schedule for each key personnel should be formulated and incorporated in the Technical Proposal which will be reviewed on quarterly basis.
- vi. Estimates of the total time effort (person x months) to be provided for the services, supported by bar chart diagrams showing the time proposed (person x months) for each professional staff and sub professional staff.
- vii. A certification to the effect should be furnished by the Consultant that they have checked the qualifications and experiences details submitted by the key personnel in their CVs and found to be correct. This certification should be made in CVs of all key personnel after the certification by the candidate. The format of CV includes certification to this effect.
- viii. Each key personnel of the preferred Consultant shall be called for interview at the time of negotiation at the cost of Consultant.
- ix. Replacement of key personnel shall be considered only in unavoidable circumstances. In no case more than five (5) replacements of key personnel shall be permitted during negotiation and in such cases Consultant and such key personnel shall have to submit affidavit to the effect that during the period of assignment specified in Para 8 of Section:1, the replaced key personnel shall not be professionally

employed anywhere in Authority works. Authority shall not further consider CV of such key personnel directly or indirectly for any of its projects for this period. 10% reduction in remuneration shall be considered for each such substitution up to 5 replacements. In case during negotiations held within validity period of bid, more than five replacements are sought by the L-1 consultant; his proposal shall be considered as Non-Responsive. In such case the combined score of next five top firms, scored more than 75% meeting the non-conflict condition shall be evaluated to arrive at new L-1. In case when less than five firms are available, the next highest scoring firm shall be considered as L-1.

In case during interaction with the key personnel at the time of negotiation if it is found that the key personnel proposed is un-suitable for the assignment position, his replacement by equivalent or better shall be provided by the consultant. The key personnel with such un-suitable CV shall not be considered in any future bids for that position for two years.

In the eventuality that a firm becomes non-responsive, for the third time, due to the action of replacements of more than 3 key personnel during negotiation, the firm and its constituent JV partners and Associates shall be debarred up to two years for Authority consultancy projects.

- x. The deployment of manpower shall be in cogent with the progress of work and the Consultants shall propose the deployment of manpower, in advance to the Employer for approval with adequate justification & get it approved from Employer, prior to mobilization of their personnel. This is required to ensure that there is no excess deployment of manpower or Man-months than actually required based on the progress of work in the field.

The Cost estimates in the financial proposal shall be the ceiling amount and the payment shall be made on the basis of actual deployment of staff / actual bills as the case may be subject to the ceiling amount (wherever defined in the proposal). However, amount of individual sub items within the ceiling limit is interchangeable / adjustable.

- xi. Any additional information.

3.5 The technical proposal must not include any financial information.

Part 2:Financial Proposal

- 3.6 Your Financial Proposal must be strictly using the formats attached in section 5. No additional items/quantities other than that specified in the formats should be proposed by the Consultants since the same shall not be considered for the evaluation/award. For the first 18 months from the Date of Commencement of Services, Consultants shall be paid billing rates as indicated above. Beginning 19th months of the services provided, billing rates shall be increased for the remuneration part only @ 8% every 18 months for the subsequent period of services rendered by the personnel of all categories namely (i) Key Personnel; (ii) Sub-Professional personnel and (iii) Support staff. However, for evaluation and award of the Bid proposals, the quoted initial rate (as applicable for first 18 months) shall be multiplied by the total time input for each position on this contract, i.e. without considering the increase in the billing rates.

- 3.7 The Financial Proposal may identify as a separate amount, the local taxes (including social security), duties, fees, levies and other charges imposed under the applicable law, on the consultants, the sub-consultants, and their personnel (other than nationals or permanent residents of the government's country); unless the Data Sheet specifies otherwise.
- 3.8 Consultants shall express the price of their services in the Local currency (Indian Rupees) only. The bidder is required to quote the rates without GST in the appropriate column of the BOQ of financial proposal.
- 3.9 The bidder should have registered/migrated to GST and the GST registration details should be provided along with the bidding documents. The GST (earlier service tax in this case) shall be considered for reimbursement along with invoice subject to condition that Consultant submits the proof of deposit of the same with a Certificate from CA firm within a period of 90 days of remittance of such GST.

4. SUBMISSION, RECEIPT AND OPENING OF PROPOSALS

4.1 PREPARATION & SUBMISSION OF APPLICATIONS:

- i. Detailed RFP may be downloaded from State Government **tenders site i.e. <https://tendersorissa.gov.in> / <https://tendersodisha.gov.in>** and the Application may be submitted online following the instructions appearing on the screen. The procedure for e-Tendering is enclosed in this RFP.
- ii. The following shall be the form of various documents in the Application:
 - A. Only Electronic Form (to be uploaded on the Tender Portal)**
 - (a) Technical proposal as indicated in para 'B' below.
 - (b) Financial proposal as per format prescribed in SECTION-5 of RFP.
 - B. Hard copy in Original to be submitted in Sealed Envelope and also Electronic form to be uploaded on the Tender Portal**
 - (I) Technical proposal in Hard Bound Form including
 - (a) Power of Attorney for signing the Application
 - (b) If applicable, the Power of Attorney for Lead Member of JV;
 - (c) Copy of Memorandum of Understanding between JV partners, if applicable
 - (d) Copy of Memorandum of Understanding with Associate, if applicable
 - (e) Firms credentials as per format prescribed in SECTION-3 of RFP.
 - (f) Technical proposal as per format prescribed in SECTION-4 of RFP
 - (g) Bid security of Rs.34.81 lakh (Rupees Thirty-four lakh and eighty one thousand) only in shape of Postal Savings, Pass Book/NSC/Post Office Time Deposit/Kissan Vikash Patra/Deposit Receipt in Nationalised/Scheduled Bank duly pleaded in favour of Member Secretary, OWSSB, Bhubaneswar payable at Bhubaneswar shall be submitted by the bidder (Lead Member/JV partner/Associate firm). The bidder (Lead

Member/JV partner/Associate Firm) may also furnish the Bid security in shape of Bank Guarantee acceptable to the Authority, as per format at Annexure-1 from a Nationalized/Scheduled Bank in India counter guaranteed by its branch at Bhubaneswar. The validity period of the Bank Guarantee shall not be less than 180 days (one hundred & eighty) days from the Bid due date, inclusive of claim period of 60 (sixty) days and may be extended as may be mutually agreed between the Authority & the Bidder.

The counter guarantee for the bid security should be provided by the local branch of the bank issued the bank guarantee by giving undertaking that *“We hereby counter guarantee the BG No. ----- issued by ----- branch towards the bid security which can be invoked/liquidated when produced by the client in whose favour the said BG has been issued within the period of validity in our branch at Bhubaneswar in case of any breach or failure to perform by the bidder as per the terms and conditions stipulated in the bid”*

- (ii) Cost of RFP of Rs. 10,000/- (Rupees Ten thousand only) plus applicable GST in the form of demand draft in favour of the Member Secretary, OWSSB, Bhubaneswar payable at Bhubaneswar.
- (iii) The Applicant shall submit the original documents specified above in point No. 4.1 (ii) B together with their respective enclosures and seal it in an envelope and mark the envelope as “Technical Proposal” for the Project for which proposal is submitted and name and address of the Applicant. The envelope must be clearly marked **“DO NOT OPEN, EXCEPT IN THE PRESENCE OF THE EVALUATION COMMITTEE”** In addition, the Application due date should be indicated on the right-hand corner of the envelope. The original documents should be submitted before 17:00 hours Indian Standard Time within three working days from the application due date i.e. on 11.09.2017 at the below mentioned address in the manner and form as detailed in the RFP. A receipt thereof should be obtained from the below mentioned person.

ATTEN. OF:.....

Member Secretary
Orissa Water Supply & Sewerage Board,
Satyanagar, Bhubaneswar,
Odisha, Pin-751007.
Telephone No: (0674) 2571341 / 2571185,
Fax: (0674) 2571348
Email: msowssb@gmail.com

- iv. The Applicant shall upload scanned copies of the Technical Proposal and Financial Proposal as specified in point Nos. **4.1 (ii) A (a) and B** above on the Tender Portal before 17:00 hours Indian Standard Time on the Application due date i.e. on 11.09.2017. Hard copy of the documents as specified in point Nos. 4.1 (ii) B above is only required to be submitted. Financial Proposal as specified in point No. **4.1 (ii) A (b)** is to be submitted

online only & no hard copy submission is to be made. In the event of any discrepancy between the Hard Copy and online submission copy of technical proposal (in electronic form), the online submission shall prevail.

- v. It may be noted that the scanned copies can be prepared in file format i.e. PDF and/or JPEG only. The Applicants can upload a single file of size of 5 MB only but can upload multiple files.

4.2 Modification / Substitution/ Withdrawal of bids:

- (i) Resubmission of bid by the bidders for any number of times before the final date and time of submission is allowed.
- (ii) Resubmission of bid shall require uploading of all documents including price bid a fresh.
- (iii) If the bidder fails to submit his modified bids within the pre-defined time of receipt, the system shall consider only the last bid submitted.
- (iv) The bidder should avoid submission of bid at the last moment to avoid system failure or malfunction of internet or traffic jam or power failure etc.
- (v) The Bidder can withdraw his bid before the closure date and time of receipt of the bid by uploading scanned copy of a letter addressing to the Procurement Officer Publisher (Officer Inviting Tender) citing reasons for withdrawal. The system shall not allow any withdrawal after expiry of the closure time of the bid.
- (vi) Any alteration/modification in the Bid or additional information supplied subsequent to the Bid Due Date, unless the same has been expressly sought for by the Authority, shall be disregarded.

4.3 OPENING AND EVALUATION OF APPLICATIONS:

- (i) Opening of Proposals will be done through both online and manually for Technical proposal and through online for financial proposal.
- (ii) For participating in the tender, the authorized signatory holding Power of Attorney shall be the Digital Signatory. In case the authorized signatory holding Power of Attorney and Digital Signatory are not the same, the bid shall be considered non-responsive.

The Authority shall open envelope containing Technical Proposal received as mentioned in point Nos. **4.1 (ii) B** at 11.00 hrs. Indian Standard Time on the application opening due date i.e., on 15.09.2017 in the presence of the Applicants who choose to attend. The Authority will subsequently open the forms as mentioned in point No. **4.1 (ii) A (a)** above and evaluate the Applications in accordance with the provisions set out in the RFP.

- (iii) The Financial Proposal **4.1 (ii) A (b)** will be opened of the short-listed applicants who qualify for financial opening as per RFP. The date of opening of Financial Proposal will be notified later on.

- 4.4** Your completed proposal must be submitted on or before the time and date stated in the Data Sheet.

5 PROPOSAL EVALUATION

- 5.1 A two -stage procedure shall be adopted for evaluating the proposals.
- 5.2 Deleted

Technical Proposal

- 5.3 The Evaluation Committee appointed by the Authority shall carry out its evaluation applying the evaluation criteria and point system specified in the data sheet. Each responsive proposal shall be attributed a technical score (S_t). The technical proposal should score at least 75 points to be considered responsive. The Authority shall shortlist 5 (five) top firms on the basis of their technical score.

Financial Proposal

- 5.4 After the evaluation of Technical Proposals is completed and the shortlist of 5 firms is finalised, Authority may notify those consultants whose proposals were not considered as per conditions of RFP. The Authority shall simultaneously notify the finally selected 05 (five) shortlisted firms indicating the date and time set for opening of the Financial Proposals.
- 5.5 The Financial Proposals shall be opened publicly in the presence of the consultants' representatives who choose to attend. The name of the consultant, the technical scores, and the proposed prices shall be read aloud and recorded when the Financial Proposals are opened. The Client shall prepare minutes of the public opening.
- 5.6 The Evaluation Committee will determine whether the submitted Financial Proposals are complete (i.e. whether they have included cost of all items of the corresponding proposals; if not, then the cost towards such missing items will be considered as NIL, but the Consultant shall, however, be required to carry out such obligations without any additional compensation. In case under such circumstances, if Client feels that the work cannot be carried out within the overall cost as per the submitted financial proposal, such proposals shall be considered non responsive.
- 5.7 The Evaluation Committee shall determine if the financial proposal is complete and without computational errors. The rank of proposal shall be determined according to their financial quote.
- 5.8 Proposals shall finally be ranked according to their financial quote. The award of work shall be done on least cost basis (Cost Based Selection approach) among the top 5 qualifying consultants shortlisted after Technical Evaluation.

6 NEGOTIATIONS

- 6.1 Prior to the expiration period of validity of proposal, the Authority shall notify the successful firm who submitted the lowest bid in writing by registered letter or facsimile and may either issue LOA if negotiations are not required or may invite it to negotiate the contract. In case two or more firms obtain same bid price, the firm achieving the highest Technical score shall be invited first for negotiations.
- 6.2 Negotiations normally take one to two days. The aim is to reach agreement on all points, and initial a draft contract by the conclusion of negotiations.
- 6.3 In case 1st round negotiation is not held within 180 days from the Bid Receipt

Date due to reasons attributable to Authority, the lowest bidder shall be permitted for replacement up to maximum of 50% key personnel with key personnel of equivalent or better qualifications without considering the same as replacement and without any deduction. However, for avoidance of doubt, it is clarified that replacement of key personnel whose CV has scored less than 75% marks shall continue to be considered as replacement as per para 3.4(iv)(f).

- 6.4 Negotiations shall commence with a discussion of your technical proposal, the proposed methodology (work plan), staffing. Agreement must then be reached on the staffing and bar charts, which shall indicate activities, staff, periods in the field and in the home office, staff months, logistics and reporting. Special attention shall be paid to optimise the required outputs from the firm within the available budget and to define clearly the inputs required from the Authority to ensure satisfactory implementation of the assignment.
- 6.5 It is the responsibility of the Consultant, before starting financial negotiations, to contact the local tax authorities to determine the local tax amount to be paid by the Consultant under the Contract. The financial negotiations will include a clarification (if any) of the firm's tax liability in the Client's country, and the manner in which it will be reflected in the Contract; and will reflect the agreed technical modifications in the cost of the services.
- 6.6 Having selected a firm, among other things, on the basis of an evaluation of proposed key professional staff, the Authority expects to negotiate, a contract on the basis of the staff named in the proposal and, prior to contract negotiations, will require assurance that this staff shall be actually available.
- 6.7 Replacement of key personnel shall be considered only in unavoidable circumstances. In no case more than five replacements of key personnel shall be permitted during negotiation and in such cases Consultant and such key personnel shall have to submit affidavit to the effect that during the period of assignment specified in para 8 of Section:1, the replaced key personnel shall not be professionally employed anywhere in Authority works. Authority shall not further consider CV of such key personnel directly or indirectly for any of its projects for this period. 10% reduction in remuneration shall be considered for each such substitution up to 5 replacements. In case during negotiations, more than five replacements are sought by the L-1 consultant, his proposal shall be considered as Non-Responsive. In such case the combined score of next five top firms, meeting the non-conflict condition shall be evaluated to arrive at new L-1. In case when less than five firms are available, the next lowest quoted firm shall be considered as L-1.

In case during interaction with the key personnel at the time of negotiation it is found that the key personnel proposed is un-suitable for the assignment position, his replacement by equivalent or better shall be provided by the consultant. The key personnel with such un-suitable CV shall not be considered in any future bids for that position for two years. No deduction for such replacement who are not found suitable during interaction shall be made.

In the eventuality that a firm becomes non-responsive, for the third time, due to the action of replacements of more than 3 key personnel during negotiation, the firm and its constituent JV partners and Associates shall be debarred up to two years for Authority consultancy projects.

- 6.8 Each key personnel of the preferred consultant shall be called for interview at the time of negotiation at the cost of the Consultant. At the time of interview, the key

personnel shall produce the originals of the certificates (Proof of age, Qualifications and experience from their respective employers) in support of their CVs for verification and return. The negotiations shall be concluded with a review of the draft form of Contract. The Authority and the firm will finalise the contract to conclude negotiations.

7 **AWARD OF CONTRACT**

- 7.1 After completion of negotiations with the consultants, the Client shall award the Contract to the selected Consultant.
- 7.2 The successful firm with whom the contract is signed is expected to commence the assignment on the date and at the location specified in the data sheet.

8 **BID SECURITY**

- (i) The Bid security of unsuccessful tenderes shall be returned after the tender is finalized or end date of the Tender validity period whichever is earlier.
- (ii) The bid security furnished by the successful bidder will not carry any interest and it will be returned to the bidder after furnishing the performance security by them.
- (iii) The Bid Security shall be forfeited if (a) a successful bidder fails to sign the Agreement for whatever reason, or (b) the bidder withdraws the tender during the validity period of tender.

DATA SHEET
(As Mentioned in Letter of Invitation to Consultants)

Sub clause No. in Letter of Invitation to Consultants

- 1.4 Pre-Proposal Conference shall be held at: Orissa Water Supply & Sewerage Board Head Office at Satyanagar, Bhubaneswar on 22.08.2017 at 11.00 Hours.
- 1.12 The proposal shall be valid for 120 days after the last date of submission.
- 2.1 Clarification may be requested 2 days prior to Pre Proposal Conference. The address for requesting clarification is:

Member Secretary
Orissa Water Supply & Sewerage Board,
Satyanagar, Bhubaneswar,
Odisha, Pin-751007.
Telephone No: (0674) 2571341 / 2571185,
Fax: (0674) 2571348
Email: msowssb@gmail.com

- 3.1 The Language of documents and correspondence will be in English
- 3.3 All the personnel shall have working knowledge of English and all the reports etc shall be written in English.
- 3.7 Authority shall reimburse only Goods and Service Tax. Consultant has to assess all other taxes and should bid them into their financial proposal (except Goods and Service Tax). These taxes (other than Goods and Service Tax) should not be provided separately. Consultants are requested to consult Tax Consultants for details.
- 3.8 The Consultants to state local cost in INR only.
- 4.4 The time and last date of Submission: **17.00 hrs on 11.09.2017.**

Schedule of Bidding Process

The Authority shall endeavour to adhere to the following schedule:

Sl. No.	Event Description	Date
1.	Invitation of RFP (NIT)	10.08.2017 11.00 hrs. IST
2.	Last date for receiving queries	21.08.2017 17.00 hrs. IST
3.	Pre-bid Conference at O/o the MS, OWSSB, Bhubaneswar	22.08.2017 11.00 hrs. IST
4.	Authority's response to queries latest by	24.08.2017
5.	BID Due Date	11.09.2017 17.00 hrs. IST
6.	Physical Submission of Bid Security/ POA etc	12.09.2017 10.00 hrs. IST to 14.09.2017 up to 17.00 hrs. IST
7.	Opening of Technical BIDs at O/o the MS, OWSSB, Bhubaneswar	15.09.2017 at 11.30 hrs. IST

5.3 The points assigned to Technical Evaluation criteria are:

S. No.	Description	Marks
1.	Relevant experience of the Firm for the assignment	25
2.	Qualifications and competence of the key staff for the assignment	75
	Total	100

(i) Sub-criteria for Relevant Experience of the firm for the assignment

S. No.	Sub-Criteria	Maximum Marks
i.	Year of Establishment of the Firm (In case of JV, year of establishment of Lead Member shall be considered) Up to 3 years = 1 Mark More than 3 – up to 7 years = 3 Marks More than 7 years = 5 Marks	5
ii.	Experience in DPR preparation (water supply/Sewerage) of at least 50% of the present project capacity for which RFP invited, in last 7 years. 1 Sewerage project = 6 Marks Add 2 Marks for each completed additional projects (Maximum up to two projects of at least 50% of the present project capacity for which RFP invited, in last 7 years either in water supply or sewerage sector).	10
iii.	Experience as Independent Engineer / Construction Supervision for Sewerage project of at least 50% of project value for which RFP invited, in last 7 years* 1 Sewerage Project = 6 Marks Add 2 Marks for each completed additional projects (Maximum up to two projects of at least 50% of project capacity for which RFP invited, in last 7 years either in water supply or sewerage sector).	10
	Total	25

In case of JV the turnover and experience details of Lead and JV partners to be added.

Employer's certificate should be submitted substantiating the experience claimed by the firm.

(ii) Deleted.

- (iii) Qualification and competence of following Key Personnel for the assignment shall be evaluated. The weightage for various key staff are as under: -

Sl. No.	Staff position	Marks in case of Single project
1	Team Leader-cum-Sewerage Expert (1 No)	9
2	Deputy Team Leader (2 Nos)	10 (2x5)
2.	Construction Manager (5 Nos)	20 (5x4)
3.	Procurement cum Contract Specialist (2 Nos)	8 (2x4)
4.	Electrical & Instrumentation Engineer (3 Nos)	6 (3x2)
5.	Mechanical Engineer (3Nos)	6 (3x2)
6.	Structural Engineer (3 Nos)	6 (3x2)
7.	Process Design/ Schedule Engineer (2 Nos)	4 (2x2)
8.	Senior Quantity Surveyor (2 Nos)	6 (2x3)
	Total	75

Sub criteria for qualification of key Personnel (i.e. Professional staff)

S. No.	Sub-Criteria	Maximum Marks
1	Suitability/Adequacy for the Project	
a.	Educational qualifications	20
b.	Qualifications and competence of the key professional for the assignment	60
	Sub total	80*
2.	Preferential qualifications	10
3.	Employment with firm	5
4.	Familiarity with language of the Region (Hindi and/or Oriya) and English	5
	Total	100

The Key professional should score at least 75 marks out of total 100 marks to become eligible, in which he/she must score minimum 70 Marks under suitability for the project (Total assigned Marks-80) and the remaining Marks under the other qualification criteria.*

- (iv) For Evaluation of (3) “Employment with firm” criteria as above, following weightage shall be applied for evaluation of Key personnel.

Less than 1 year = 0 Marks
 1 year to 2 years = 3 Marks
 > 2 years = 5 Marks

- (v) For the evaluation of proficiency in English, Hindi and or Oriya Languages the following Marks will be awarded.
- | | |
|------------------------------------|-----------|
| English, Hindi and Oriya | = 5 Marks |
| English and Oriya | = 4 Marks |
| English and Hindi | = 3 Marks |
| English and other Indian Languages | =2 Marks |
- (vi) The technical proposal should score at least 75 points to be considered responsive for financial evaluation.
- 5.4 Deleted
- 5.5 Deleted
- 5.6 The single currency for price conversion is INR only.
- 5.8 The award of contract is based on least cost basis (cost based selection approach) among the top five qualifying consultants, meeting non-conflict and other eligibility requirements, shortlisted after Technical Evaluation.
- 7.2 Commencement of Assignment: The firm shall begin carrying out the services within one month of signing of the Consultancy Agreement.

SECTION 3

FORMATS FOR SUBMISSION OF FIRMS CREDENTIALS

The proposal should contain the following information in enclosed format attached at Appendix A.

- Year of Establishment of Firm
- Average annual turnover (last five years)

Note: The Firm shall submit Certificate of Incorporation and audited balance sheet for the last five years (FY 2012-2013, FY 2013-2014, FY 2014-15, FY 2015-16 & FY 2016-2017). For claiming experience of sewerage and drainage projects completion certificate from employer should be enclosed. The proposal should also contain the details of the key personnel viz., their name, qualification, expertise area, experience and years of association with the firm.

Appendix A

The following information related to the firm should be provided in the proposal.

- i. Name of the package applied for:
- ii. Year of establishment of firm *

Consultant	Year of Establishment	Country	Type of Organization			
			Individual	Partnership	Corporation	Other
Individual / Lead Partner (of JV)						

NOTE:- Year of Establishment of Lead Partner of JV shall be considered.

*Copy of Certificate of incorporation shall be submitted.

- iii. Office/Business Address/Telephone Nos/Cable Address.
- iv. Narrative description of firm (Not more than 2 sheets)
- v. Name of two (2) principals who may be contacted with title and telephone number/fax number/e-mail.
- vi. Financial Statement of the last five years. **

Sl. No.	Particular	2016-17	2015-16	2014-15	2013-14	2012-13
i.	Annual turnover from					
ii.	Total Assets					
iii.	Current Assets					

- c) Balance Sheet/ Auditor Certificate of last 5 years (2012-13, 2013-14, 2014-15, 2015-16 & 2016-17) shall be submitted as evidence of Annual Turnover.

- **a) The amount shall be stated in INR. (Consider 1 US Dollar = Rs. And 1 Euro = Rs.)
 b) The currency conversion rate for the respective years shall be mentioned for other International currencies.

- vii. Experience as Independent Consultant/ Construction supervision of Sewerage projects, separately for PPP and non-PPP Projects during the last 7 years. ***

S. No	Projects Name / Year	Type of Services Rendered	Description of the sewerage project (Length of sewer network, capacity of STP in MLD)	Client (with complete address, contact person, telephone Nos. And Fax Nos.)	Total Fee for the Consultancy Assignment (INR)	Fee received by Applicant (i n case of JV/Association)	%age of total fee received by the firm	Approx . cost of sewerage Project	Period	
1	2	3	4	5	6	7	8	9	10	
			A. Completed / Substantially completed projects: 1. 2. 3. B. Projects in progress: 1. 2. 3.							

- viii. Experience in DPR preparation of sewerage Projects separately for the PPP and non-PPP projects during the last 7 years. ***

Sl. No	Projects Name / Year	Type of Services Rendered	Capacity of the sewerage project (Length of sewer network, capacity of STP in MLD)	Client (with complete address, contact person, telephone Nos. and Fax Nos.)	Total Fee for the Consultancy Assignment (INR)	Fee i n INR (Applica nt's share)	%age of total fee received by the firm	Period
1	2	3	4	5	6	7	8	9

- *** a) Deleted
- b) Only those projects, to be included in the table which are Sewerage/Water supply Projects and for which client's certificates from the concerned Government agencies are enclosed with the proposal.
- c) The details of STP having capacity more than 28 MLD in the listed projects is to be specifically mentioned.
- d) The weightage given for experience of a firm would depend on the role of the firm in the respective assignments. The firm's experience would get full credit if it was the sole firm in the respective assignment. Experience weightage for firms as Lead partner/JV partner /Associate shall be considered in the same proportion as payment has been received by the firm towards consultancy work in the project.
- e) For weightage of experience in any past Consultancy assignment experience certificate from the client shall be accepted. In the absence of experience certificate from the client, proportion of payment received towards Consultancy work duly certified by statutory body like Chartered Accountant or Independent Auditors who are competent to do so as recognised by the State concerned shall be accepted. Annual turnover duly certified by Chartered Accountant shall be accepted. In case of non-availability of such documents no weightage of turnover/experience will be considered.
- (ix) Assignments on hand including those for which the Letter of Acceptance from the clients received as on 7 days prior to due date for submission of proposals: The details shall be given in the following format.

Sl. No.	Name of Assignment	Client	Role of the firm Sole, Lead/ Other in JV or sub-consultant	Date of letter of Acceptance	Date of Agreement if signed	Present status of Assignment	Team Members provided by the firm		
							Name	DOB	Position
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

SECTION 4**FORMAT FOR SUBMISSION OF TECHNICAL PROPOSAL**

Appendix B-1	Technical proposal submission form.
Appendix B-2	Firm's comments and suggestions on the Terms of Reference and on data, services, and facilities to be provided by the AUTHORITY.
Appendix B-3	Approach paper on methodology and work plan for performing the assignment.
Appendix B-4	Composition of the Team and Task(s) of each Team member
Appendix B-5	Curriculum vitae of proposed Professional staff.
Appendix B-6	Time schedule for deployment of Professional staff
Appendix B-7	Activity (works) schedule.
Appendix B-8	Affidavit for correctness of CV's of key personnel and experience claimed by the firm.

APPENDIX B-1**Technical and Financial proposal submission form**

From (Name of Firm)

To: (Name and Address of Client)

Madam/Sir,

Subject: Submission of Technical and Financial Proposal for engagement as Authority's Engineer for the EPC work - _____.

We, the undersigned, offer to provide the consulting services for the above in accordance with your Request for Proposal dated (Date), and our proposal. We are hereby submitting our Proposal, which includes this Technical Proposal and a Financial Proposal sealed under a separate envelope for the above mentioned work.

We understand that Authority shall be at liberty to keep the credentials of Consultants submitted at bidding stage, in public domain and the same may be uploaded by Authority on Authority website. We undertake that we shall have no objection if Authority uploads/ hoist the information pertaining to credentials of our firm as well as of our key personnel.

If negotiations are held during the period of validity of the Proposal i.e. before (Date) we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from contract negotiations.

We understand you are not bound to accept any Proposal you receive

We remain,

Yours sincerely,

Managing Director/Head of the firm/
 Authorised Representative of
 the firm ----- *
 (Name of the firm)

Address

*Lead Member in case of JV

APPENDIX B-2

Comments and suggestions of consultants on the Terms of Reference and on Services and facilities to be provided by the Authority

On the Terms of Reference (not more than one page):

- 1.
- 2.
- 3.
- 4.
-

On the services and facilities to be provided by the Authority (not more than one page)

- 1.
- 2.
- 3.
- 4.
-

APPENDIX B-3

Approach paper on Methodology and work plan for performing the assignment

(not more than six pages)

APPENDIX B-4**Composition of the Key Professional and task(s) of each team member****1. Technical/Managerial Staff**

Sl. No.	Name	Position	Task
1			
2			
3			
4			
..			
..			

2. Sub Professional (Name optional)

Sl. No.	Name	Position	Task

3. Support Staff (Name optional)

Sl. No.	Name	Position	Task

APPENDIX B-5**Format of Curriculum Vitae (CV) for proposed Key Professional**

Proposed Position :

Name of Firm :

Name of Staff :

Profession :

Date of Birth :

Years with Firm/Entity : Nationality :

Membership of Professional Societies :

Detailed Task Assigned :

Photograph

S.No	Name of Employer	Post Held	Project Name	Period		Assignment in the Project	Client of the Project	Remark
				From	To			

Education :

[Summaries college/university and other specialized education of staff member, giving their names, dates attended, and degrees obtained. Use about one quarter of a page.]

Key Qualifications:

[Give an outline of staff member's experience and training most pertinent to tasks on assignment. Describe degree of responsibility held by staff member on relevant previous assignments and give dates and locations. Use about half a page.]

Employment Record :

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, name of employing organisations, titles of positions held, and locations of assignments. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about three-quarters of a page.]

Languages :

[For English language indicate proficiency : excellent, good, fair, or poor; in speaking, reading, and writing]

Summary of Qualification & Experience vis-à-vis the requirements as per TOR

Requirements as per TOR (Enclosure-B)	Possessed by the Staff Member	Break-up of experience	
		Brief Description of Project	Man-months provided

Certification by the Candidate

I, the undersigned, (Name and Address) undertake that this CV correctly describes myself, my qualifications and my experience and Authority would be at liberty to debar me if any information given in the CV, in particular the Summary of Qualification & Experience vis-à-vis the requirements as per TOR is found incorrect. I further undertake that I have neither been debarred by any Authority nor left any assignment with the consultants engaged by any Authority / contracting firm for any continuing work of any Authority without completing my assignment. I will be available for the entire duration of the current project “*Name of the Sewerage Project*”. If I leave this assignment in the middle of the work, Authority would be at liberty to debar me from taking any assignment in any of the Authority works for an appropriate period of time to be decided by Authority. I have no objection if my services are extended by Authority for this work in future.

I further undertake that my CV is being proposed for this project by (the applicant firm) and I have not given consent to any other consultant (s) to propose my CV for any position for this project.

I further undertake that if due to my inability to work on this project due to unavoidable circumstances, due to which consultant’s firm is forced to seek replacement. In such unavoidable circumstances, I shall not undertake any employment in Authority projects during the period of assignment of this project and Authority shall consider my CV invalid till such time.

I undertake that I have no objection in uploading / hoisting of my credentials by Authority in public domain.

For Key Personnel having intermittent inputs, add the following:

I further certify that I am associated with the following assignments as on date (as on 7 days prior to due date for submission of proposal) including those for which LOA has been received by the firm and the inputs in these assignments shall not affect the work of the current assignment.

Name of Assignment	Client	Date of LOA	Likely start (Month / Year)	Likely end (Month / Year)	Total input of the person (man-months)

Note: CVs of Key Personnel having intermittent inputs will be considered only if the assignments on hand as on 7 days prior to last date of submission of proposal including those assignments for which Consultant has been declared as HI where the Key Personnel is part of the team do not exceed 3 (three) for the position of Design/Schedule Engineer, Procurement cum contract Specialist and Structural Engineer/Mechanical Engineer/Electrical Engineer.

.....
(Signature of Key Personnel)

Date

(Day/Month/Year)

Certification by the firm

The undersigned on behalf of -----(name of consulting firm) certify that the qualification and experience details of Shri ----- (name of the proposed personnel and address) as described in the CV has been checked and found to be correct. It is also certified that Shri----- -- (name of proposed personnel) to the best of our knowledge has neither been debarred by any Authority nor left his assignment with any other consulting firm engaged by any Authority / Contracting firm (firm to be supervised now) for the ongoing projects. We understand that if the information about leaving the past assignment is known to AUTHORITY, the AUTHORITY would be at liberty to remove the personnel from the present assignment and debar him for an appropriate period to be decided by AUTHORITY.

.....

Date :
(Day/Month/Year)

[Signature of authorised representative of the Firm]

Note:-

- a) **Personnel is to affix his recent photograph on first page of CV.**
- b) **Complete address and phone number of the Personnel is to be provided.**
- c) **Document for proof of age is to be enclosed.**
- d) **Document for proof of qualification is to be enclosed.**
- e) **Age of the personnel shall not be more than as specified.**
- f) **Experience Certificates from Employers to be attached.**

APPENDIX B-6**Time schedule for Key Professionals and Sub Professionals****A. Activity Schedule**

Sl. No.	Name	Position	Month wise Program (in the form of Bar Chart) <i>[1st, 2nd, etc. are months from the start of assignment]</i>													Number of Months
			1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th and subsequent years		
1															Subtotal (1)	
2															Subtotal (2)	
3															Subtotal (3)	
4															Subtotal (4)	
-															-	
-															-	

APPENDIX B-7**Activity (works) schedule****A. Activity Schedule**

Sl. No.	Item of Activity (Works)	Month wise Program (in the form of Bar Chart) <i>[1st, 2nd, etc. are months from the start of</i>											
		1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th
1												
2												
3												
4												
-												
-												

B. Completion and Submission of Reports

S. No	Reports	Programme : (Date)
1	Monthly reports (Design and Construction)	
2	Quarterly Reports	
3	Various others report as provided in the EPC Agreement such as Completion Report	

APPENDIX B-8**Affidavit for correctness of CV of Key personnel and experience claimed
by the firms**

(To be submitted on non-judicial Stamp Paper)

I, the undersigned, on behalf of (Name of the Consultant submitting the proposal) do hereby certify that the details furnished in this proposal including CV of key personnel and experience claimed by the firm/ firms are true and correct to the best of my knowledge and belief.

**Managing Director/ Head of the Firm/
Authorised Representative of firm*
Address**

***Lead member in case of JV**

SECTION 5:

FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL.

(To be submitted in Excel document template uploaded by the Authority in online mode only)

Appendix C-1 Financial proposal submission form

Appendix C-2 Summary of costs (To be uploaded separately in online mode only)

Appendix C-3 Breakdown of local currency costs

Appendix C-4 Breakdown of foreign currency costs

APPENDIX C-1: FINANCIAL PROPOSAL SUBMISSION FORM**From: (Name of Firm)****To:****Member Secretary**Orissa Water Supply & Sewerage Board,
Satyanagar, Bhubaneswar,
Odisha, Pin-751007.

Telephone No: (0674) 257134/ 2571185,

Fax: (0674) 2571348

Email: msowssb@gmail.com

Subject:

We, the undersigned, offer to provide the consulting services for the above in accordance with your Request for Proposal dated [Date], and our proposal. Our financial proposal has been uploaded separately under cover 2 i.e. finance bid through e-tendering.

Our financial proposal shall be binding upon us subject to the modifications resulting from contract negotiations, up to the expiration of the validity period of the proposal, i.e., [Date].

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

Commission and gratuities, if any, paid or to be paid by us to agents relating to this proposal and contract execution, if we are awarded the contract, are listed below:

Name and Address of Agents	Amount and Currency	Purpose of Commission or Gratuity
.....
.....

We understand you are not bound to accept any proposal you receive.

We remain,

Yours sincerely,

Managing Director/Head of the firm/Authorised Representative of the firm*

Name of the firm

Address

*Lead Member in case of JV

APPENDIX C-2: SUMMARY OF COSTS**(TO BE UPLOADED SEPARATELY IN ONLINE MODE ONLY)**

No.	Description	Amount (INR)
	Local Consultants	To be uploaded separately in online mode only
I.a	Remuneration for Local Key Professional Staff	
I.b	For Sub Professional	
II	Supporting Staff	
III	Transportation (hiring of Vehicles)	
IV	Duty travel expenses for Key Professionals	
V	Office Rent	
VI	Office Supplies, Utilities and Communication	
VII	Office Furniture and Equipment (A+B)	
VIII	Reports and Document Printing	
IX	Survey Equipment with Survey Party and Vehicle	
X	Contingencies	
	Sub total	
	Consultancy Services Tax Payable in India (GST)	
	Total Cost (Including Tax)	

Note: *Payment will be made as per stipulations of the Conditions of Contract.*

APPENDIX C-3: BREAKDOWN OF MAN MONTHS FOR PROFESSIONAL STAFF**I. LOCAL KEY PROFESSIONALS**

Sl No.	Key personnel	Man-month in Construction period of 36 months*					Man-month in O & M/DLP of 60 months including settlement of	Total Man-Months	
		Bhubaneswar City				Rourkela (East & West)			Sambalpur
		Dist I	Dist II	Dist III	Dist IV				
A. Key Professional									
1	Team Leader-cum-Sewerage Expert	1 x 36					-	36	
2	Deputy Team Leader	1 x 36			1x36		-	72	
3	Construction Manager- 5 Nos	1 x 36	1 x 36	1 x 36		1 x 36	1 x 36	-	180
4	Procurement cum Contract Specialist	1 x 12			1 x 12		-	24	
5	Electrical & Instrumentation Engineer	1 x 24			1 x 12	1 x 12	-	48	
6	Mechanical Engineer	1 x 24			1 x 12	1 x 12	-	48	
7	Structural Engineer	1 x 24			1 x 12	1 x 12	-	48	
8	Process Design/ Schedule Engineer	1 x 24			1 x 24		-	48	
9	Senior Quantity Surveyor	1 x 36			1 x 36		-	72	
B. Sub Professional Staff									
1	Quantity surveyor	1 x 36	1x36	1x36		1x36	1x36	-	180
2.a	Asst. Civil Engineer	1 x 36	1 x 36	2 x 36	1x36	2x36	2x36	-	324
2.b	Asst. Civil Engineer	3 x 30	3 x 30	4 x 30	2x30	4 x 30	3 x 30	-	570
3.	Asst. Electrical & Instrumentation Engineer	1 x 18		1 x 18		1 x 18	1 x 18	-	72
4.	Asst. Mechanical Engineer	1 x 18		1 x 18		1 x 18	1 x 18	-	72
5.	MIS Documentation specialist	1 x 36			1 x 36		-	72	
6.	CADD Engineer	1 x 36			1 x 36		-	72	

II. Support Staff

Sl No.	Position	Staff months				Total Staff months
		Dist I & II	Dist III & IV	Rourkela	Sambalpur	
1	Senior Accountant	1x36				36
2	Junior Accountant	1x36		1x36	1x36	108
3	Junior clerk/Computer Operator	1x36	1x36	1x36	1x36	144
4	Office Assistant/Peon	3x36		2x36	2x36	252
5	Watchman	2x36		2x36	2x36	216

III. Transportation (Fixed rate on rental basis)

The vehicles provided by the Consultants shall include the cost for rental, driver salary, operation, maintenance, repairs, insurance, etc. for all complete approx.2000 km per month run

Sl. No.	Description of Vehicles	Qty. (No. of vehicle-month)					Total
		During Construction Period of 36 months	During Construction Period of 36 months	During Construction Period of 36 months	During Construction Period of 36 months	During operation & maintenance / defect liability of 60 Months	
		Dist I & II	Dist. III & IV	Rourkela	Sambalpur		
1.	Dezire or equivalent (not more than 2 years old)	2 x 36		1 x 36		--	108
2.	Indigo or equivalent (not more than 2 years old)	5 x 36	4 x 36	4 x 36	4 x 36	--	612

Note: The vehicles proposed for the Consultants shall be effectively engaged.

**IV. Duty Travel to OWSSB HO/PD offices/Site offices
(Reimbursable Costs*): Professional Staff**

Sl No.	Trips	Number of Trips
1	From Bhubaneswar to Rourkela & Sambalpur sites (For Team leader)	72 Round trips (by 2 AC/ Deluxe AC Bus)
2	From Sambalpur site to Authority's HQ/Circle office for Deputy Team Leader.	72 Round trips (by 2 AC/ Deluxe AC Bus)
3	From Sambalpur to Rourkela site for Key Professionals (For Dy. Team Leader)	72 Round trips (by 2 AC/ Deluxe AC Bus)
4	From Sambalpur site to Rourkela site for other Key Professionals	72 Round trips (by 2 AC/ Deluxe AC Bus)
5	From Sambalpur Site to Authority's HQ/Circle office for other Key Professionals	144 Round trips (by 2 AC/ Deluxe AC Bus)
6	From Rourkela site to Authority's HQ/Circle office for other Key Professionals	144 Round trips (by 2 AC/ Deluxe AC Bus)

V. Office Rent (Fixed Costs)– Minimum following carpet Area of office shall be rented.

The rent cost includes electricity and water charges, maintenance, cleaning, repairs, etc. complete.

Sl No	Location	Carpet Area	No of Months
1	Bhubaneswar	300 sqm	36
2	Sambalpur	200 sqm	36
3	Rourkela	175 sqm	36

VI. Office Supplies, Utilities and Communication (Fixed Cost)

Sl No	Item	Months						Total Months
		Dist I	Dist II	Dist III	Dist IV	Rourkela	Sambalpur	
1	Office Supplies	36	36	36	36	36	36	216
2	Drafting Supplies Communication	36	36	36	36	36	36	216
3	Computer Running Costs	36	36	36	36	36	36	216
4	Communication	36	36	36	36	36	36	216

VII. Office Furniture and Equipment (Fixed cost- Rental)

(Brand new Furniture and Equipment shall be mandatory at the time of commencement of services as per the list given below. The rental rate per month shall be quoted for the total list of Office Furniture and Equipment.

A. BHUBANESWAR DISTRICT I, II, III & IV

No.	Description	Unit	Qty.		Total	In Months
			Dist I & II	Dist III & IV		
	Office Furniture (Rental/Hire)					
1	Executive Table (Godrej make, model No. S-1071 or equivalent)	Each	4	1	5	4x36+ 1x36 =180
2	Executive Chair (Godrej make, model No. PCH-701 or equivalent)	Each	4	1	5	4x36+ 1x36 =180
3	Table (Godrej make, model No. T-104 or equivalent)	Each	1		1	1x36 =36
			4		4	4x24 =96
			1		1	1x12 =12
4	Ordinary Chair Type-1 (Godrej make, model No. T-CHR-6 or equivalent)	Each	1		1	1x36 =36
			4		4	4x24 =96
			1		1	1x12 =12
5	Tables (for all other staff) (Godrej make, model No. T-101 or equivalent)	Each	6	5	11	6x36+ 5x36 =396
			3	1	4	3x36+ 1x36 =144
			6	6	12	6x30+6x30 =360
			2	2	4	2x18+ 2x18 =72
6a	Ordinary Chairs – Type II (for all other staff) (Godrej make, model No. CHS-6 or equivalent)	Each	9	6	15	9x36+6x36 =540
			6	6	12	6x30+ 6x30 =360
			2	2	4	2x18+ 2x18 =72
b	Additional chairs for visitors		10	10	20	20x36 = 720
7	Steel Almirah 1980mm x 915mm x 485mm (Godrej make, model No. 1 Storewell plain or equivalent)	Each	2	1	3	2x36+ 1x36 =108
8	Steel Almirah 1270mm x 765mm x 440mm (Godrej make, model minor plain or equivalent)	Each	2	1	3	2x36+ 1x36 =108
9	4 Drawer filing cabinet with visa file suspension system (Godrej make, or equivalent)	Each	2	2	4	2x36+ 2x36 =144
10	Conference table with 10 chairs (Godrej make, model No. PCH7002 or equivalent)	set	1			36
11	Tables for computers with 3 drawers, key board/ Mouse pull out trays size 1664mm x 900 (Godrej make or equivalent as per Engineer's design)	Each	4	3	9	4x36+3x36 =252
12	Printer desks (Godrej make or equivalent)	Each	2	2	4	2x36+ 2x36 =144

No.	Description	Unit	Qty.		Total	In Months
			Dist I & II	Dist III & IV		
	Office Equipment (Rental/Hire)					
1	Telephone with PABX facilities (2 external lines & 10 internal lines)	Each	1	-	1	36
2	Photocopier (Big)	Each	1	-	1	36
3	Air-Conditioner (1.5 Ton)	Each	5	3	8	5x36+ 3x36 =288
4	Computer PC (state of the art) Lenovo/HP/Dell- 23.8-inch All-in-One Desktop (Core i5 -6100U processor, 4GB DDR3L RAM, 1TB hard drive, Intel HD graphics, Window 10 Operating System.) with 1500 VA UPS for power back up	Each	5	4	9	5x36+ 4x36 =324
5	Laptop (state of the art) Lenovo/Dell/HP - 15.6 cm (6th Gen Intel Core i5- 8GB RAM-1 TB HDD, Intel HD graphics, Window 10 Operating System.)	Each	5	1	5	5x36+ 1x36 = 216
6	Laser Jet Printers with scanners	Each	2	2	4	2x36+ 2x36 =144
7	Diesel Generator 10 KVA with running cost	Each	1	-	1	36
8	Water Cooler (Voltas or equivalent)	Each	1	-	1	36
9	Software (Anti virus for 3 years)	9	5	4	9	5x3 +4x3=27
10	LCD Projector	1	1	-	1	36
	Total					

B. ROURKELA & SAMBALPUR

No.	Description	Unit	For Rourkela		For Sambalpur		Total
			Qty	Period in Months	Qty	Period in Months	
	Office Furniture (Rental/Hire)						
1	Executive Table (Godrej make, model No. S-1071 or equivalent)	Each	1	36	2	36	108
2	Executive Chair (Godrej make, model No. PCH-7001 or equivalent)	Each	1	36	2	36	108
3	Table (Godrej make, model No. T-104 or equivalent)	Each			1	36	72
			3	12	3	12	72
					1	12	12
					1	24	24
4	Ordinary Chair Type-1 (Godrej make, model No. CH-7B or equivalent)	Each			1	36	72
			3	12	3	12	72
					1	12	12
					1	24	24
5	Tables (for all other staff) (Godrej make, model No. T-101 or equivalent)	Each	4	36	6	36	360
			4	30	3	30	210
			2	18	2	18	72

No.	Description	Unit	For Rourkela		For Sambalpur		Total
			Qty	Period in Months	Qty	Period in Months	
6	Ordinary Chairs – Type II (for all other staff) (Godrej make, model No. CH-6 or equivalent)	Each	4	36	6	36	360
			4	30	3	30	210
			2	18	2	18	72
7	Steel Almirah 1980mm x 915mm x 485mm (Godrej make, model No. 1 Storewell plain or equivalent)	Each	2	36	2	36	144
8	Steel Almirah 1270mm x 765mm x 440mm (Godrej make, model minor plain or equivalent)	Each	2	36	3	36	180
9	4 Drawer filling cabinet with visa file suspension system (Godrej make, or equivalent)	Each	3	36	3	36	216
10	Tables for computers with 3 drawers, key board/ Mouse pull out trays size 1200 x 600 mm (Godrej make or equivalent as per Engineer's design)	Each	3	36	4	36	252
11	Printer desks (Godrej make or equivalent)	Each	2	36	2	36	144
Office Equipment (Rental/Hire)							
1	Telephone with Matrix VISION PRO EPABX 308 (Business PBX) Lines with Caller ID Feature or equivalent (2 external lines & 10 internal lines)	Each	1	36	1	36	72
2	Canon Lasers image CLASS MF 6180w wireless monochrome Printer with Scanner, Copier & Fax or equivalent.	Each	1	36	1	36	72
3	Air-Conditioner - SAMSUNG 1.5 Ton Inverter Split white or equivalent	Each	4	36	4	36	288
4	Computer PC (state of the art)-Lenovo/HP/Dell- 23.8-inch All-in-One Desktop (Core i5 -6100U processor, 4GB DDR3L RAM, 1TB hard drive, Intel HD graphics, Window 10 Operating System.) with 1500 VA UPS for power back up	Each	3	36	6	36	324
5	Lap Top (State of art)-Lenovo/Dell/HP -15.6 cm (6 th Gen Intel Core i5- 8GB RAM-1 TB HDD, Intel HD graphics, Window 10 Operating System.)	Each	1	36	3	36	144
6	HP Laser Jet M1005 Multifunction Printers with scanners or equivalent	Each	2	36	2	36	144
7	Diesel Generator 10 with running cost	Each	1	36	1	36	72
8	Water Coolers, Full stainless steel (Voltas or equivalent) with purification arrangements	Each	1	36	1	36	72

No.	Description	Unit	For Rourkela		For Sambalpur		Total
			Qty	Period in Months	Qty	Period in Months	
9	Software (Anti virus for 3 years)	Each	6	36	7	36	13

VIII. Reports and Document Printing

Sl No	Description	No. of Reports	No. of Copies	Number of copies						Total
				Dist I	Dist II	Dist III	Dist IV	Rourkela	Sambalpur	
1	Monthly reports (Design and Construction)	36	6	216	216	216	216	216	216	1296
2	Quarterly Reports	12	6	72	72	72	72	72	72	432
3	Various others reports as provided in the EPC agreement such as completion Report	7	6	42	42	42	42	42	42	252

IX. Survey Equipment with Survey Party and Vehicle etc., complete (fixed costs)

Description	Nos. of days						Total Nos
	Dist I	Dist II	Dist III	Dist IV	Rourkela	Sambalpur	
Rental cost towards Survey Equipment (GPS/Total station /Auto Level) with semiskilled survey Party (4 persons) and one dedicated vehicle for Survey Party (inclusive of vehicle rental, driver's salary, fuel, operation and maintenance etc. complete) with rods, flags and other sundries	30	30	70	20	60	60	270

X. Contingencies

A fixed number of Indian Rupees TWENTY LAKH (Ten Lakh for Bhubaneswar and Five Lakh each for Rourkela & Sambalpur) shall be included in the Financial Proposal. The provisions of Contingency shall be operated with the specific approval from the Authority.

APPENDIX C-4: BREAK UP OF COSTS IN FOREIGN CURRENCY

DELETED

SECTION 6

TERMS OF REFERENCE FOR AUTHORITY ENGINEER*

[Note: The term “Agreement “and clauses thereof refer to the EPC Agreement dated ----- entered between **Authority** and -----(**the Consultant**) for ----- in the State of Odisha on Engineering, Procurement and Construction (EPC)basis]

1. Scope

1.1 These Terms of Reference (the “**TOR**”) for the Authority’s Engineer are being specified pursuant to the (i) EPC Agreement(s) dated (the “**Agreement**”), which has been entered into between the Authority and (the “**Contractor**”) for “**Construction of Sewerage System of Bhubaneswar City - District I**” (ii) EPC Agreement(s) dated (the “**Agreement**”), which has been entered between the Authority and (the “**Contractor**”) for “**Construction of Sewerage System of Bhubaneswar City - District II**” (iii) EPC Agreement(s) dated (the “**Agreement**”), which has been entered into between the Authority and (the “**Contractor**”) for “**Construction of Sewerage System of Bhubaneswar City - District III**” and EPC Agreement(s) dated (the “**Agreement**”), which has been entered into between the Authority and (the “**Contractor**”) for “**Construction of Sewerage System of Bhubaneswar City - District IV**” (v) EPC Agreement(s) dated (the “**Agreement**”), which has been entered into between the Authority and (the “**Contractor**”) for “**Construction of Sewerage System of Rourkela City (East & west)**” and (vi) EPC Agreement(s) dated (the “**Agreement**”), which has been entered into between the Authority and (the “**Contractor**”) for “**Construction of Sewerage System of Sambalpur Town**” in the State of Odisha on Engineering, Procurement, Construction (EPC) basis, and the copies of which will be furnished as mentioned in Annex-A to form part of this TOR.

1.2 The TOR shall apply to construction of the Sewerage Project only.

2 Definitions and interpretation

2.1 The words and expressions beginning with or in capital letters and not defined herein but defined in the Agreement shall have, unless repugnant to the context, the meaning respectively assigned to them in the Agreement.

2.2 References to Articles, Clauses and Schedules in this TOR shall, except where the context otherwise requires, be deemed to be reference to the Articles, Clauses and Schedules of the Agreement, and references to Paragraphs shall be deemed to be references to Paragraphs of this TOR.

2.3 The rules of interpretation stated in Clauses 1.2, 1.3 and 1.4 of the Agreement shall apply, *mutatis mutandis*, to this TOR.

3 General

3.1 The Authority’s Engineer shall discharge its duties in a fair, impartial and efficient manner, consistent with the highest standards of professional integrity and Good Industry Practice.

- 3.2 The Authority's Engineer shall perform the duties and exercise the Authority in accordance with the provisions of this Agreement, but subject to obtaining prior written approval of the Authority before determining.
- (a) any Time Extension.
 - (b) Any additional cost to be paid by the Authority to the Contractor;
 - (c) The Termination Payment; or
 - (d) Any other matter which is not specified in (a), (b) or (c) above and which creates an obligation or liability on either Party for a sum exceeding Rs. 5,000,000 (Rupees Fifty lakh.)
- 3.3 The Authority's Engineer shall submit regular periodic reports, once every month, and in every quarter to the Authority in respect of its duties and functions under this Agreement. Such reports shall be submitted by the Authority's Engineer within 10 (ten) days of the beginning of every month.
- 3.4 The Authority's Engineer shall inform the Contractor of any delegation of its duties and responsibilities to its suitably qualified and experienced personnel; provided, however, that it shall not delegate the Authority to refer any matter for the Authority's prior approval in accordance with the provisions of Clause 18.2.
- 3.5 The Authority's Engineer shall aid and advise the Authority on any proposal for Change of Scope under Article 13.
- 3.6 In the event of any disagreement between the Parties regarding the meaning, scope and nature of Good Industry Practice, as set forth in any provision of the Agreement, the Authority's Engineer shall specify such meaning, scope and nature by issuing a reasoned written statement relying on good industry practice and authentic literature.

4 Construction Period

- 4.1 During the Construction Period, the Authority's Engineer shall review the Drawings furnished by the Contractor along with supporting data, including the geo-technical and hydrological investigations, characteristics of materials from quarry sites, topographical surveys, and the recommendations of the Safety Consultant in accordance with the provisions of Clause 10.1.6. The Authority's Engineer shall complete such review and send its observations to the Authority and the Contractor within 15 (fifteen) days of receipt of such Drawings; provided, however that in case of a Major Structure, the aforesaid period of 15 (fifteen) days may be extended up to 30 (thirty) days. In particular, such comments shall specify the conformity or otherwise of such Drawings with the Scope of the Project and Specifications and Standards.
- 4.2 The Authority's Engineer shall review any revised Drawings sent to it by the Contractor and furnish its comments within 10 (ten) days of receiving such Drawings.
- 4.3 The Authority's Engineer shall review the Quality Assurance Plan submitted by the Contractor and shall convey its comments to the Contractor within a period of 21 (twenty-one) days stating the modifications, if any, required thereto.
- 4.4 The Authority's Engineer shall complete the review of the methodology proposed to be adopted by the Contractor for executing the Works, and convey its comments to the Contractor within a period of 10 (ten) days from the date of receipt of the proposed methodology from the Contractor.

4.5 Deleted.

- 4.6 The Authority's Engineer shall review the monthly progress report furnished by the Contractor and send its comments thereon to the Authority and the contractor within 7 (seven) days of receipt of such report.
- 4.7 The Authority's Engineer shall inspect the Construction Works of the Project and shall submit a monthly Inspection Report bringing out the results of inspections and the remedial action taken by the Contractor in respect of Defects or deficiencies. In particular, the Authority's Engineer shall include in its Inspection Report, the compliance of the recommendations made by the Safety Consultant.
- 4.8 The Authority's Engineer shall conduct the pre-construction review of manufacturer's reports and standard samples of manufactured Materials, pipes, valves, electrical and mechanical equipments and such other Materials as the Authority's Engineer may require.
- 4.9 For determining that the Works conform to Specifications and Standards, the Authority's Engineer shall require the Contractor to carry out, or cause to be carried out, tests at such time and frequency and in such manner as specified in the Agreement and in accordance with Good Industry Practice for quality assurance. For purposes of this Paragraph 4.9, the tests specified in the relevant I.S. Specification and CPHEEO Manual on Sewerage & Sewage Treatment published by MoUD, GoI or any modifications/substitution thereof shall be deemed to be tested conforming to Good Industry Practice for quality assurance.
- 4.10 The Authority's Engineer shall check all the tests prescribed for each category or type of test for quality control by the Contractor.
- 4.11 The timing of tests referred to in Paragraph 4.9, and the criteria for acceptance/rejection of their results shall be determined by the Authority's Engineer in accordance with the Quality Control Manuals and as per relevant IS codes. The tests shall be undertaken as per relevant IS codes and manuals on a random sample basis and shall be in addition to, and independent of, the tests that may be carried out by the Contractor for its own quality assurance in accordance with Good Industry Practice.
- 4.12 In the event that results of any tests conducted under Clause 11.10 of EPC contract establish any Defects or deficiencies in the Works, the Authority's Engineer shall require the Contractor to carry out suitable remedial measures.
- 4.13 The Authority's Engineer may instruct the Contractor to execute any work which is urgently required for the safety of the Project, whether because of an accident, unforeseeable event or otherwise; provided that in case of any work required on account of a Force Majeure Event, the provisions of Clause 21.6 of EPC contract shall apply.
- 4.14 In the event that the Contractor fails to achieve any of the Project Milestones, the Authority's Engineer shall undertake a review of the progress of construction and identify potential delays, if any. If the Authority's Engineer shall determine that completion of the Project is not feasible within the time specified in the Agreement, it shall require the Contractor to indicate within 15 (fifteen) days the steps proposed to be taken to expedite progress, and the period within which the Project Completion Date shall be achieved. Upon receipt of a report from the Contractor, the Authority's Engineer shall review the same and send its comments to the Authority and the Contractor forthwith.

- 4.15 The Authority's Engineer shall obtain from the Contractor a copy of all the Contractor's quality control records and documents before the Completion Certificate is issued pursuant to Clause 12.4 of EPC contract.
- 4.16 Authority's Engineer may recommend to the Authority suspension of the whole or part of the Works if the work threatens the safety of the Users. After the Contractor has carried out remedial measure, the Authority's Engineer shall inspect such remedial measures forthwith and make a report to the Authority recommending whether or not the suspension hereunder may be revoked.
- 4.17 In the event that the Contractor carries out any remedial measures to secure the safety of suspended works and users, and requires the Authority's Engineer to inspect such works, the Authority's Engineer shall inspect the suspended works within 3 (three) days of receiving such notice, and make a report to the Authority forthwith, recommending whether or not such suspension may be revoked by the Authority.
- 4.18 The Authority's Engineer shall carry out, or cause to be carried out, all the Tests specified in Schedule-K and issue a Completion Certificate or Provisional Certificate as the case may be. For carrying out its functions under this Paragraph 4.18 and all matters incidental thereto, the Authority's Engineer shall act under and in accordance with the provisions of Article 12 and Schedule-K.

4.19

5 Operation & Maintenance Period

- 5.1 Deleted.
- 5.2 Deleted.
- 5.3 Deleted.
- 5.4 Deleted.
- 5.5 Deleted.

6 Determination of costs and time

- 6.1 The Authority's Engineer shall determine the costs, and/or their reasonableness, that are required to be determined by it under the Agreement.
- 6.2 The Authority's Engineer shall determine the period of Time Extension that is required to be determined by it under the Agreement.
- 6.3 The Authority's Engineer shall consult each Party in every case of determination in accordance with the provisions of Clause 18.5 of EPC contract.

7 Payments

- 7.1 The Authority's Engineer shall recommend for withholding payments for the affected works for which the Contractor fails to revise and resubmit the Drawings to the Authority's Engineer in accordance with the provision of Clause 10.2.4 (d) of EPC Contract.
- 7.2 Authority's Engineer shall within 10 (ten) days of receipt of the Stage Payment Statement

- 7.3 from the Contractor pursuant to Clause 19.4, of EPC Contract..
- a) determine the amount due to the Contractor and recommend the release of 90 (ninty) percent of the amount so determined as part payment, pending issue of the Interim Payment Certificate; and
 - b) within 15 (fifteen) days of the receipt of the Stage Payment Statement referred to in Clause 19.4, of EPC Contract.
deliver to the Authority and the Contractor an Interim Payment Certificate certifying the amount due and payable to the Contractor, after adjustments in accordance with the provisions of Clause 19.10.

7.3.1 Deleted.

7.3 Deleted.

8 Other duties and functions

The Authority's Engineer shall perform all other duties and functions as specified in the Agreement.

9. Miscellaneous

- 9.1 A copy of all communications, comments, instructions, Drawings or Documents sent by the Authority's Engineer to the Contractor pursuant to this TOR, and a copy of all the test results with comments of the Authority's Engineer thereon, shall be furnished by the Authority's Engineer to the Authority forthwith.
- 9.2 The Authority's Engineer shall retain at least one copy each of all Drawings and Documents received by it, including 'as – built' Drawings and keep them in its safe custody.
- 9.3 Within 90 (ninety) days of the Project Completion Date, the Authority's Engineer shall obtain a complete set of as built Drawings in 2 (two) hard copies and in micro film form or in such other medium as may be acceptable to the Authority, reflecting the Sewerage Project as actually designed, engineered and constructed, including an as-built survey illustrating the layout of the Project and setback lines, if any, of the buildings and structures forming part of project Facilities; and shall hand over them to the Authority against receipt thereof.
- 9.4 The Authority's Engineer, if called upon by the Authority or the Contractor or both, shall mediate and assist the Parties in arriving at an amicable settlement of any Dispute between the Parties.
- 9.5 The Authority's Engineer shall inform the Authority and the Contractor of any event of Contractor's Default within one week of its occurrence.
- 9.6 Adjustment with respect to the estimated periods of engagement of Key Personnel set forth in Appendix C-3 may be made by the Consultants by written notice to the Employer, provided that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GC 6.1(b) of this Contract. Any other such adjustments shall only be made with the Employer's written approval.

10. PERFORMANCE CLAUSE

Authority's Engineers shall be expected to fully comply with all the provisions of the 'Terms of Reference', and shall be fully responsible for supervising the Designs, Construction of the facility takes place in accordance with the provisions of the Concession Agreement and other schedules. Any failure of the Authority's Engineer in notifying to Authority and the Contractor on non-compliance of the provisions of the EPC Contract Agreement and other schedules by the EPC Contractor, non-adherence to the provision of ToR and non-adherence to the time schedule prescribed under ToR shall amount to non-performance.

The Authority's Engineer shall appoint its authorized representative, who shall issue on behalf of the AE, the Provisional Completion Certification and Completion Certificate along with the Team Leader and shall carry out any such task as may be decided by Authority. The AE shall take prior approval of Authority before issuing Provisional Completion Certification and Completion Certificate. The proposal submitted shall also include the name of the authorized representative along with the authorization letter and power of attorney.

11. CONSULTANT'S PROPOSAL

11.1 List of key personnel to be fielded by the Consultants shall be as below:

- i. Team Leader-cum-Sewerage Expert - 1 No
- ii. Deputy Team Leader - 2 Nos
- iii. Construction Manager - 5 Nos
- iv. Procurement cum Contract Specialist - 2 Nos
- v. Electrical & Instrumentation Engineer - 3 Nos
- vi. Mechanical Engineer - 3 Nos
- vii. Structural Engineer - 3 Nos
- viii. Process Design/ Schedule Engineer - 2 Nos
- ix. Senior Quantity Surveyor - 2 Nos

11.2 Broad job-description and minimum qualification for key personnel mentioned above is enclosed as **Enclosure-B**. However, higher marks shall be accorded to the Candidate with higher relevant qualification and experience. The Consultant should feel free to submit their proposal on the basis of the man-months which they consider to be necessary to undertake the assignment. All the CVs of the personals mentioned in Para 5.3 (iii) of Data Sheet shall be evaluated at the time of evaluation of technical proposal. **The age of the Key Personnel should not be more than 65 years on the date of submission of proposal.** Consultants are advised in their own interest to frame the technical proposal in an objective manner as far as possible so that these could be properly assessed in respect of points to be given as part of evaluation criteria. The bio-data of the key personnel should be signed on every sheet by the personnel concerned and the last sheet of each bio-data should also be signed by the authorised signatory for the Consultant. The key personnel shall also certify at the end of their bio-data proforma that they have not left any of the AUTHORITY works without completing of their assignment and have not accepted any other offer at the time of signing of the bio-data and as such shall be available to work with the Authority Engineer, if the Project is awarded. In case the key personnel leaves the assignment without approval of Authority, Authority would be at liberty to take any

appropriate action against that key personnel including debarment.

- 11.3 In addition to above, consultants are required to propose other Sub- professional staff ,field engineers as detailed in **Enclosure-A** and the minimum qualification requirements for the same is enclosed in **Enclosure-B**.

12. PERIOD OF SERVICES

12.1 The services of an Authority’s Engineer will be as per Contract Agreement.

12.1.1 The appointment of the Authority’s Engineer shall initially be as per details given below.

Period of service (in months)	Construction period (in months)	Operation & Maintenance/DLP including Settlement of Contractor’s bill (in months)
36	36	0

The proposed manpower deployment for this period shall be matching the activities to be performed during the said period. The time frame for services during the deployment of key personnel during this period shall be as shown in **Enclosure A**.

13. PERFORMANCE SECURITY

The successful consulting firm shall have to submit a Bank Guarantee (BG) for an amount of 2.50% of the Contract Value within 15 days of issue of LOA. The BG shall be valid for a period of 2 months beyond the expiry of the Contract period. The BG shall be in the format specified in Appendix I of draft contract form and furnished from a Nationalised/Scheduled Bank of India, Counter Guaranteed in its branch at Bhubaneswar. In case of JV, the BG shall be furnished on behalf of the JV and not individually by the members.

Enclosure-A-1

***MAN – MONTHS INPUT FOR KEY PROFESSIONAL STAFF OF
AUTHORITY'S ENGINEER**

Sl. No.	Key Personnel	Man -month in Construction period of 36 months						Man-month in O & M/ DLP including settlement of contractor's bill	Total Man months
		Bhubaneswar City				samba lpur	Rourlke la		
		Dist I	Dist II	Dist III	Dist IV				
A: Key Professional									
1	Team Leader-cum-Sewerage Expert	1 x 36						--	36
2	Deputy Team leader	1 x 36				1 x 36		--	72
2.	Construction Manager	1 x 36	1 x 36	1 x 36		1 x 36	1 x 36	--	180
3.	Procurement cum Contract Specialist	1x12				1 x 12		--	24
4.	Electrical & Instrumentation Engineer	1 x 24				1 x 12	1 x 12	--	48
5.	Mechanical Engineer	1 x 24				1 x 12	1 x 12	--	48
6.	Structural Engineer	1 x 24				1 x 12	1 x 12	--	48
7.	Process Design/ Schedule Engineer	1 x 24				1 x 24		--	48
8.	Senior Quantity Surveyor	1 x 36				1 x 36		--	72
B: Sub Professional									
1	Quantity Surveyor	1 x 36	1 x 36	1 x 36		1 x 36	1 x 36	---	180
2.a	Asst. Civil Engineer	1x 36	1 x 36	2 x 36	1 x 36	2 x 36	2 x 36	--	324
2 b	Asst. Civil Engineer	3x 30	3x30	4x30	2x 30	4x30	3x30	--	570
3.	Asst. Electrical & Instrumentation Engineer	1 x 18		1x18		1x18	1x18	--	72
4.	Asst. Mechanical Engineer	1 x 18		1x18		1x18	1x18	--	72
5.	MIS Documentation Specialist	1 x 36				1 x 36		--	72
6.	CADD Engineer	1 x 36				1 x 36		--	72

Enclosure B**QUALIFICATION OF KEY PERSONNEL****TEAM LEADER-CUM-SEWERAGE EXPERT – 1 No**

Duties: The Team Leader will reside at project site on a full time basis throughout the period of the construction supervision services. He will be overall in-charge of the project supervision of the construction package. He shall act as Representative of the consulting firm appointed by the Authority. His duties will involve overall superintendence over the Construction Manager and other experts of the construction package. He will guide, monitor, supervise and control all the activities related to supervision for the construction package. He will interact with the Project Director and the other officials of the Authority.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Civil Engineering from recognized university/ Equivalent Qualification. (20 Marks)
- (b) Total Professional Experience of 15 years in handling Water Supply/Sewerage project. (Maximum 15 Marks)
 - Less than 15 Years = 0 Marks
 - 15 Years = 10 Marks
 - Add 1 Mark for each additional year beyond 15 years up to 20 years.
- (c) At least 5 years' experience as Resident Engineer/Project Manager or equivalent in Water Supply/Sewerage project during construction period. (Maximum 15 Marks).
 - Less than 5 Years = 0
 - 5 Years = 10 Marks
 - Add 2.5 Marks for each additional year beyond 5 years up to 7 years..
- (d) Team Leader/Resident Engineer/Project Manager or similar capacity of at least two projects in Construction Supervision of Water Supply/Sewerage project. (Maximum 20 Marks)
 - 1 sewerage project = 10 Marks
 - Additional 1 Water supply/Sewerage project = 10 marks
- (e) Team Leader or similar capacity of at least one Project for preparation of Sewerage Project involving at least one 28 MLD capacity STP. (10 Marks)
- (f) Not more than 65 years of age.

(2) Preferential Qualifications.

- (a) Post Graduate Degree in P.H. / Environmental Engineering from recognised University. (5 Marks)
- (b) Experience in supervision of Sewerage Project. (5 marks).

Note: (1) Similar Capacity includes the following positions

- i) On behalf of Consultant: Team Leader / Resident Engineer (Construction Supervision/IE).
- ii) On behalf of Contractor: Project Manager (Construction/ Construction Supervision)

iii) In Government Organizations: Superintending Engineer (or equivalent) and above

- (3) Only those projects will be considered for evaluation at Sl. No. 1(c) and 1(d) above, where the input of the personnel is at least one year.

DEPUTY TEAM LEADER – 2 Nos

Duties: The Deputy Team Leader will reside at project sites (Bhubaneswar and Sambalpur) on a full time basis throughout the period of the construction supervision services. He will be in-charge of the project supervision of the construction packages. He will be reporting to the Team leader. His duties will involve overall superintendence over the Construction Manager and other experts of the construction package. He will guide, monitor, supervise and control all the activities related to supervision for the construction package. He will also interact with the Project Director and the other officials of the Authority.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Civil Engineering from recognized university/ Equivalent Qualification. (20 Marks).
 (b) Total Professional Experience of 12 years in handling Water supply/Sewerage project.
 (Maximum 15 Marks)
 Less than 7 Years = 0
 12 Years = 10 Marks
 Add 1 Mark for each additional year beyond 12 years up to 17 years.
 (c) At least 3 years' experience as Resident Engineer/Assistant Resident Engineer/ Project Director / Project Manager/ Superintending Engineer/ Executive Engineer on similar construction WSS/Sewerage work. (Maximum 20 marks)
 Less than 3 Years = 0
 3 Years = 15 Marks
 Add 2.50 Marks for each additional year beyond 3 years up to 5 years.
 (d) Resident Engineer/Project Manager or similar capacity of at least two projects in Construction Supervision of WS/Sew project. (Maximum 15 Marks)
 1 sewerage project = 10 Marks
 Additional 1 Water supply/sewerage project = 5 marks
 (e) Should have handled at least 2 Water Supply /Sewerage projects. (Maximum 10 Marks)
 1 Sewerage Project = 5 Marks
 Additional 1 Water supply/sewerage project = 5 marks
 (f) Not more than 65 years of age.

2) Preferential Qualifications.

- (a) Post Graduate Degree in P.H. / Environmental Engineering from a recognised University. (5 Marks).
 (b) Experience in supervision of additional Sewerage Projects. (5 marks)

CONSTRUCTION MANAGER - 3 Nos

Duties: He will be responsible for supervising all the civil construction works and tests to be done in different stages of construction including testing to be conducted for different types of pipes, besides ensuring that specified tests are done as per codal stipulations and as per the specifications laid down in the contract for all the different stages of construction. He will be coordinating and controlling the support personnel placed with him and will report to the Team Leader/ Employer's representative as and when required.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Civil Engineering from recognized university/ Equivalent Qualification. (20 Marks)
- (b) Total Professional Experience of 10 years in handling WS/Sewerage project. (Maximum 15 Marks)
 - Less than 10 Years = 0
 - 10 Years = 10 Marks
 - Add 1 Mark extra for each additional year beyond 10 years up to 12 years. .
- (c) At least 5 years' experience as Resident Engineer/Assistant Resident Engineer/ Project Director/ Project Manager/ Superintending Engineer/ Executive Engineer on similar construction (WSS/Sewerage) work. (Maximum 25 marks)
 - Less than 5 Years = 0
 - 5 Years = 20 Marks
 - Add 2.5 Mark for each additional year beyond 5 years and up to 7 years.
- (d) Should have handled at least 2 Water Supply /Sewerage projects. (Maximum 20 Marks)
 - 1 Sewerage Project = 10 Marks
 - Additional 1 Water supply/sewerage project = 10 marks
- (e) Not more than 65 years of age.

2) Preferential Qualifications.

- (a) Post Graduate Degree in P.H. / Environmental Engineering from a recognised University. (5 Marks).
- (b) Experience as Material / Geotechnical Engineer in Construction/ Construction Supervision of at least 1 Sewerage project. Must be familiar with material property of pipe material, construction material, mechanical & electrical equipments, technical specifications and procedures of material tests and testing equipments (5 Marks)..

PROCUREMENT-CUM-CONTRACT SPECIALIST

Duties: He will be deployed in working season in stages for cumulative duration of period as per RFP for obtaining his expert opinion on emerging contractual issues. His key responsibilities will be to guide and assist Team Leader/ Employer in all aspects of contract management in proper implementation of contractual provisions including cost control. He will also be required to offer his advice on contractual complications arising during the implementation as per the request of the employer. He will be required to prepare manuals/ schedules for the consultant's team/ employer based on the provisions of the contract document. He will be responsible for giving appropriate suggestions in handling claims of the contractors and any dispute arising thereof.

i. Essential Qualification

- (a) Graduate in Civil Engineering from recognized university/ Equivalent Qualification. (20 Marks)
- (b) Total Professional Experience of 10 years in Contract Management. (Maximum 15 Marks)
 - Less than 10 Years = 0 Marks
 - 10 Years = 10 Marks
 - Add 2.5 Marks for each additional year beyond 10 years up to 12 years.
- (c) Experience of at least 5 years as contact specialist on any Water Supply /Sewerage project (Maximum 25 Marks).
 - Less than 5 Years = 0 Marks
 - 5 Years = 20 Marks
 - Add 2.5 Marks for one additional year beyond 5 years and up to 7 years.
- (d) Contract Management of a Water Supply / Sewerage project having value over Rs.20 Crore including experience of handling variation orders, claims of the contractor. (Maximum 20 Marks)
 - 1 Sewerage Project = 10 Marks
 - Additional 1 Water supply/sewerage project = 10 marks.
- (e) Not more than 65 years of age

ii. Preferential Qualifications:

- a) Degree in Law / P.G. Management. from a recognised University. (5 Marks)
- b) Handled Arbitration cases in respect of any Water Supply/ Sewerage Project. (5 Marks)t.

ELECTRICAL & INSTRUMENTATION ENGINEER

Duties: He will be responsible for supervising all the Electrical & Instrumentation works and tests to be done in different stages of construction of STP and pumping stations besides ensuring that specified tests are done as per codal stipulations and as per the specifications laid down in the contract for all the different stages of construction. He will be coordinating and controlling the support personnel placed with him and will report to the Team Leader/ Employer's representative as and when required. Must be familiar with material property of electrical & instrumentation equipments, technical specifications and procedures of material tests and testing equipments.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Electrical Engineering/ Electrical & Electronics Engineering from a recognized university/ equivalent Qualification. (20 Marks)
- (b) Total Professional Experience of 10 years in handling construction/supervision of Engineering Projects. (Maximum 20 Marks)
 - Less than 10 Years = 0 Marks
 - 10 Years = 15 Marks
 - Add 1 Mark for each additional year beyond 10 years and up to 15 years.
- (c) Experience as Sewage Treatment Plants/ Sewage Pumping Stations in construction/ Construction Supervision of at least 2 water supply/Sewerage project. (Maximum 20 Marks)
 - 1 Sewerage project = 10 marks
 - 1 additional Water supply/sewerage project = 10 marks.
- (d) Professional Experience of handling Automation of two Water Supply /Sewerage Project. (Maximum 20 Marks)
 - 1 project = 15 marks
 - Additional 1 project = 5 marks
- (e) Not more than 65 years of age.

2) Preferential Qualifications.

- (a) Post Graduate Degree in Electrical Engineering/ Electrical & Electronics Engineering from a recognised University. (5 Marks).
 (b) Experience as Electrical & Instrumentation Engineer in Sewerage Construction projects.

MECHANICAL ENGINEER

Duties: He will be responsible for supervising all the Mechanical & Piping works and tests to be done in different stages of construction of STP and pumping stations besides ensuring that specified tests are done as per codal stipulations and as per the specifications laid down in the contract. He will be coordinating and controlling the support personnel placed with him and will report to the Team Leader/ Employer's representative as and when required.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Mechanical Engineering from recognized university / equivalent Qualification. (20 Marks).
 (b) Total Professional Experience of 10 years in handling construction/supervision of Engineering Projects. (Maximum 20 Marks)
 Less than 10 Years = 0 Marks
 10 Years = 15 Marks
 Add 1 Mark for each additional year beyond 10 years and up to 15 years.
 (c) Experience as Sewage Treatment Plants/ Sewage Pumping Stations in construction/ Construction Supervision of at least 2 water supply/Sewerage project. (Maximum 20 Marks)
 1 sewerage project = 10 marks
 Additional 1 water supply/sewerage project = 10 marks
 (d) Experience of 3 years in Construction / Construction Supervision of Sewerage/water supply projects. (Maximum 20 Marks)
 Less than 3 Year = 0 Marks
 3 Years = 15 Marks
 Add 1 Mark for each additional year beyond 3 years and up to 8 years.
 (e) Not more than 65 years of age.

2) Preferential Qualifications.

- (a) Post Graduate Degree in allied Mechanical Engineering from a recognised University (5 Marks).
 (b) Must be familiar with material property of mechanical equipments & pipe appurtenances, technical specifications and procedures of material tests and testing equipments. Experience as Mechanical Engineer in Sewerage Construction projects(5 Marks).

STRUCTURAL ENGINEER

Duties: His duties will involve understanding the design provisions of structures relating to sewerage project such as Sewer Appurtenances, Sewage Pumping stations(SPS), Sewage Treatment Plant(STP) etc. guiding and checking of design and reinforcement, rectifying any apparent mistakes in respect of them, checking and controlling the proper mix designs, checking the adequacy of proper form-work, laying/compacting of concrete including curing operations. For this purpose, he will work in close coordination with the Material Engineer and the Contractor's Expert to effectively control the quality of execution. He will be responsible for minor modifications in designs of different structures, whenever required during execution.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Civil Engineering from recognized university/ Equivalent Qualification. (20 Marks)
- (b) Professional Experience of 10 years. (Maximum 20 Marks).
 - Less than 10 Years = 0 Marks
 - 10 Years = 15 Marks
 - Add 1 Mark for each additional year beyond 10 years and up to 15 years.
- (c) 5 years' experience in Construction / Construction Supervision of RCC water retaining structure / any other RCC WTP/ ESR & GSR structures. (Maximum 20 Marks)
 - Less than 5 Years = 0 Marks
 - 5 Years = 20 Marks
- (d) Must be familiar with modern methods of construction of involving RCC, design standards, technical specifications and statistical Quality Control/Assurance procedures for construction of different RCC water retaining structures and experience in Supervision/Design of one/two WTP / STP. (Maximum 20 Marks)
 - 1 Project = 15 Marks
 - Add 5 Mark for one additional project
- (f) Not more than 65 years of age.

2) Preferential Qualifications.

- (a) Post Graduate Degree Structural Engineering from a recognised University (5 Marks).
- (b) Experience as a Structural Engineer from a reputed construction firm (5 Marks).

PROCESS DESIGN/ SCHEDULE ENGINEER

Duties: He will be responsible for examining the process and hydraulic designs submitted by the contractors and recommend for approval by the employer. He will be coordinating and controlling the support personnel placed with him and will report to the Team Leader/ Employer's representative as and when required.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Civil/Environmental/Chemical Engineering from a recognized University / Equivalent Qualification. (20 Marks)
- (b) Professional Experience of 10 years in construction of Projects. (Maximum 20 Marks)
 - Less than 10 Years = 15 Marks
 - 10 Years = 15 Marks
 - Add 1 Mark for each additional year beyond 10 years and up to 15 years.
- (c) Experience of 5 years in Sewerage/water supply projects. (Maximum 20 Marks)
 - 5 Years = 15 Marks
 - Add 1 Mark for each additional year beyond 5 years and up to 10 years
- (d) Experience in Process & Hydraulic design of at least 1 Sewerage project. (20 Marks).
- (e) Not more than 65 years of age.

2) Preferential Qualifications.

- (a) Post Graduate Degree in P.H./ Environmental Engineering from a recognised University (5 Marks).
- (b) Experience as Process Engineer in more Sewerage Construction projects (5 Marks).

SENIOR QUANTITY SURVEYOR

Duties: He will be reporting to the Team Leader and Construction Manager and give input as and when required during the work. He will act as a contract specialist also for the construction package, even though the thrust of his responsibilities will be in the areas of quantity surveying/ processing of the invoices etc. He will be responsible for taking all measures required to control the project cost and time over-runs. He will examine the claims of the contractor, variation orders, if any, and will approve the progress reports as per the project requirements. He will approve the measurement of all items of works executed in different stages for payment purpose prepared by the Quantity Surveyor.

He should have the following qualification / experience.

(1) Essential Qualifications.

- (a) Graduate in Civil Engineering from recognized university/ Equivalent Qualification. (20 Marks).
- (b) Total Professional Experience of 10 years in handling Water Supply /Sewerage/ Construction Project. (Maximum 15 Marks)
 - Less than 10 Years = 0 Marks
 - 10 Years = 10 Marks
 - Add 1 Mark for each additional year beyond 10 years and up to 15 years.
- (c) At least 5 years' experience as Quantity Surveyor in Water Supply /Sewerage/ Construction Project. (Maximum 25 Marks)
 - Less than 5 Years = 20 Marks
 - Add 2.5 Mark for each additional year beyond 5 years and up to 7 years.
- (d) He should have handled as Quantity Surveyor in at least two projects in Construction Supervision of WS/Sewerage project. (Maximum 20 Marks)
 - 1 Sewerage Project = 10 Marks
 - Additional 1 Water supply/sewerage project = 10 marks.
- (e) Not more than 65 years of age.

(2) Preferential Qualifications.

- (a) Post Graduate Degree in Construction Management/Engineering from a recognized university (5 Marks).
- (b) Handled final bill preparation of any Water Supply/ Sewerage Project (5 Marks).

SUB PROFESSIONAL (To be evaluated for their suitability by the EE and SE concerned before deployment)**A. QUANTITY SURVEYOR**

Duties: He will be reporting to the Senior quantity surveyor and Construction Manager and give input as and when required during the work. He will act as a contract specialist also for the construction package, even though the thrust of his responsibilities will be in the areas of quantity surveying/ processing of the invoices etc. He will be responsible for taking all measures required to control the project cost and time over-runs. He will examine the claims of the contractor, variation orders, if any, and will approve the progress reports as per the project requirements. He will approve the measurement of all items of works executed in different stages for payment purpose .

He should have the following qualification / experience.

- (a) Graduate in Civil Engineering from recognized university / equivalent Qualification.
- (b) Total Professional Experience of 5 years in handling Construction Project.
- (c) At least 3 years experience as Quantity Surveyor in Water Supply/Sewerage/ Project.
- (d) He should have handled as Quantity Surveyor at least in one sewerage construction project.
- (e) Not more than 60 years of age.

B. Asst. Civil Engineer

Duties: He will be reporting to the Construction Manager and assisting Quantity Surveyor in monitoring and process control for all the activities related to the sewerage project. His main area of working will be focused to the process control pertaining to sewerage project. In addition to this, he will be assisting the Structural/ Mechanical/ Electrical/Process Engineer in all aspects of project management.

He should also be well-versed with survey equipments and computer applications including the knowledge of using software to help the key experts in understanding the design, extracting the details from the design and doing minor modification in the designs as and when required.

Qualifications and Experience: He will be a Civil Engineering graduate with minimum 3 years' experience or Civil Engineering Diploma holder with minimum 6 years' experience in Construction Supervision of Water Supply/ Sewerage project. He should have worked as P.H. Engineer/Asst. P.H. Engineer/ Dy. Resident Engineer for at least 3 years on any Water Supply / Sewerage Projects. Experience in Water Supply/Sewerage Project construction for the candidate proposed would be required. He should not be more than 60 years of age.

C. Asst. Electrical & Instrumentation Engineer

Duties: He will be reporting and assisting the Electrical & Instrumentation Engineer in monitoring and process control for all the activities related to the sewerage project. His main area of working will be focused to the process control pertaining to STP & pumping stations of the sewerage project. In addition to this, he will be assisting the Construction Manager in all aspects of project management.

He should also be well-versed with electrical & instrumentation equipments and computer applications including the knowledge of using software to help the key experts in understanding the design, extracting the details from the design and doing minor modification in the designs as and when required.

Qualifications and Experience: He will be an Electrical/ Instrumentation Engineering graduate with minimum 3 years' experience or an Electrical Engineering Diploma holder with minimum 6 years' experience in Supervision of electrical & instrumentation work of Water Supply/ Sewerage/Construction project. He should have worked as Electrical/ Electrical & Instrumentation Engineer/Asst. Engineer/ Dy. Resident Engineer for at least 3 years on any Water Supply / Sewerage/Construction Projects. Experience in Water Supply/Sewerage Project for the candidate proposed would be preferable. He should not be more than 60 years of age.

D. Asst. Mechanical Engineer

Duties: He will be reporting and assisting the Mechanical Engineer in monitoring and process control for all the activities related to the sewerage project. His main area of working will be focused to the process control pertaining to piping & mechanical equipments of STP & pumping stations of the sewerage project. In addition to this, he will be assisting the Mechanical Engineer in all aspects of project management.

He should also be well-versed with Mechanical equipments and computer applications including the knowledge of using software to help the key experts in understanding the design, extracting the details from the design and doing minor modification in the designs as and when required.

Qualifications and Experience: He will be a Mechanical Engineering graduate with minimum 3 years' experience or a Mechanical Engineering Diploma holder with minimum 6 years' experience in Supervision of mechanical work of Water Supply/ Sewerage/Construction Project. He should have worked as Mechanical Engineer/ Asst. Engineer/ Dy. Resident Engineer for at least 3 years on any Water Supply / Sewerage /Construction Projects. Experience in Water Supply/Sewerage Project for the candidate proposed would be preferable. He should not be more than 60 years of age.

E. CADD Engineer.

Duties: He shall be assisting the Team Leader and Construction Engineer and will be placed in the Consultant's main office. He is proposed to be deployed to assist the Team Leader in discharging all his day to day functions. The main responsibilities include modification in structural designs and drawings pertaining to sewerage project as required during the execution of works, besides discharging any other work assigned to him by Team Leader. Such modification will be required to be done on relevant software.

Qualification and Experience: He should be a Civil Engineering Graduate with at least 5 years' experience. He should be fully conversant with structural design using CADD etc. His demonstrated proficiency in use of computer will be an added qualification. He must have handled structural design using relevant software.

MIS Documentation Specialist:

Duties: He shall be assisting the Team Leader and Construction Manager and will be placed in the Consultant's main office. The main responsibilities include keeping project information in a systematic manner and prepare all reports as per the project requirement besides discharging any other work assigned to him by Team Leader.

Qualification and Experience: He should be Master degree in Computer Applications (MCA) or Engineering Graduate in Computer Science with at least 5 years' experience. He should be fully conversant with preparation of all documents and maintaining data.

SECTION 7: DRAFT FORM OF CONTRACT

Note: This draft Agreement is a generic document and shall be modified based on particulars of the EPC Project.

CONTRACT FOR AUTHORITY'S ENGINEER'S SERVICES

Between

(Name of Client)

And

(Name of Consultant)

Dated:

CONTENTS

Page No.

I.	FORM OF CONTRACT	
II	GENERAL CONDITIONS OF CONTRACT	
	1. General Provisions	
	1.1 Definitions	
	1.2 Relation between the Parties	
	1.3 Law Governing the Contract	
	1.4 Language	
	1.5 Headings	
	1.6 Notices	
	1.7 Location	
	1.8 Authority of Member in charge	
	1.9 Authorized Representatives	
	1.10 Taxes and Duties	
	2. Commencement, Completion, Modification, and Termination of Contract.....	
	2.1 Effectiveness of Contract	
	2.2 Termination of Contract for Failure to Become Effective	
	2.3 Commencement of Services	
	2.4 Expiration of Contract	
	2.5 Entire Agreement	
	2.6 Modification	
	2.7 Force Majeure	
	2.7.1 Definition	
	2.7.2 No Breach of Contract	
	2.7.3 Measures to be taken	
	2.7.4 Extension of Time	
	2.7.5 Payments	
	2.7.6 Consultation	
	2.8 Suspension	
	2.9 Termination	
	2.9.1 By the Client	
	2.9.2 By the Consultants	
	2.9.3 Cessation of Rights and Obligations	
	2.9.4 Cessation of Services	
	2.9.5 Payment upon Termination	
	2.9.6 Disputes about Events of Termination	
3.	Obligations of the Consultants	

- 3.1 General
 - 3.1.1 Standard of Performance
 - 3.1.2 Law Governing Services
- 3.2 Conflict of Interests
- 3.2.1 Consultants not to Benefit from Commissions, Discounts, etc.
- 3.2.2 Procurement Rules of Funding Agencies
- 3.2.3 Consultants and Affiliates Not to Engage in certain Activities
- 3.2.4 Prohibition of Conflicting Activities ...
- 3.3 Confidentiality
- 3.4 Liability of the Consultants
- 3.5 Insurance to be Taken out by the Consultants ...
- 3.6 Accounting, Inspection and Auditing
- 3.7 Consultant's Actions requiring Client's prior Approval
- 3.8 Reporting Obligations
- 3.9 Documents prepared by the Consultants
- To Be the Property of the Client
- 3.10 Equipment and Materials Furnished by the Client
- 4. Consultants' Personnel and Sub-consultants
- 4.1 General
- 4.2 Description of Personnel
- 4.3 Approval of Personnel
- 4.4 Working Hours, Overtime, Leave etc.
- 4.5 Removal and /or Replacement of Personnel
- 4.6 Resident Project Manager
- 5. Obligations of the Client
- 5.1 Assistance and Exemptions
- 5.2 Access to Land
- 5.3 Change in the Applicable Law
- 5.4 Services, Facilities and Property of the Client
- 5.5 Payment
- 5.6 Counterpart Personnel
- 6. Payments to the Consultants
- 6.1 Cost Estimates, Ceiling Amount
- 6.2 Remuneration and Reimbursable Expenditures...
- 6.3 Currency of Payment
- 6.4 Mode of Billing and Payment
- 7. Fairness and Good Faith

	7.1	Good Faith
	7.2	Operation of the Contract
8.	8.1	Amicable Settlement
	8.2	Dispute Settlement
III		SPECIAL CONDITIONS OF CONTRACT

IV		<u>APPENDICES</u>	<u>Page No.</u>
	Appendix A	: Description of the Services	
	Appendix B	: Reporting Requirements	
	Appendix C	: Key Personnel and Sub-consultants	
	Appendix D	: Medical Certificate	
	Appendix E	: Hours of Work for Key Personnel	
	Appendix F	: Duties of the Client	
	Appendix G	: Cost Estimates in Foreign Currency	
	Appendix H	: Cost Estimates in Local Currency	
	Appendix I	: Form of Performance Bank Guarantee	
	Appendix J	: Form of Bank Guarantee for Advance Payments	
	Appendix K	: Letter of invitation	
	Appendix L	: Letter of Award	
	Appendix M	: Minutes of pre-bid meeting	
	Appendix-N	: Memorandum of Understanding (in case of JV)	
V		ANNEXURES.....	

1. FORM OF CONTRACT

COMPLEX TIME BASED ASSIGNMENTS

This CONTRACT (hereinafter called the “Contract”) is made the _____ day of the _____
 Month of _____, 20 _____, between, on the one hand ----- (hereinafter
 Called the “Client) and, on the other hand, _____ (herein after called the
 “Consultants”).

[Note : If the Consultants consist of more than one entity, the above should be partially amended to read as follows:*

“...(hereinafter called the “Client”) and, on the other hand, a joint venture consisting of the following entities, each of which will be jointly severally liable to the Client for all the Consultants’ obligations under this Contract, namely, _____ and _____ (hereinafter called “Consultants”)]

WHEREAS

- (a) the Client has requested the Consultants to provide certain consulting services as defined in the General Conditions of Contract attached to this Contract (hereinafter called the “Services”);
- (b) the Consultants, having represented to the Client that they have the required professional skills, and personnel and technical resources, have agreed to provide the Services on the terms and conditions set forth in this Contract;

NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:
 - (a) The General Conditions of Contract (hereinafter called “GC”)
 - (b) The Special Conditions of Contract (hereinafter called “SC”);
 - (c) The following Appendices :

[Note: If any of these Appendices are not used, the words “Not Used” should be inserted below next to the title of the Appendix on the sheet attached hereto carrying the title of that Appendix].

Appendix A	: Description of the Services
Appendix B	: Reporting Requirements
Appendix C	: Key Personnel and Sub-consultants
Appendix D	: Medical Certificate
Appendix E	: Hours of Work for Key Personnel
Appendix F	: Duties of the Client
Appendix G	: Cost Estimates in Foreign Currency
Appendix H	: Cost Estimates in Local Currency
Appendix I	: Form of Performance Bank Guarantee
Appendix J	: Form of Bank Guarantee for Advance Payments
Appendix K	: Letter of invitation
Appendix L	: Letter of Award
Appendix-M	: Minutes of pre-Bid Meeting
Appendix-N	: Memorandum of Understanding (in case of JV)

2. The mutual rights and obligations of the Client and the Consultants shall be as set forth in the Contract; in particular
 - (a) The Consultants shall carry out the Services in accordance with the provisions of the Contract; and
 - (b) The Client shall make payments to the Consultants in accordance with the Provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

FOR AND ON BEHALF OF
[NAME OF THE CLIENT]

By
(Authorized Representative)

FOR AND ON BEHALF OF
[NAME OF THE CONSULTANTS]

By
(Authorized Representative)

[Note: If the Consultants consist of more than one entity, all of these entities should appear as signatures, e.g. in the following manner]

FOR AND ON BEHALF OF EACH OF
THE MEMBERS OF THE CONSULTANTS

[Name of the Member]

By
(Authorized Representative)

[Name of the Member]

By
(Authorized Representative)

etc.

II. GENERAL CONDITIONS OF CONTRACT

1. General Provisions

1.1 Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- (a) "Applicable Law" means the laws and any other instruments having the force of law in the Government's country [or in such other country as may be specified in the Special Conditions of Contract (SC)], as they may be issued and in force from time to time.
- (b) "Contract" means the Contract signed by the Parties, to which these General Conditions of Contract are attached, together with all the documents listed in Clause 1 of such signed Contract;
- (c) "Effective Date" means the date on which this Contract comes into force and effect pursuant to Clause GC 2.1;
- (d) "Foreign currency" means any currency other than the currency of the Government;
- (e) "GC" means these General Conditions of Contract;
- (f) "Government" means the Government of Client's Country;
- (g) "Local currency" means the Indian Rupees;
- (h) "Consultant" wherever mentioned in this Contract Agreement means the "Authority Engineer (AE)" and includes sub-consultants or Associates engaged by the primary consultant.
- (i) "Member", in case the Consultants consist of a joint venture of more than one entity, means any of these entities, and "Members" means all of these entities;
- (j) "Party" means the Client or the Consultants, as the case may be, and Parties means both of them;
- (k) "Personnel" means persons hired by the Consultants or by any Sub-Consultants and or Associates as Employees and assigned to the performance of the Services or any part thereof; "Foreign Personnel" means such persons who at the time of being so hired had their domicile outside the Government's Country, "Local Personnel" means such persons who at the time of being so hired had their domicile inside the Government's Country; and 'key personnel' means the personnel referred to in Clause GC 4.2 (a).
- (l) "SC" means the Special Conditions of Contract by which these General Conditions of Contract may be amended or supplemented;
- (m) "Services" means the work to be performed by the Consultants pursuant to his contract, as described in Appendix A hereto. The scope of work will be strictly as given in various Clauses in TOR. The approach and methodology to be adopted by the Consultant for carrying out the assignment as Authority Engineer may be modified depending on the site requirements and work programme of the EPC Contractor after mutual discussions with Authority, the EPC Contractor and the Authority Engineer. The work plan as indicated by the Consultant may be modified accordingly to the site requirements.

- (n) "Sub-consultant and or Associates " means any entity to which the Consultants subcontract any part of the Services in accordance with the provisions of Clause GC 3.7; and
- (o) "Third Party" means any person or entity other than the Government, the Client, the Consultants or a Sub-consultant.

1.2 **Relation between the Parties**

Nothing contained herein shall be construed as establishing a relation of master and servant or of principal and agent as between the Client and the Consultants. The Consultants, subject to this Contract, have complete charge of Personnel and Sub- consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.

1.3 **Law Governing Contract**

This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Applicable Law.

1.4 **Language**

This Contract has been executed in the language specified in the SC, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.

1.5 **Headings**

The headings shall not limit, alter or affect the meaning of this Contract.

1.6 **Notices**

- 1.6.1 Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telegram or facsimile to such Party at the address specified in the SC.
- 1.6.2 Notice will be deemed to be effective as specified in the SC.
- 1.6.3 A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the SC with respect to Clause GC 1.6.2.

1.7 **Location**

The Services shall be performed at such locations as are specified in Appendix A hereto and, where the location of a particular task is not so specified, at such locations, whether in Government's Country or elsewhere, as the Client may approve.

1.8 **Authority of Member in Charge**

In case the Consultants consist of a joint venture of more than one entity, the members hereby authorize the entity specified in the SC to act on their behalf in exercising all the Consultants' rights and obligations towards the Client under this Contract, including without limitation the receiving of instructions and payments from the Client.

1.9 **Authorized Representatives**

Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Client or the Consultants may be taken or executed by the officials specified in the SC.

1.10 **Taxes and Duties**

Unless otherwise specified in the SC, the Consultants, Sub-consultants and Personnel shall pay such taxes, duties, fees and other impositions as may be levied under the Applicable Law. Authority shall reimburse only GST on production of project specific proof of payment of GST.

2. **Commencement, Completion, Modification and Termination of Contract**

2.1 **Effectiveness of Contract**

This Contract shall come into force and effect on the date (the "Effective Date") of the Client's notice to the Consultants instructing the Consultants to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SC have been met.

2.2 **Termination of Contract for Failure to Become Effective**

If this Contract has not become effective within such time period after the date of the Contract signed by the Parties as shall be specified in the SC, either Party may, by not less than four (4) weeks' written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.

2.3 **Commencement of Services**

The Consultants shall begin carrying out the Services at the end of such time period after the Effective Date as shall be specified in the SC.

2.4 **Expiration of Contract**

Unless terminated earlier pursuant to Clause GC 2.9 hereof, this Contract shall expire when services have been completed and all payments have been made at the end of such time period after the Effective Date as shall be specified in the SC.

2.5 **Entire Agreement**

This Contract contains all covenant, stipulations and provisions agreed by the Parties. No agent or representative of either Party has Authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

2.6 **Modification**

Modification of the terms and conditions of this Contract, including any modification of the scope of the Services, may only be made by written agreement between the Parties as the case may be, has been obtained. Pursuant to Clause GC 7.2 hereof, however, each Party shall give due consideration to any proposals for modification made by the other Party.

2.7 Force Majeure

2.7.1. Definition

- (a) For the purpose of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by government agencies.
- (b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a party or such Party's Sub-consultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both (A) take into account at the time of the conclusion of this Contract and (B) avoid or overcome in the carrying out of its obligations hereunder.
- (c) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

2.7.2 No Breach of Contract

The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of or default, under this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care" and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

2.7.3 Measures to be Taken

- (a) A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfil its obligations hereunder with a minimum of delay.
- (b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any event not later than fourteen (14) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.
- (c) The Parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

2.7.4 Extension of Time

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

2.7.5 **Payments**

During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultants shall be entitled to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in re-activating the Services after the end of such period.

2.7.6 **Consultation**

Not later than thirty (30) days after, the Consultants, as the result of an event of Force Majeure, have become unable to perform a material portion of the Services, the Parties shall consult with each other with a view to agreeing on appropriate measures to be taken in the circumstances.

2.8. **Suspension**

The Client may, by written notice of suspension to the Consultants, suspend all payments to the Consultants hereunder if the Consultants fail to perform any of their obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Consultants to remedy such failure within a period not exceeding thirty (30) days after receipt by the Consultants of such notice of suspension.

2.9 **Termination**

2.9.1 **By the Client**

The Client may, by not less than thirty (30) days written notice of termination to the Consultants (except in the event listed in paragraph (f) below, for which there shall be a written notice of not less than sixty (60) days), such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (h) of this Clause GC 2.9.1, terminate this Contract.

- (a) if the Consultants fail to remedy a failure in the performance of their obligations hereunder, as specified in a notice of suspension pursuant to Clause GC 2.8 herein above, within thirty (30) days of receipt of such notice of suspension or within such further period as the Client may have subsequently approved in writing;
- (b) if the Consultants become (or, if the Consultants consist of more than one entity, if any of their Members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;
- (c) if the Consultants fail to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GC 8 hereof;
- (d) if the Consultants submit to the Client a statement which has a material effect on the rights, obligations or interests of the Client and which the Consultants know to be false;
- (e) if, as the result of Force Majeure, the Consultants are unable to perform a material portion of the Services for a period of not less than sixty (60) days; or

- (f) if the Client, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.
- (g) if the consultant, in the judgment of the Client has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. For the purpose of this clause:

"corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the selection process or in contract execution.

"fraudulent practice" means a misrepresentation of facts in order to influence a selection process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among consultants (prior to or after submission of proposals) designed to establish prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

- (h) if EPC Contractor represents to Authority that the Consultant is not discharging his duties in a fair, efficient and diligent manner and if the dispute remains unresolved, Authority may terminate this contract.

2.9.2 By the Consultants

The Consultants may, by not less than thirty (30) days' written notice to the Client, such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause GC 2.9.2, terminate this Contract:

- (a) if the Client fails to pay any money due to the Consultants pursuant to this Contract and not subject to dispute pursuant to Clause 8 hereof within forty-five (45) days after receiving written notice from the Consultants that such payment is overdue;
- (b) if the Client is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultants may have subsequently approved in writing) following the receipt by the Client of the Consultants' notice specifying such breach;
- (c) if, as the result of Force Majeure, the Consultants are unable to perform a material portion of the Services for a period of not less than sixty (60) days; or
- (d) if the Client fails to comply with any final decision reached as a result of arbitration pursuant to Clause GC 8 hereof.

2.9.3. Cessation of Rights and Obligations

Upon termination of this Contract pursuant to Clauses GC 2.2 or GC 2.9 hereof, or upon expiration of this Contract pursuant to Clause GC 2.4 hereof, all rights and obligations of the Parties here under shall cease, except:

- (i) such rights and obligations as may have accrued on the date of termination or expiration;
- (ii) the obligation of confidentiality set forth in Clause GC 3.3 hereof;
- (iii) the Consultants' obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GC 3.6 (ii) hereof; and
- (iv) any right which a Party may have under the Applicable Law

2.9.4 Cessation of Services

Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GC 2.9.1 or GC 2.9.2 hereof, the Consultants shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultants and equipment and materials furnished by the Client, the Consultants shall proceed as provided, respectively, by Clauses GC 3.9 or GC 3.10 hereof.

2.9.5 Payment upon Termination

Upon termination of this Contract pursuant to Clauses GC 2.9.1 or GC 2.9.2 hereof, the Client shall make the following payments to the Consultants (after offsetting against these payments any amount that may be due from the Consultant to the Client):

- (a) Remuneration pursuant to Clause GC 6 here of for Services satisfactorily performed prior to the effective date of termination;
- (b) reimbursable expenditures pursuant to Clause GC 6 hereof for expenditures actually incurred prior to the effective date of termination; and
- (c) except in the case of termination pursuant to paragraphs (a) through (d) of Clause GC 2.9.1 hereof, reimbursement of any reasonable cost incident to the prompt and orderly termination of the Contract including the cost of the return travel of the Consultants' personnel and their eligible dependents.

2.9.6. Disputes about Events of Termination

If either Party disputes whether an event specified in paragraphs (a) through (e) of Clause GC 2.9.1 or in Clause GC 2.9.2 hereof has occurred, such Party may, within forty-five (45) days after receipt of notice of termination from the other Party, refer the matter to arbitration pursuant to Clause GC 8 hereof, and this Contract shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award.

3. Obligation of the Consultants

3.1 General

3.1.1. Standard of Performance

The Consultants shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advanced technology and safe and effective equipment, machinery, materials and methods" The Consultants shall always" act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the Client, and shall at all times support and safeguard the Client's legitimate interests in any dealings with Sub-consultants or Third Parties.

3.1.2 Law Governing Services

The Consultants shall perform the Services in accordance with the Applicable Law and shall take all practicable steps to ensure that any Sub- consultants and or Associates, as well as the Personnel of the Consultants and any Sub- consultants and , or Associates comply with the Applicable Law. The Client shall advise the Consultants in writing of relevant local customs and the Consultants shall, after such notifications, respect such customs.

3.2 Conflict of Interests

3.2.1 Consultants Not to Benefit from Commissions, Discounts, etc.

The Remuneration of the Consultants pursuant to Clause GC 6 hereof shall constitute the Consultants' sole remuneration in connection with this Contract or the Services and, subject to Clause GC 3.2.2 hereof, the Consultants shall not accept for their own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations hereunder, and the Consultants shall use their best efforts to ensure that any Sub- consultants and or Associates, as well as the Personnel and agents of either of them, similarly shall not receive any such additional remuneration.

3.2.2 If the Consultants, as part of the Services, have the responsibility of advising the Client on the procurement of goods, works or services, the Consultants shall comply with any applicable procurement guidelines of the Client and or Associates Bank or of the Association, as the case may be, and other funding agencies and shall at all times exercise such responsibility in the best interest of the Client. Any discounts or commissions obtained by the Consultants in the exercise of such procurement responsibility shall be for the account of the Client.

3.2.3 Consultants and Affiliates Not to engage in Certain Activities

The Consultants agree that, during the term of this Contract and after its termination, the Consultants and any entity affiliated with the Consultants, as well as any Sub- consultant and or Associates and any entity affiliated with such Sub- consultant and or Associates, shall be disqualified from providing goods, works or services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.

3.2.4 Prohibition of Conflicting Activities

The Consultants shall not engage, and shall cause their Personnel as well as their Sub- consultants and or Associates and their Personnel not to engage, either directly or indirectly, in any of the following activities:

- (a) during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract; and
- (b) after the termination of this Contract, such other activities as may be specified in the SC.

3.3 **Confidentiality**

The Consultants, their Sub-consultants and the Personnel of either of them shall not, either during the term or within two (2) years after the expiration of this Contract, disclose any proprietary or confidential information relating to the Project, the Services, this Contract or the Client's business or operations without the prior written consent of the Client.

3.4 **Liability of the Consultants**

Subject to additional provisions, if any, set forth in the SC, the Consultants' liability under this Contract shall be as provided by the Applicable Law.

3.5 **Insurance to be Taken out by the Consultants**

The Consultants (i) shall take out and maintain, and shall cause any Sub-consultants to take out and maintain, at their (or the Sub-consultants', as the case may be) own cost but on terms and conditions approved by the Client, insurance against the risks, and for the coverage, as shall be specified in the SC, and (ii) at the Client's request, shall provide evidence to the Client showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.

3.6 **Accounting, Inspection and Auditing**

The Consultants (i) shall keep accurate and systematic accounts and records in respect of the Services, hereunder, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time charges and cost, and the bases thereof (including such bases as may be specifically referred to in the SC); (ii) shall permit the Client or its designated representative periodically, and up to one year from the expiration or termination of this Contract, to inspect the same and make copies thereof as well as to have them audited by auditors appointed by the client; and (iii) shall permit the client to inspect the Consultant's accounts and records relating to the performance of the Consultant and to have them audited by auditors appointed by the client.

3.7 **Consultants' Actions Requiring Client's Prior Approval**

The Consultants shall obtain the Client's prior approval in writing before taking any of the following actions:

- (a) appointing such members of the Personnel as are listed in Appendix C ("Consultants' Sub-consultants' Key Personnel") merely by title but not by name;
- (b) entering into a subcontract for the performance of any part of the Services, it being understood (i) that the selection of the Sub-consultant and the terms and conditions of the subcontract shall have been approved in writing by the Client prior to the execution of the subcontract, and (ii) that the Consultants shall remain fully liable for the performance of the Services by the Sub-consultant and its Personnel pursuant to this Contract; and
- (c) any other action that may be specified in the SC

3.8 **Reporting Obligations**

The Consultants shall submit to the Client the reports and documents specified in Appendix B hereto, in the form, in the numbers and within the time periods set forth in the said Appendix.

3.9 **Documents Prepared by the Consultants to Be the Property of the Client**

All plans, drawings, specifications, designs, reports, other documents and software prepared by the Consultants for the Client under this Contract shall become and remain the property of the Client, and the Consultants shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Client, together with a detailed inventory thereof. The Consultants may retain a copy of such documents and software. Restrictions about the future use of these documents and software, if any, shall be specified in the SC.

3.10 **Equipment and Materials Furnished by the Client**

Equipment and materials made available to the Consultants by the Client, or purchased by the Consultants with funds provided by the Client, shall be the property of the Client and shall be marked accordingly. Upon termination or expiration of this Contract, the Consultants shall make available to the Client an inventory of such equipment and materials and shall dispose of such equipment and materials in accordance with the Client's instructions. While in possession of such equipment and materials, the Consultants, unless otherwise instructed by the Client in writing, shall insure them at the expense of the Client in an amount equal to their full replacement value.

4. **Consultants' Personnel and Sub-consultants and or Associates**

4.1 **General**

The Consultants shall employ and provide such qualified and experienced Personnel and Sub-consultants as are required to carry out the Services.

4.2 **Description of Personnel**

- (a) The titles, agreed job descriptions, minimum qualification and estimated periods of engagement in the carrying out of the Services of each of the Consultants' Key Personnel are described in Appendix C. If any of the Key Personnel has already been approved by the clients his/her name is listed as well.
- (b) If required to comply with the provisions of Clause GCC 3.1.1 hereof, adjustments with respect to the estimated periods "of engagement of Key Personnel set forth in Appendix C may be made by the Consultants by written notice to the Client, provided (i) that such adjustments shall not alter the originally estimated period of engagement of any individual by more than 10% or one week, whichever is larger, and (ii) that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GC 6.1(b) of this Contract. Any other such adjustments shall only be made with the Client's written approval.
- (c) If additional work is required beyond the scope of the Services specified in Appendix A, the estimated periods of engagement of Key Personnel set forth in Appendix C may be increased by agreement in writing between the Client and the Consultants, provided that any such increase shall not, except as otherwise agreed, cause payments under this Contract to exceed the ceilings set forth in Clause GC 6.1

(b) of this Contract.

4.3 **Approval of Personnel**

The Key Personnel i.e. Professional Staff and Sub-consultants listed by title as well as by name in Appendix C are hereby approved by the Client. In respect of other Key Personnel which the Consultants propose, to use for carrying out the Services, the Consultants shall submit to the client for review and approval a copy of their biographical data and (in the case of Key personnel to be used within the country of the Government) a copy of a satisfactory medical certificate in the form attached hereto as Appendix D. If the Client does not object in writing (stating the reasons for the objection) within thirty (30) calendar days from the date of receipt of such biographical data and (if applicable) such certificate, such Key Personnel shall be deemed to have been approved by the Client.

4.4 **Working Hours, Overtime, Leave, etc.**

- (a) Working hours and holidays for Key Personnel are set forth in Appendix E hereto.
- (b) The Personnel of all types engaged by Consultant to provide Services on this Contract shall not be entitled to be paid for overtime nor to take paid sick leave or vacation leave **except as specified in Appendix E** hereto, and except as specified In such Appendix, the Consultants' remuneration shall be deemed to cover these items. All leave to be allowed to the Personnel is included in the staff-months of service set for in **Appendix C**. Any taking of leave by Personnel shall be subject to the prior approval by the Client and the Consultants shall ensure that absence for leave purposes will not delay the progress and adequate supervision of the Services.
- (c) The intermittent key personnel/Sub professionals shall be positioned at the project office/site based on the requirement only after getting prior approval of the Authority limiting to the total man months provided for each category of the Key personnel/professionals.

4.5 **Removal and/or Replacement of Personnel**

- (a) Except as the Client may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Consultants, it becomes necessary to replace any of the Personnel, the Consultants shall forthwith provide as a replacement a person of equivalent or better qualifications.
- (b) If the Client (i) finds that any of the Personnel has committed serious misconduct or has been charged with having committed a criminal action, or (ii) has reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultants shall, at the Client's written request specifying the grounds therefore, forthwith provide as a replacement a person with qualifications and experience acceptable to the Client.
- (c) Any of the Personnel provided as a replacement under Clauses (a) and (b) above, the rate of remuneration applicable to such person as well as any reimbursable expenditures (including expenditures due to the number of eligible dependents) the Consultants may wish to claim as a result of such replacement, shall be subject to the prior written approval by the Client. Except as the Client may otherwise agree, (i) the Consultants shall bear all additional travel and other costs arising

out of or incidental to any removal and/or replacement, and (ii) the remuneration to be paid to any of the Key Personnel provided as a replacement shall be 90% of the remuneration which would have been payable to the Key Personnel replaced. However, for the reason other than death/extreme medical ground, (i) for total replacement upto 33% of key personnel, remuneration shall be reduced by 20% (ii) for total replacement upto between 33% to 50%, remuneration shall be reduced by 25% and (iii) for total replacement up to between 50% to 66%, remuneration shall be reduced by 30% (iv) For total replacements beyond 66% of the key personnel the client shall initiate action of higher penalty/termination/debarment upto 2 years as considered appropriate.

- (d) In order to prevent the tendency of the personnel and consulting firm to submit incorrect and inflated CV, they should sign every page of CV before submission in order to authenticate that CV furnished by them is correct. The consulting firm and the personnel through consulting firm should be informed by Authority while accepting CV of the new personnel that if CV is found in correct and inflated at a later date, the personnel accepted would be removed from his assignment and debarred from further Authority works for an appropriate period to be decided by Authority and the new proposed personnel in place of removed personnel would be paid 15% less salary than the original personnel. 15% reduction in the salary will be imposed as a penalty for submitting the incorrect information. This penalty will be imposed only once. If the same consulting firm submits incorrect information again second time, necessary action will be taken by Authority to black-list that firm.

4.6 **Resident Project Manager**

If required by the SC, the Consultants shall ensure that at all times during the Consultants' performance of the Services in the Government's country a resident project manager, acceptable to the Client, shall take charge of the performance of such Services.

5. **Obligations of the Client**

5.1 **Assistance and Exemptions**

Unless otherwise specified in the SC, the Client shall use its best efforts to ensure that the Government shall:

- (a) provide the Consultants, Sub-consultants and Personnel with work permits and such other documents as shall be necessary to enable the Consultants, Sub-consultants or Personnel to perform the Services;
- (b) assist for the Personnel and, if appropriate, their eligible dependents to be provided promptly with all necessary entry and exit visas, residence permits, exchange permits and any other documents required for their stay in Government's country;
- (c) facilitate prompt clearance through customs of any property required for the Services and of the personal effects of the Personnel and their eligible dependents;
- (d) issue to officials, agents and representatives of the Government all such instructions as may be necessary or appropriate for the prompt and effective implementation of the Services;

- (e) assist the Consultants and the Personnel and any Sub-consultants and or Associates employed by the Consultants for the Services from any requirement to register or obtain any permit to practice their profession or to establish themselves either individually or as a corporate entity according to the Applicable Law;
- (f) grant to the Consultants, any Sub-consultants and or Associates and the Personnel of either of them the privilege, pursuant to the Applicable Law, of bringing into Government's country reasonable amounts of foreign currency for the purposes of the Services or for the personal use of the Personnel and their dependents and of withdrawing any such amounts as may be earned therein by the Personnel in the execution of the Services: and
- (g) Provide to the Consultants, Sub-consultants and or Associates and Personnel any such other assistance as may be specified in the SC.

5.2 Access to Land

The Client warrants that the Consultants shall have, free of charge, unimpeded access to all land in the Government's country in respect of which access is required for the performance of the Services. The Client will be responsible for any damage to such land or any property thereon resulting from such access and will indemnify the Consultants and each of the Personnel in respect of liability for any such damage, unless such damage is caused by the default or negligence of the Consultants or any Sub-consultant or the Personnel of either of them.

5.3 Change in the Applicable Law

If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost or reimbursable expenses incurred by the Consultants in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultants under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GC 6.1(b).

5.4 Services, Facilities and Property of the Client

The Client shall make available to the Consultants and the Personnel, for the purposes of the services and free of any charge, the services, facilities and property described in Appendix F at the times and in the manner specified in said Appendix F, provided that if such services, facilities and property shall not be made available to the Consultants as and when so specified, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultants for the performance of the Services, (ii) the manner in which the Consultants shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Consultants as a result thereof pursuant to Clause GC 6.1 (c) hereinafter.

5.5 Payment

In consideration of the Services performed by the Consultants under this Contract, the Client shall make to the Consultants such payments and in such manner as is provided by

Clause GC 6 of this Contract.

5.6 Counterpart Personnel

- (a) If so provided in **Appendix F** hereto, the Client shall make available to the Consultants, as and when provided in such Appendix F, and free of charge, such counterpart personnel to be selected by the Client, with the Consultants' advice, as shall be specified in such **Appendix F**. Counterpart personnel shall work under the exclusive direction of the Consultants. If any member of the counterpart personnel fails to perform adequately any work assigned to him by the Consultants which is consistent with the position occupied by such member, the Consultants may request the replacement of such member, and the Client shall not unreasonably refuse to act upon such request.
- (b) If counterpart personnel are not provided by the Client to the Consultants as and when specified in Appendix F, the Client and the Consultants shall agree on (i) how the affected part of the Services shall be carried out, and (ii) the additional payments, if any, to be made by the Client to the Consultants as a result thereof pursuant to Clause GC 6.1(c) hereof.

6. Payments to the Consultants

6.1 Cost Estimates; Ceiling Amount

- (a) An estimate of the cost of the Services payable in local currency is set forth in Appendix H.
- (b) Except as may be otherwise agreed under Clause GC 2.6 and subject to Clause GC 6.1(c), payments under this Contract shall not exceed the ceilings in local currency specified in the SC. The consultants shall notify the Client as soon as cumulative charges incurred for the Services have reached 80% of either of these ceilings.
- (c) Notwithstanding Clause GC 6.1(b) hereof, if pursuant to clauses GC 5.3,5.4 or 5.6 hereof, the Parties shall agree that additional payments in local as the case may be, shall be made to the Consultants in order to cover any necessary additional expenditures not envisaged in the cost estimates referred to in Clause GC 6.1(a) above, the ceiling or ceilings, as the case may be, set forth in Clause GC 6.1 (b) above shall be increased by the amount or amounts, as the case may be, of any such additional payments.

6.2 Remuneration and Reimbursable Expenditures

- (a) Subject to the ceilings specified in Clause GC 6.1 (b) hereof, the Client shall pay to the Consultants (i) remuneration as set forth in Clause GC 6.2 (b), and (ii) reimbursable expenditures as set forth in Clause GC 6.2 (c).
- (b) Remuneration for the Personnel shall be determined on the basis of time actually spent by such Personnel in the performance of the Services after the date determined in accordance with Clause GC 2.3 and Clause SC 2.4 (or such other date as the Parties shall agree in writing at the rates referred to, and subject to such additional provisions as are set forth, in the SC.

- (c) Reimbursable expenditures actually and reasonably incurred by the Consultants in the performance of the Services, as specified in Clause SC 6.3(b).

6.3 **Currency of Payment**

- (a) Local currency payments shall be made in the currency of the Government.
- (b) The SC shall specify which items of remuneration and reimbursable expenditures shall be paid in local currency.

6.4 **Mode of Billing and Payment**

Billing and payments in respect of the Services shall be made as follows:

- (a) The Client shall cause to be paid to the Consultants an interest bearing advance payment as specified in the SC, and as otherwise set forth below. The advance payment will be due after provision by the Consultants to the Client of a bank guarantee by a bank acceptable to the Client in an amount (or amounts) and in a currency (or currencies) specified in the SC, such bank guarantee (i) to remain effective until the advance payment has been fully set off as provided in the SC, and (ii) to be in the form set forth in Appendix J hereto or in such other form as the Client shall have approved in writing.
- (b) As soon as practicable and not later than fifteen (15 days) after the end of each calendar month during the period of the Services, the Consultants shall submit to the Client, in duplicate, itemized statements, accompanied by copies of receipted invoices, vouchers and other appropriate supporting materials, of the amounts' payable pursuant to Clauses GC 6.3 and 6.4 for such month. Separate monthly statements shall be submitted in respect of amounts payable in local currency. Each such separate monthly statement shall distinguish that portion of the total eligible costs which pertains to remuneration from that portion which pertains to reimbursable expenditures.
- (c) The Client shall cause the payment of the Consultants periodically as given in schedule of payment above within sixty (60) days after the receipt by the Client of bills with supporting documents. Only such portion of a monthly statement that is not satisfactorily supported may be withheld from payment. Should any discrepancy be found to exist between actual payment and costs authorized to be incurred by the Consultants, the Client may add or subtract the difference from any subsequent payments. Interest at the rate specified in the SC shall become payable as from the above due date on any amount due by, but not paid on such due date.
- (d) The final payment under this Clause shall be made only after the final report and a final statement, identified as such, shall have been submitted by the Consultants and approved as satisfactory by the Client. The Services shall be deemed completed and finally accepted by the Client and the final report and final statement shall be deemed approved by the Client as satisfactory ninety (90) calendar days after receipt of the final report and final statement by the Client unless the Client, within such ninety (90)-day period, gives written notice to the Consultants specifying in detail deficiencies in the Services, the final report or final statement. The Consultants shall thereupon promptly make any necessary corrections, and upon completion of such corrections, the foregoing process shall be repeated. Any amount which the Client has paid or caused to be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the

provisions of this Contract shall be reimbursed by the Consultants to the Client within thirty, (30) days after receipt by the Consultants of notice thereof. Any such claim by the Client for reimbursement must be made within twelve (12) calendar months after receipt by the Client of a final report and a final statement approved by the Client in accordance with the above.

- (e) All payments under this Contract shall be made to the account of the Consultants specified in the SC.

7. **Fairness and Good Faith**

7.1 **Good Faith**

The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

7.2 **Operation of the Contract**

The Parties recognize that it is impractical in this Contract to provide for every contingency which may arise during the life of the Contract, and the Parties hereby agree that it is their intention that this Contract shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this Contract either Party believes that this Contract is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but on failure to agree on any action pursuant to this Clause shall give rise to a dispute subject to arbitration in accordance with Clause GC 8 hereof.

8. **Settlement of Disputes**

8.1 **Amicable Settlement**

The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or the interpretation thereof.

8.2 **Dispute Settlement**

Any dispute between the Parties as to matters arising pursuant to this Contract which can not be settled amicably within thirty (30) days after receipt by one Party of the other Party's request for such amicable settlement may be submitted by either Party for settlement in accordance with the provisions specified in the SC.

III. SPECIAL CONDITIONS OF CONTRACT**GC Clause****A. Amendments of, and Supplements to, Clauses in the General Conditions of Contract**

1.1(a) The words 'in the Government's country' are amended to read 'in INDIA'

1.4 The language is: English

1.6.1 The addresses are:

Client: **Member Secretary**
Orissa Water Supply & Sewerage Board,
Satyanagar, Bhubaneswar,
Odisha, Pin-751007.

Attention:

Email address:msowssb@gmail.com

Telephone No: (0674) 2571341/ 2571185

Fax: 0674-2571348

Consultants:

Attention:

Cable address : _____

Telex : _____

Facsimile : _____

[Note: Fill in the Blanks]

1.6.2 Notice will be deemed to be effective as follows:

- (a) in the case of personal delivery or registered mail, on delivery;
- (b) in the case of telexes, 24 hours following confirmed transmission;
- (c) in the case of telegrams, 24 hours following confirmed transmission;
- and
- (d) in the case of facsimiles, 24 hours following confirmed transmission.

1.8 The Member in Charge is : Member (P) Shri

(Note: If the Consultants consist of a joint venture of more than one entity, the name of the entity whose address is specified in SC 1.6.1 should be inserted here. If the Consultants consist of one entity, this Clause 1.8 should be deleted from the SC)

1.9 The Authorised Representative is

- For the Client: (i) Project Engineer, Project Management Unit – I,
OWSSB, Bhubaneswar for Dist I & II ,
(ii) Project Engineer, Project Management Unit – II,
OWSSB, Bhubaneswar for Dist III & Dist IV,
(iii) Project Engineer, Project Management Unit – I,
OWSSB, Sambalpur and
(iv) Project Engineer, Project Management Unit – I,
OWSSB, Rourkela

For the Consultants: _____

1.10 The Consultants, Sub-consultants and the Personnel shall pay the taxes, duties, fees, levies and other impositions levied under the existing, amended or enacted laws during life of this contract and the client shall perform such duties in regard to the deduction of such tax as may be lawfully imposed.

2.1 The effectiveness conditions are the following:

- i) Approval of the Contract by the client

2.2 The time period shall be four months or such other time period as the parties may agree in writing.

2.3 DELETED

2.4 The time period shall be 36 months (Thirty six months) for construction period only .

3.4 Limitation of the Consultants' Liability towards the Client

- (a) Except in case of gross negligence or wilful misconduct on the part of the Consultants or on the part of any person or firm acting on behalf of the Consultants in carrying out the Services, the Consultants, with respect to damage caused by the Consultants to the Client's property, shall not be liable to the Client:

- i) for any indirect or consequential loss or damage; and
 - ii) Consultant will maintain at its expenses; Professional Liability Insurance including coverage for errors and omissions caused by Consultant's negligence in the performance of its duties under this agreement, (A) For the amount not exceeding total payments for Professional Fees and Reimbursable Expenditures made or expected to be made to the Consultants hereunder OR (B) the proceeds, the Consultants may be entitled to receive from any insurance maintained by the Consultants to cover such a liability, whichever of (A) or (B) is higher.
 - iii) The policy should be issued only from an Insurance Company operating in India.
 - iv) The policy must clearly indicate the limit of indemnity in terms of "Any One Accident" (AOA) and "Aggregate limit on the policy period" (AOP) and in no case should be for an amount less than stated in the contract.
 - v) If the Consultant enters into an agreement with Authority in a joint venture or 'in association', the policy must be procured and provided to Authority by the joint venture/in association entity and not by the individual partners of the joint venture/association.
 - vi) The contract may include a provision whereby the Consultant does not cancel the policy midterm without the consent of Authority. The insurance company may provide an undertaking in this regard.
- (b) This limitation of liability shall not affect the Consultants' liability, if any, for damage to Third Parties caused by the Consultants or any person or firm acting on behalf of the Consultants in carrying out the Services.
- (c) Professional Liability Insurance (PLI) may be accepted for initially one year which shall be extended annually for five years. PLI shall be uniformly taken for a period of five years.

3.5 The risks and the coverage shall be as follows

- (a) Third Party motor vehicle liability insurance as required under Motor Vehicles Act, 1988 in respect of motor vehicles operated in India by the Consultants or their Personnel or any Sub-consultants or their Personnel for the period of consultancy.
- (b) Third Party liability insurance with a minimum coverage, of Rs. 1.0 million for the period of consultancy.
- (c) Professional liability insurance as per 3.4 (a) (ii) of SC of the consultancy, with a minimum coverage equal to estimated remuneration and reimbursable.

- (d) Employer's liability and workers' compensation insurance in respect of the Personnel of the Consultants and of any Sub-consultant, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate; and
- (e) Insurance against loss of or damage to (i) equipment purchased in whole or in part with funds provided under this Contract, (ii) the Consultants' property used in the performance of the Services, and (iii) any documents prepared by the Consultants in the performance of the Services.

3.7(c) The other actions are

- (i) taking any action under a civil works contract designating the Consultants as "Authority's Engineer", for which action, pursuant to such civil works contract, the written approval of the Client as "Employer" is required".

3.9 The Consultants shall not use these documents for purposes unrelated to this Contract without the prior written approval of the Client.

4.6 "The person designated as Team Leader-cum-Sewerage Expert in Appendix C shall serve in that capacity, as specified in Clause GC 4.6."

6.1(b) The ceiling in local currency is: _____

6.2(a) "Payments for remuneration made in accordance with Clause GC 6:2(a) in local currency shall be adjusted as follows :

- (i) DELETED
- (ii) Remuneration paid in local currency pursuant to the rates set forth in Appendix H shall be adjusted every eighteen (18) months (and, the first time, with effect for the remuneration earned in the 19th calendar month after the date of the contract) by 8% every 18 months of domestic personnel.

Notwithstanding any other provisions in the agreement in this regard, this provision will prevail and over ride any other provision to the contrary in this agreement.

6.2(b)(i) (1) It is understood (i) that the remuneration rates shall cover (A) such salaries and allowances as the Consultants shall have agreed to pay to the Personnel as well as factors for social charges and overhead, and (B) the cost of backstopping by home office staff not included in the Personnel listed in Appendix C, and (C) the Consultants' fee; (ii) that bonuses or other means of profit-sharing shall not be allowed as an element of overhead, and (iii) that any rates specified for persons not yet appointed shall be provisional and shall be subject to revision, with the written approval of the Client, once the applicable salaries and allowances are known.

- (2) Remuneration for periods of less than one month shall be calculated on an hourly basis for actual time spent in the Consultants' home office and directly attributable to the Services (one hour being equivalent to 1/240th of a month) and on a calendar-day basis for time spent away from home office (one day being equivalent to 1/30th of a month).
- 6.2(b)(ii) The rates for Personnel are set forth in Appendix H .
- 6.3 (a) DELETED
- 6.3(b) (i) Remuneration for Personnel shall be paid in local currency.
- 6.3 (b) (ii) DELETED
- 6.4(a) The following provisions shall apply to the interest bearing advance payment and the advance payment guarantee:
- 1) An interest bearing advance payment of 10% of the contract price shall be made within 60 days after receipt and verification of advance payment bank guarantee. The advance payment will be set off by the Client in equal instalments against the statements for the first 12 months of the Service until the advance payment has been fully set off.
 - 2) The bank guarantee shall be for an amount equivalent to 110% (one hundred and ten per cent) of such advance payment and in the local currency from a Nationalised/Scheduled Bank of India, Counter guaranteed by its branch at Bhubaneswar for advance payment.
 - 3) Interest rate shall be 10% per annum.
 - 4) Interest rate shall be 18% per annum on outstanding amount (The outstanding amount is that amount which was not recovered within 12 months service period).
- 6.4 (c) DELETED
- 6.4(e) The accounts are: _____

[Note: Insert account number, type of account and name and address of the Bank]

- 8.2 Disputes shall be settled by arbitration in accordance with the following provisions:

8.2.1 Selection of Arbitrators

Each dispute submitted by a Party to arbitration shall be heard by a sole arbitrator or an arbitration panel composed of three arbitrators, in accordance with the following provisions:

- (a) Where the Parties agree that the dispute concerns a technical matter, they may agree to appoint a sole arbitrator or, failing agreement on the identity of such sole arbitrator or within thirty (30) days after receipt by the other Party of the proposal of a name for such an appointment by the Party who initiated the

proceedings, either Party may apply to the Secretary, H&UD Dept., Govt. of Odisha, for a list of not fewer than three nominees and, on receipt of such list, the Parties shall alternately strike names there from, and the last remaining nominee on the list shall be the sole arbitrator for the matter in dispute. If the last remaining nominee has not been determined in this manner within sixty (60) days of the date of the list, the H&U.D. Deptt. Govt. of Odisha, shall appoint, upon the request of either Party and from such list or otherwise, a sole arbitrator for the matter in dispute.

- (b) Where the Parties do not agree that the dispute concerns a technical matter, the Client and the Consultants shall each appoint one arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration panel. If the arbitrators named by the Parties do not succeed in appointing a third arbitrator within thirty (30) days after the latter of the two arbitrators named by the Parties has been appointed, the third arbitrator shall, at the request of either Party, be appointed by Secretary, the Indian Council of Arbitration, New Delhi.
- (c) If, in a dispute subject to Clause SC 8.2.1 (b), one Party fails to appoint its arbitrator within thirty (30) days after the other Party has appointed its arbitrator, the Party which has named an arbitrator may apply to the Secretary, Indian Council of Arbitration, New Delhi, to appoint a sole arbitrator for the matter in dispute, and the arbitrator appointed pursuant to such application shall be the sole arbitrator for that dispute.

8.2.2 Rules of Procedure

Arbitration proceedings shall be conducted in accordance with procedures of the Arbitration & Conciliation Act 1996, of India.

8.2.3 Substitute Arbitrators

If for any reason an arbitrator is unable to perform his function, a substitute shall be appointed in the same manner as the original arbitrator.

8.2.4 Qualifications of Arbitrators

The sole arbitrator or the third arbitrator appointed pursuant to paragraphs (a) through (c) of Clause 8.2.1 hereof shall be an internationally/nationally recognized legal or technical expert with extensive experience in relation to the matter in dispute.

8.2.5 Miscellaneous

In any arbitration proceeding hereunder:

- (a) Proceedings shall, unless otherwise agreed by the parties, be held in Bhubaneswar.
- (b) The English language shall be the official language for all purposes; and
- (c) The decision of sole arbitrator or of a majority of the arbitrators (or of the third arbitrator if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction, and the Parties hereby waive any objections to or claims of immunity in respect of such enforcement.

(g) Fee structure shall be as indicated below:

Sl No.	Particulars	Maximum amount payable per Arbitrator/ per case
1	Arbitrator fee	Rs.15,000/- per day subject to a maximum 4 lacs or Rs 2.5 lacs (lump sum) subject to publishing the award within 12 months.
2	Reading Charges	Rs 15,000/-
3	Secretarial Assistance	Rs 20,000/-
4	Incidental charges (telephone, fax, postage etc.)	Rs 6,000/-
5	Charges for Publishing /declaration of the Award	Maximum of Rs. 20,000/-
6	Other expenses (actuals against bills subject to the prescribed ceiling) Traveling Expenses Lodging and Boarding	Maximum ceiling Economy class (by air), First class AC (by train) and AC car (by road) 1. Rs 15,000/- per day (in metro cities) 2. Rs 7,000/- per day (in other cities) 3. Rs 3,000/- per day, if any Arbitrator makes their own arrangements.
7	Local Travel	Rs. 1500/- per day
8.	Extra charges for days other than hearing/meeting days (maximum for 2 days)	Rs. 3,500/- per day
Note	1. Lodging, boarding and travelling expenses shall be allowed only for those members who are residing 100 Km away from place of meeting. 2. Delhi, Mumbai, Chennai, Kolkata, Bangalore and Hyderabad shall be considered as Metro Cities.	

IV. APPENDICES

Appendix A: Description of the Services

[Give detailed descriptions of the Services to be provided; dates for completion of various tasks, place of performance for different tasks; specific tasks to be approved by Client, etc.]

Details as per TOR

Appendix B: Reporting Requirements

[List format, frequency, contents of reports and number of copies; persons to receive them; dates of submission, etc. If no reports are to be submitted, state here "Not applicable".]

Please refer TOR

Appendix C: Key Personnel and Sub-consultants

- [List under: C-1 Titles [and names, if already available], detailed job descriptions and minimum qualifications. experience of Personnel to be assigned to work, and staff- months for each.*
- C-2 Same information as C-1 for Key Personnel.*
- C-3 Deleted*
- C-4 List of approved Sub-consultants [if already available]; same information with respect to their Personnel as in C-1 through C-4)*

Please refer TOR

Appendix D: Medical Certificate

DELETED

Appendix E: Hours of Work for Key Personnel

The Consultants Key personnel and all other Professional / Sub Professional / Support Staff / Sub-Consultancy personnel shall work 6 days (Mondays through Saturday) every week and observe the Gazetted Holidays of Government of Odisha as Holidays, The Consultant shall work as per the work program of the EPC Contractor. In this context in case the work plan of the Consultant needs suitable modifications, the same shall be carried out and submitted to the client for consideration. The Consultants hours of work normally shall match with that of Contractor's activities on the site. No extra remuneration shall be claimed or paid for extra hours of work required in the interest of Project completion.

Appendix F:

Duties of the Client

[List here under:

- F-1 Services, facilities and property to be made available to the consultants by the clients.
- F-2 Counterpart personnel to be made available to the consultants by the client.]

Please refer TOR

Appendix G: Cost Estimates in Foreign Currency

Deleted

Appendix H: Cost Estimates in Local Currency

DELETED

Appendix I: FORM OF PERFORMANCE SECURITY
(PERFORMAMANCE BANK GUARANTEE)

(Clause-13 of TOR)

To

The Member Secretary,
 Orissa Water Supply & Sewerage Board,
 Satyanagar, Bhubaneswar,
 Odisha, Pin-751007.

WHEREAS _____

[Name and address of Consultants]¹ (hereinafter called "the consultants")
 has _____ undertaken, _____ in _____ pursuance _____ of _____ Contract
 No. _____ dated _____ to provides
 the services on terms and conditions set forth in this Contract
 _____ [Name of contract and brief
 description of works) (hereinafter called the "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Consultants shall furnish you with a Bank Guarantee by a Nationalised bank of India, Counter Guaranteed by its Branch at Bhubaneswar for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Consultants such a Bank Guarantee;

NOW THEREOF we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Consultants up to a total of _____ [amount of Guarantee]²
 _____ [in words], such sum
 being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ [amount of Guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Consultants before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the services to be performed there under or of any of the Contract documents which may be made between you and the Consultants shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

The liability of the Bank under this Guarantee shall not be affected by any change in the constitution of the consultants or of the Bank.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rupees _____) and the guarantee shall remain valid till _____. Unless a claim or a demand in writing is made upon us on or before _____ all our liability under this guarantee shall cease.

This guarantee shall be valid for a period of 38 (Thirty eight) months i.e. up to 2 months beyond the expiry of contract of 36 (Thirty six) months.

Signature and Seal of the Guarantor _____ In presence of

Name and Designation _____

1.

(Name, Signature & Occupation)

Name of the Bank _____

Address _____

2.

(Name & Occupation)

Date _____

¹ Give names of all partners if the Consultants is a Joint Venture.

**Appendix J: Form of Bank Guarantee for Advance Payments
(Reference Clause 6.4(a) of Contract)**

(To be stamped in accordance with Stamp Act, if any, of the country of issuing bank)

Ref: _____ Bank Guarantee: _____

Date: _____

Dear Sir,

In consideration of M/s. _____ (hereinafter referred as the "Client", which expression shall, unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to M/s. _____ (herein after referred to as the "Consultant" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns), a contract by issue of client's Contract Agreement No. _____ dated _____ and the same having been unequivocally accepted by the Consultant, resulting in a Contract valued at _____ for _____ Contract (hereinafter called the "Contract")

(scope of work)

and the Client having agreed to make an interest bearing advance payment to the Consultant for performance of the above Contract amounting to (in words and figures) as an advance against Bank Guarantee to be furnished by the Consultant.

We _____ (Name of the Bank) having its Head Office at _____ (hereinafter referred to as the Bank), which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators executors and assigns) do hereby guarantee and undertake to pay the client immediately on demand any or, all monies payable by the Consultant to the extent of _____ - as aforesaid at any time upto _____ @ _____ without any demur, reservation, contest, recourse or protest and/or without any reference to the consultant. Any such demand made by the client on the Bank shall be conclusive and binding notwithstanding any difference between the Client and the Consultant or any dispute pending before any Court, Tribunal, Arbitrator or any other Authority. we agree that the Guarantee herein contained shall be irrevocable and shall continue to be enforceable till the Client discharges this guarantee.

The Client shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee, from time to time to vary the advance or to extend the time for performance of the contract by the Consultant. The Client shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Client and to exercise the same at any time in any manner, and either to enforce or to forebear to enforce any covenants, contained or implied, in the Contract between the Client and the Consultant any other course or remedy or security available to the Client. The bank shall not be relieved of its obligations under these presents by any exercise by the Client of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or

forbearance or other acts of omission or commission on the part of the Client or any other indulgence shown by the Client or by any other matter or thing whatsoever which under law would but for this provision have the effect of relieving the Bank.

The Bank also agrees that the Client at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Consultant and notwithstanding any security or other guarantee that the Client may have in relation to the Consultant's liabilities.

Notwithstanding anything contained herein above our liability under this guarantee is limited to _____ and it shall remain in force upto and including

_____ and

shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s. _____ on whose behalf this guarantee has been given.

Dated this _____ day of
_____ 200_____ at _____

WITNESS

(Signature)

(Name)
(Name)

(Official Address)

Designation (with Bank stamp)

Attorney as per Power of

Attorney No.

Dated

Strike out, whichever is not applicable.

Note 1: The stamp papers of appropriate value shall be purchased in the name of bank who issues the "Bank Guarantee".

Note 2: The bank guarantee shall be from a Nationalized Bank/Schedule Bank counter guaranteed by its branch at Bhubaneswar.

Appendix K

Letter of invitation

Appendix L

Letter of Award

Appendix M

Minutes of pre-bid meeting

Appendix-N**Memorandum of Understanding****between**

and

Whereas Member Secretary, OWSSB, Bhubaneswar (hereinafter called Authority) has invited proposal for appointment of Authority's Engineer for of Town (Name of project) hereinafter called the Project.

And

Whereas _____ (Lead Partner) and _____ JV partner/s have agreed to form a Joint Venture to provide the said services to Authority as Authority's Engineer; and

Now, therefore, it is hereby agreed by and on behalf of the partners as follows:

- (i) _____ will be the lead partner and _____ will be the other JV partner/s.
- (ii) _____ (lead partner) shall be the in charge of overall administration of contract and shall be authorised representative of all JV partners for conducting all business for and on behalf of the JV during the bidding process and subsequently, represent the joint venture for and on behalf of the JV for all contractual matters for dealing with the Authority /EPC Contractor if Consultancy work is awarded to JV.
- (iii) All JV partners do hereby undertake to be jointly and severely responsible for all the obligation and liabilities relating to the consultancy work and in accordance with the Terms of Reference of the Request for Proposal for the Consultancy Services.
- (iv) Subsequently, if the JV is selected to provide the desired consultancy services, a detailed MOU indicating the specific project inputs and role of each partner/s along with percentage sharing of cost of services shall be submitted to Authority (Consultant may submit the detailed MOU along with percentage sharing of cost at the time of bidding also).

For _____ (Name of Lead partner)

Managing Director/Head of the Firm
Address

For _____ (Name of JV partner/s)

Managing Directors/Head of the Firm
Address

PROCEDURE UNDER E-TENDERING

Authority's Engineer services for -----in the States of Odisha on Engineering, Procurement and Construction (EPC) mode.

INSTRUCTIONS TO APPLICANTS

DEFINITIONS

- a) **Tender portal:** The E-Procurement Portal of Government of Odisha introduced for the process of E-Tendering which can be accessed on <https://www.tendersorissa.gov.in/> [https://tendersodisha.gov.in.](https://tendersodisha.gov.in/)
- b) Use of valid Digital Signature Certificate of appropriate class (Class II or class III) issued from registered certifying authorities (CA) as stipulated by Controller of Certifying Authorities (CCA), Government of India such as n-Code, Sify, TCS, MTNL, e-Mudhra is mandatory for all users.
- c) For all purpose, the server time displayed in the e-Procurement portal shall be the time to be followed by all the users.

Words in capital and not defined in this document shall have the same meaning as in the Request for Proposal (“RFP”).

1. PARTICIPATION IN BID:

- 1.1 **PORTAL REGISTRATION:** The Contractor/Bidder intending to participate in the bid is required to register in the portal using his/her active personal/official e-mail ID as his/her Login ID and attach his/her valid Digital signature certificate (DSC) to his/her unique Login ID. He / She has to submit the relevant information as asked for about the firm/contractor. The portal registration of the bidder/firm is to be authenticated by the State Procurement Cell after verification of original valid certificates/documents such as (i) PAN and (ii) Registration Certificate (RC) / Clearance Certificate (for procurement of goods) of the concerned bidder. The time period of validity in the portal is at par with validity of RC/ VAT Clearance. Any change of information by the bidder is to be re-authenticated by the State Procurement Cell. After successful authentication bidder can participate in the online bidding process.
- 1.2 Bidders participating through Joint Venture shall declare the authorised signatory through Memorandum of Understanding duly registered and enrol in the portal in the name and style of the Joint venture Company. It is mandatory that the DSC issued in the name of the authorised signatory is used in the portal. For participating in the tender, the authorized signatory holding Power of Attorney shall be the Digital Signatory. In case the authorized signatory holding Power of Attorney and Digital Signatory are not the same, the bid shall be considered non-responsive.
- 1.3 Any third party/company/person under a service contract for operation of e-Procurement system in the State or his/their subsidiaries or their parent

companies shall be ineligible to participate in the procurement process that are undertaken through the e-Procurement system irrespective of who operates the system.

2. **LOGGING TO THE PORTAL:** The Contractor/Bidder is required to type his/her *Login ID* and password. *The system will again ask to select the DSC and confirm it with the password of DSC as a second stage authentication.* For each login, a user's DSC will be validated against its date of validity and also against the Certificate Revocation List (CRL) of respective CAs stored in system database. The system checks the unique Login ID, password and DSC combination and authenticates the login process for use of portal.
3. **DOWNLOADING OF BID:** The bidder can download the tender of his choice and save it in his system and undertake the necessary preparatory work off-line and upload the completed tender at his convenience before the closing date and time of submission.
4. **CLARIFICATION ON BID:** The bidder may ask question related to tender online in the e-procurement portal within the period of seeking clarification. The Officer inviting the bid/ Procurement Officer-Publisher will clarify queries related to the tender.
5. **PREPARATION & SUBMISSION OF BID**
 - 5.1 Detailed RFP may be downloaded from Tender Portal for detail study and preparation of his bid and the Application may be submitted online following the instructions appearing on the screen.
 - 5.2 The following shall be the form of various documents in the Application:
 - A. **Only Electronic Form (to be uploaded on the Tender Portal)**
 - (a) Power of Attorney for signing the Application
 - (b) If applicable, the Power of Attorney for Lead Member of JV;
 - (c) Copy of Memorandum of Understanding between JV partners, if applicable.
 - (d) Copy of Memorandum of Understanding with Associate, if applicable.
 - (e) Firms credentials as per format prescribed in SECTION-3 OF RFP.
 - (f) Technical proposal as per format prescribed in SECTION-4 OF RFP
 - (g) Cost of RFP of Rs. 10,000/- (Rupees Ten thousand) and applicable GST in the form of demand draft in favour of AUTHORITY, payable at Bhubaneswar; and
 - (h) Financial proposal as per format prescribed in SECTION-5 OF RFP.
 - (i) Other documents as per requirement of RFP.
 - 5.3 The Applicant shall upload scanned copies of the documents as specified in 5.2(A) above on the Tender Portal in designated locations of Technical Proposal and Financial Proposal before 17:00 hours Indian Standard Time on the Application due date i.e. on **11-09-2017** (date to be specified).
 - 5.4 It may be noted that the scanned copies can be prepared in file format i.e. PDF and/or JPEG only. The Applicants can upload a single file of size of 5 MB only but can upload multiple files.

- 5.5 The bidder shall log on to the portal with his /her DSC and more to the desired tender for up loading the documents in appropriate place one by one simultaneously checking the documents.
 - 5.6 Bids cannot be submitted after due date and time. The bids once submitted cannot be viewed, retrieved or corrected. The Bidder should ensure correctness of the bid prior to uploading and take print out of the system generated summary of submission to confirm successful uploading of bid. The bids cannot be opened even by the OIT or the Procurement Officer Publisher/ opener before the due date and time of opening.
 - 5.7 Each process in the e-procurement is time stamped and the system can detect the time of log in of each user including the Bidder.
 - 5.8 The Bidder should ensure clarity/legibility of the document uploaded by him to the portal.
 - 5.9 The system shall require all the mandatory forms and fields filled up by the contractor during the process of submission of the bid/tender
 - 5.10 The bidder should check the system generated confirmation statement on the status of the submission.
 - 5.11 The Bidder should upload sufficiently ahead of the bid closure time to avoid traffic rush and failure in the network.
 - 5.12 The tender inviting officer is not responsible for any failure, malfunction or breakdown of the electronic system used during the e-procurement process.
 - 5.13 The Bidder is required to upload documents related to his eligibility criteria and qualification information and Financial Proposal duly filled in.
 - 5.14 The Bidder will not be able to submit his bid after expire of the date and time of submission of bid (server time). The date and time of bid submission shall remain unaltered even if the specified date for the submission of bids declared as a holiday for the Officer Inviting the Bid.
- 6. SIGNING OF BID:** The 'online bidder' shall digitally sign on all statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity as per IT ACT 2000. If any of the information furnished by the bidder is found to be false / fabricated / bogus, his EMD/Bid Security shall stand forfeited & his name shall be recommended for blocking of portal registration and the bidder is liable to be blacklisted.
- 7. SECURITY OF BID SUBMISSION:**
- 7.1 All bid uploaded by the Bidder to the portal will be encrypted.
 - 7.2 The encrypted Bid can only be decrypted / opened by the authorised openers on or after the due date and time.

8. RESUBMISSION AND WITHDRAWAL OF BIDS:

- 8.1 Resubmission of bid by the bidders for any number of times before the final date and time of submission is allowed.
- 8.2 Resubmission of bid shall require uploading of all documents including price bid a fresh.
- 8.3 If the bidder fails to submit his modified bids within the pre-defined time of receipt, the system shall consider only the last bid submitted.
- 8.4 The bidder should avoid submission of bid at the last moment to avoid system failure or malfunction of internet or traffic jam or power failure etc.
- 8.5 The Bidder can withdraw his bid before the closure date and time of receipt of the bid by uploading scanned copy of a letter addressing to the Procurement Officer Publisher (Officer Inviting Tender) citing reasons for withdrawal. The system shall not allow any withdrawal after expiry of the closure time of the bid.

9 OPENING OF THE BID:

- 9.1 Bid opening date and time is specified during tender creation or can be extended through corrigendum. Bids cannot be opened before the specified date & time.
- 9.2 All bid openers have to log-on to the portal to decrypt the bid submitted by the bidders.
- 9.3 The bidders & guest users can view the summary of opening of bids from any system. Contractors are not required to be present during the bid opening at the opening location if they so desire.
- 9.4 In the event of the specified date of bid opening being declared a holiday for the Officer inviting the Bid, the bids will be opened at the appointed time on the next working day.
- 9.5 Combined bid security for more than one work is not acceptable.

10. EVALUATION OF BIDS :

- 10.1 All the opened bids shall be downloaded and printed for taking up evaluation. The officer authorized to open the tender shall sign and number on each page of the documents downloaded and furnish a certificate that “the documents as available in the portal containing----- nos of pages”.
- 10.2 The bidder may be asked in writing/ online to clarify on the uploaded documents provided in the Technical Bid, if necessary, with respect to any doubts or illegible documents. The officer inviting tender may ask for any other document of historical nature during Technical evaluation of the tender. Provided in all such cases, furnishing of any document in no way alters the Bidder’s price bid. Non-submission of legible documents may render the bid non-responsive.
- 10.3 The bidders will respond in not more than 7 days of issue of the clarification letter, failing which the bid of the bidder will be evaluated on its own merit.
- 10.4 The Technical evaluation of all the bids shall be carried out as per information furnished by Bidders.
- 10.5 The Procurement Officer-Evaluators; will evaluate bid and finalize list of responsive bidders.
- 10.6 The financial bids of the technically responsive bidders shall be opened on the due

date of opening. The Procurement Officer-Openers shall log on to the system in sequence and open the financial bids.

- 10.7 The Financial Bid will be opened on the notified date & time in the presence of bidders or their authorised representative who wish to be present.
- 10.8 At the time of opening of “Financial Bid”, bidders whose technical bids were found responsive will be opened.
- 10.9 The responsive bidders’ name, bid prices will be announced.
- 10.10 Procurement Officer-Openers shall sign on each page of the downloaded Financial Proposal and the Comparative Statement and furnish a certificate to that respect.
- 10.11 Bidder can witness the principal activities and view the documents/summary reports for that particular work by logging on to the portal with his DSC from anywhere.
- 10.12 System provides an option to Procurement Officer Publisher for reconsidering the rejected bid with the approval of concern Chief Engineer / Head of Department.

11. NEGOTIATION OF BIDS:

For examination, evaluation, and comparison of bids, the officer inviting the bid may, at his discretion, ask the lowest bidder for clarification of his rates including reduction of rate on negotiation and breakdown of unit rates.

12. NOTIFICATION OF AWARD AND SIGNING OF AGREEMENT:

12.1 The Authority shall notify acceptance of the work prior to expiry of the validity period by cable, telex or facsimile or e-mail confirmed by registered letter. This letter of Acceptance will state the sum that the Authority will pay the Consultant in consideration of execution & completion of the job by the consultant as prescribed by the contract & the amount of Performance Security required to be furnished. The issue of the letter of acceptance shall be treated as closure of the Bid process and commencement of the contract.

12.2 The Consultant after furnishing the required acceptable performance security “Letter to Proceed” or “Work Order” shall be issued by the Authority.

DISCLAIMER

The Applicant must read all the instructions in the RFP and submit the same accordingly.

Annexure 1: FORM OF BID SECURITY
(BID SECURITY BANK GUARANTEE)

To

The Member Secretary,
 Orissa Water Supply & Sewerage Board,
 Satyanagar, Bhubaneswar,
 Odisha, Pin-751007.

WHEREAS _____
 [Name and address of Consultants]¹ (hereinafter called “the consultants”)
 has undertaken, in pursuance of Contract
 No. _____ dated _____ to provides
 the services on terms and conditions set forth in this Contract
 _____ [Name of contract and brief
 description of works) (hereinafter called the “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the
 Consultants shall furnish you with a Bank Guarantee by a Nationalised bank of
 India, Counter Guaranteed by its Branch at Bhubaneswar for the sum specified therein
 as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Consultants such a Bank
 Guarantee;

NOW THEREOF we hereby affirm that we are the Guarantor and
 responsible to you, on behalf of the Consultants up to a total of
 _____ [amount of Guarantee]²
 _____ [in words], such sum
 being payable in the types and proportions of currencies in which the
 Contract Price is payable, and we undertake to pay you, upon your first written
 demand and without cavil or argument, any sum or sums within the limits of
 _____ [amount of Guarantee] as aforesaid without
 your needing to prove or to show grounds or reasons for your demand for the
 sum specified therein.

We hereby waive the necessity of your demanding the said debt from the
 Consultants before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the services to be performed there under or of any of the Contract documents which may be made between you and the Consultants shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

The liability of the Bank under this Guarantee shall not be affected by any change in the constitution of the consultants or of the Bank.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs. _____ (Rupees _____) and the guarantee shall remain valid till __. Unless a claim or a demand in writing is made upon us on or before _____ all our liability under this guarantee shall cease.

The validity period of the Bank Guarantee shall not be less than 180 days (one hundred & eighty) days from the Bid due date, inclusive of claim period of 60 (sixty) days and may be extended as may be mutually agreed between the Authority & the Bidder.

Signature and Seal of the Guarantor _____ In presence of

Name and Designation _____

1.

(Name, Signature & Occupation)

Name of the Bank _____

Address _____

2.

(Name & Occupation)

Date _____

¹ Give names of all partners if the Consultants is a Joint Venture.