INTEGRATED COASTAL ZONE MANAGEMENT PROJECT

Society of Integrated Coastal Management
Ministry of Environment, Forest & Climate Change
Room No. 111, First Floor, DeenDayalAntyodayaBhavan,
CGO Complex, New Delhi
Tel: 011-24360934
Website: www.sicommoef.in

Credit NO: 4765-IN

NATIONAL COMPETITIVE BIDDING

NAME OF WORK: INFRASTRUCTURE FACILITIES, POLLUTION ABATEMENT, AND SAFETY SURVEILLANCE SERVICES FOR PILOT BEACHES IN INDIA

| PERIOD OF AVAILABILITY OF BIDDING DOCUMENT | FROM 14–02-2018 TO 05-03-2018 |
| TIME & DATE OF PRE-BID CONFERENCE | DATE 23-02-2018 TIME 1500 HOURS |
| LAST DATE AND TIME FOR RECEIPT OF BIDS | DATE 07-03-2018 TIME 1230 HOURS |
| TIME AND DATE OF OPENING OF BIDS | DATE 07-03-2018 TIME 1500 HOURS |
| PLACE OF OPENING OF BIDS | Society of Integrated Coastal Management, Room No. 111, First Floor, Deen Dayal Antyodaya Bhavan, CGO Complex, New Delhi Tel: 011-24360934 |
| OFFICER INVITING BIDS | Project Director, Society of Integrated Coastal Management, Room No. 111, First Floor, Deen Dayal Antyodaya Bhavan, CGO Complex, New Delhi Tel: 011-24360934 |
INVITATION FOR BIDS

(IFB)
GOVERNMENT OF INDIA
INTEGRATED COASTAL ZONE MANAGEMENT PROJECT
SOCIETY FOR INTEGRATED COASTAL MANAGEMENT
(SICOM)

INVITATIONS FOR BIDS (IFB)

NATIONAL COMPETITIVE BIDDING

Bid No.: NPMU/W-25 (i), (ii) & (x) Date: 14.02.2018

1. The Government of India has received a credit from the WORLD BANK towards the cost of INTEGRATED COASTAL ZONE MANAGEMENT PROJECT and intends to apply a part of the funds to cover eligible payments under the contracts for setting up world class infrastructure facilities at beaches, pollution abatement services, safety & surveillance services in line with international best practices as detailed below in the tender. Bidding will be conducted through National Competitive Bidding procedures agreed with the World Bank. Bidding is open to all eligible bidders as defined in the World Bank’s Guidelines: Procurement of Goods, Works and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, January 2011. Bidders are advised to note the clauses on eligibility (Section I Clause 4) and minimum qualification criteria (Section III – Evaluation and Qualification Criteria 2, 3 & 4 ), to qualify for the award of the contract. In addition, please refer to paragraphs 1.6 and 1.7 of the World Bank’s Guidelines setting forth the World Bank’s policy on conflict of interest.

2. Project Director (PD), SICOM, invites bids on behalf of MoEF&CC, Government of India for the ‘Infrastructure Facilities, Pollution Abatement and Safety Surveillance Services for Pilot beaches in India’ detailed in the Table-I given below.

3. Bidding documents (and additional copies) may be downloaded from the SICOM website - www.sicommoef.in free of cost. Interested bidders may obtain further information from the office of SICOM, MoEF&CC. The notice and the bid document for the work can be seen with option to download from the SICOM website www.sicommoef.in. The downloaded bid document can be submitted along with bid security. Authority will not accept the same, if any, portion of the downloaded document differs from the approved bid document available in the above-mentioned office. In such cases the bidder would be responsible for ensuring that any addenda available in web site is also downloaded & incorporated. The download
facility will be available from Dt. 14.02.2018 to Dt. 06.03.2018 upto 17.00 Hrs.

4. Bids must be accompanied by bid security (EMD) of the amount specified for the work in the table below, drawn in favour of “Society of Integrated Coastal Management”, payable at New Delhi. Bid security will have to be in any one of the forms as specified in the bidding document and shall have to be valid for 45 days beyond the validity of the bid.

5. Bids must be delivered to Project Director, SICOM, ICZM Project, Ministry of Environment Forest & Climate Change, by speed post / by hand on or before 1230 hours on 07.03.2018 and will be opened on the same day at 1500 hours, in the presence of the bidders who wish to attend. If the office happens to be closed on the date of receipt of the bids as specified, the bids will be received and opened on the next working day at the same time and venue.

6. A pre-bid meeting will be held on 23.02.2018 at 1500 hours at the office of Director, Ministry of Environment Forest & Climate Change, Room No. 615, 6th Floor, Jal Wing, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi, India-110003 to clarify the issues and to answer questions on any matter that may be raised at that stage as stated in Clause 7.4 of ‘Instructions to Bidders’ of the bidding document.

7. Other details can be seen in the bidding documents.

8. The address for communication is as under:

   (a) Name and designation of officer:
       Akash Sharma, Controller- F&A, SICOM
       Society of Integrated Coastal Management, Room No. 111, First Floor, DeenDayalAntyodayaBhavan, CGO Complex, New Delhi
       Tel: 011- 24360934

   (b) Email : proc.sicom@gmail.com
Bid Document, Project Guidelines & Specifications
for
“INFRASTRUCTURE FACILITIES, POLLUTION ABATEMENT, & SAFETY/SURVEILLANCE SERVICES FOR PILOT BEACHES OF INDIA”

(BEAMS)

Foreground:

A “Clean” beach is the primary indicator of coastal environmental quality & management. However, coastal regions in India are highly susceptible to litter accumulation. The presence of such debris not only affects the aesthetic appeal of beaches negatively but also reduces their recreational (tourism) value drastically.

In order to plan sustainable tourism and healthy coastal management, Ministry of Environment, Forest and Climate Change, Government of India have conceived a scheme viz. BEAMS (Beach Management Services) to control pollution in beaches and to aspire & achieve high international standards of cleanliness and facilities in India.

The main objective of setting up BEAMS programme is to promote sustainable development in coastal regions of India for the beach management authorities to strive to achieve high standards in four categories of:

1) Environmental Management including cleanliness, solid waste management in beaches,
2) Environmental Education
3) Safety & Security of Beachgoers.
4) Bathing Water Quality Standards,

It primarily focuses on “Beach Rejuvenation Plan” that also means development of beach infrastructure & facilities, reduction and regulations of beach littering and undertaking day to day cleaning operations in beaches.

It is also to ensure & control various types of pollutions in beaches by effective solid waste management, utilization and bring significant awareness on environment protection & sensitize beachgoers of ecosystems and biodiversity.

This bid document contains instructions to bidders, general conditions, special conditions, other important special conditions and project resource specifications with layout drawings, images and indicative maps that are detailed out in this tender. The project resource specifications are based on the scope of work.
In this tender, following pilot beaches shall be covered:

1) Shivrajpur – Distt. Dwarka, Gujarat
2) Bhogve- Distt. Sindhudurg, Maharashtra
3) Ghoghla- Diu, (UT of Daman & Diu)

The length of a beach considered is approximately 1.0 Km on an average. All the proposed infrastructure facilities may be installed and commissioned in a maximum area of 200 to 600 meters depending upon the availability of land surface area in a given beach. However, this area can vary from beach to beach and can be consulted with Nodal Officer and/or Project Manager-SICOM. All the facilities must be installed & commissioned preferably in the Centre of the beach and equal amount of area must be left on both side.

For the benefit of the bidder, an indicative sketch depicting the infrastructure set-up to be placed is attached with this tender document for a beach published in the tender.

The bidder is required to get themselves familiarize with site conditions, layout and other operating& environmental conditions before submitting their rates. Rates once quoted are final and there is no consideration for variation.

Entire work shall be carried out in consultation with Project Manager-SICOM/Nodal Officer/Local Authorities or as advised by SICOM from time to time. The bidder is advised to know the names of these in writing from the office of SICOM- MoEF& CC before commencement of work.
TABLE-I

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<th>Name of work</th>
<th>Approximate value of work (Rs.)</th>
<th>Bid Security (Rs.)</th>
<th>Period of Completion (in Months)</th>
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<tr>
<td>INFRASTRUCTURE FACILITIES, POLLUTION ABATEMENT, AND SAFETY /SURVEILLANCE SERVICES FOR PILOT BEACHES OF INDIA FOR A PERIOD OF 2 YEARS.</td>
<td>Total =Rs. 24,04,37,287/= (Without GST) (Rupees Twenty Four Crores Four Lakhs Thirty Seven Thousand Two Hundred Eighty Seven Only)</td>
<td>Rs. 48,08,746/=     (Rupees Forty Eight Lakhs Eight Thousand Seven Hundred Forty Six Only)</td>
<td>24 months (2 Years)</td>
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<td>The break up is as follows:</td>
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<tr>
<td>(1) Infrastructure Facilities =</td>
<td>Rs. 10,27,36,087/= (Rupees Ten Crores Twenty Seven Lakhs Thirty Six Thousand Eighty Seven Only)</td>
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<td>(2) Pollution Abatement Services=</td>
<td>Rs. 9,84,14,160/= (Rupees Nine Crores Eighty Four Lakhs Fourteen Thousand One Hundred Sixty Only)</td>
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<td>(3) Safety &amp; Surveillance Services=</td>
<td>Rs. 3,92,87,040/= (Rupees Three Crores Ninety Two Lakhs Eighty Seven Thousand Forty Only)</td>
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Project Director
SICOM, MoEF&CC
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PART 1 – Bidding Procedures
Section I. Instructions to Bidders

*These Instructions to Bidders shall not be part of the Contract Agreement and shall cease to have effect once the Contract is signed.*
Section 1 - Instructions to Bidders
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Section I - Instructions to Bidders

A. General

1. Scope of Bid

1.1 The Employer, as indicated in the BDS, issues this Bidding Document for the procurement of the Works as specified in Section VII (Works Requirements) & Invitation for Bids (IFB). The name, identification, and number of contracts of this bidding are specified in the BDS.

Throughout this Bidding Document:

(a) the term “in writing” means communicated in written form and delivered against receipt;

(b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular; and

(c) “day” means calendar day.

2. Source of Funds

2.1 The Government of India or the Recipient (hereinafter called “Borrower”) specified in the BDS has received/applied for financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount specified in the BDS towards the cost of the project specified in the BDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Documents are issued.

2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank, and will be subject, in all respects, to the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the Loan (or other financing) account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).

3. Corrupt and Fraudulent Practices

3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section VI.

3.2 In further pursuance of this policy, Bidders shall permit and shall cause its agents (whether declared or not), sub-contractors, sub-consultants, service providers, or suppliers and any personnel thereof,
to permit the Bank to inspect all accounts, records and other
documents relating to any prequalification process, bid submission,
and contract performance (in the case of award), and to have them
audited by auditors appointed by the Bank.

4. Eligible Bidders

4.1.1 A Bidder may be a natural person, a firm that is a private entity, or a
government-owned entity—subject to ITB 4.5—or any combination
of them in the form of a joint venture, under an existing agreement,
or with the intent to constitute a legally-enforceable joint venture,
unless otherwise specified in the BDS.

4.1.2 Bids submitted by a joint venture of two or more firms as partners
when permitted as per ITB Clause 4.1.1 BDS shall comply with the
following requirements:

[a] the bid shall include all the information listed in Bidders
Qualification Forms for all the Partners. The maximum number of
members in the Joint Venture shall be as specified in the BDS;

[b] the bid and, in case of a successful bid, the Agreement, shall be
signed so as to be legally binding on all partners;

[c] one of the partners shall be nominated as being in charge, and this
authorization shall be evidenced by submitting a power of attorney
signed by legally authorized signatories of all the partners;

[d] the partner in charge shall be authorized to incur liabilities and
receive instructions for and on behalf of any and all partners of the
joint venture and the entire execution of the contract, including
payment, shall be done exclusively with the partner in charge;

[e] all partners of the joint venture shall be liable jointly and severally
for the execution of the contract in accordance with the contract
terms, and a statement to this effect shall be included in the
authorization mentioned under (c) above, as well as in the bid and in
the Agreement [in case of a successful bid];

[f] The joint venture agreement should indicate precisely the role of all
members of JV in respect of planning, design, construction
equipment, key personnel, work execution, and financing of the
project. All members of JV should have active participation in the
execution during the currency of the contract. This should not be
varied/modified subsequently without prior approval of the
Employer;

[g] The joint venture agreement should be registered in place specified in
BDS so as to be legally valid and binding on partners; and

[h] a copy of the Joint Venture Agreement entered into by the partners
shall be submitted with the bid. Alternatively, a Letter of Intent to
execute a joint Venture Agreement in the event of a successful bid
shall be signed by all partners and submitted with the bid, together
with a copy of the proposed Agreement.
A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:

- directly or indirectly controls, is controlled by or is under common control with another Bidder; or
- receives or has received any direct or indirect subsidy from another Bidder; or
- has the same legal representative as another Bidder; or
- has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
- participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which such Bidder is involved. However, this does not limit the inclusion of the same subcontractor in more than one bid; or
- any of its affiliates has been hired (or is proposed to be hired) by the Employer or Borrower as Engineer for the Contract implementation; or
- would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
- has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the contract.

4.3 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.7. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or
association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.

4.4 A Bidder that has been sanctioned by the Bank in accordance with the above ITB 3.1, including in accordance with the Bank’s Guidelines on Preventing and Combating Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants ("Anti-Corruption Guidelines"), shall be ineligible to be prequalified for, bid for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address **specified in the BDS**.

4.5 Bidders that are Government-owned enterprises or institutions in the Employer’s Country may participate only if they can establish that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not dependent agencies of the Employer. To be eligible, a government-owned enterprise or institution shall establish to the Bank’s satisfaction, through all relevant documents, including its Charter and other information the Bank may request, that it: (i) is a legal entity separate from the government (ii) does not currently receive substantial subsidies or budget support; (iii) operates like any commercial enterprise, and, inter alia, is not obliged to pass on its surplus to the government, can acquire rights and liabilities, borrow funds and be liable for repayment of its debts, and can be declared bankrupt; and (iv) is not bidding for a contract to be awarded by the department or agency of the government which under their applicable laws or regulations is the reporting or supervisory authority of the enterprise or has the ability to exercise influence or control over the enterprise or institution.

4.6 **DELETED**

4.7 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

4.8 Bidder shall provide such evidence of eligibility satisfactory to the Employer, as the Employer shall reasonably request.

4.9 In case a prequalification process has been conducted prior to the
bidding process, this bidding is open only to prequalified Bidders.

5. Eligible Materials, Equipment and Services

5.1 The materials, equipment and services to be supplied under the Contract and financed by the Bank may have their origin in any country subject to the restrictions specified in Section V, Eligible Countries, and all expenditures under the Contract will not contravene such restrictions. At the Employer’s request, Bidders may be required to provide evidence of the origin of materials, equipment and services.

B. Contents of Bidding Document

6. Sections of Bidding Document

6.1 The Bidding Document consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8.

PART 1 Bidding Procedures
- Section I - Instructions to Bidders (ITB)
- Section II - Bid Data Sheet (BDS)
- Section III - Evaluation and Qualification Criteria
- Section IV - Bidding Forms
- Section V - Eligible Countries
- Section VI - Bank Policy-Corrupt and Fraudulent Practices

PART 2 Work’s Requirements
- Section VII - Works Requirements

PART 3 Conditions of Contract and Contract Forms
- Section VIII - General Conditions of Contract (GCC)
- Section IX - Particular Conditions of Contract (PCC)
- Section X - Contract Forms

6.2 DELETED.

6.3 Unless obtained directly from the Employer, the Employer is not responsible for the completeness of the Bidding Documents, responses to requests for clarification, the minutes of the pre-Bid meeting (if any), or Addenda to the Bidding Documents in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Employer shall prevail.

6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its bid all information and documentation as is required by the Bidding Documents.
7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting

7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer’s address indicated in the BDS or raise his inquiries during the pre-bid meeting if provided for in accordance with ITB 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of bids, within a period specified in the BDS. The Employer shall forward copies of its response to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so specified in the BDS, the Employer shall also promptly publish its response at the web page identified in the BDS. (Where electronic downloading of bid document is permitted, the Employer will upload the addenda on the website and it will be the responsibility of the bidders [who downloaded the bidding documents] to search the website for any addenda). Should the clarification result in changes to the essential elements of the Bidding Documents, the Employer shall amend the Bidding Documents following the procedure under ITB 8 and ITB 22.2.

7.2 The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself, on its own risk and responsibility, all information that may be necessary for preparing the bid and entering into a contract for construction of the Works & provision of specified services. The costs of visiting the Site shall be at the Bidder’s own expense.

7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

7.4 If so specified in the BDS, the Bidder’s designated representative is invited to attend a pre-bid meeting. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

7.5 The Bidder is requested, to submit any questions in writing, to reach the Employer not later than one week before the meeting.

7.6 Minutes of the pre-bid meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Documents in accordance with ITB 6.3. Any modification to the Bidding Documents that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the
minutes of the pre-bid meeting.

7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.

8. Amendment of Bidding Document

8.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Documents by issuing addenda.

8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3. The Employer shall also promptly publish the addendum on the Employer’s web page in accordance with ITB 7.1.

8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB 22.2

C. Preparation of Bids

9. Cost of Bidding

9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

10. Language of Bid

10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in English.

11. Documents Comprising the Bid

11.1 The Bid shall comprise the following:

(a) Letter of Bid;

(b) completed Schedules, in accordance with ITB 12 and 14, as specified in BDS;

(c) Bid Security, in accordance with ITB 19;

(d) alternative bids, if permissible, in accordance with ITB 13;

(e) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;

(f) documentary evidence in accordance with ITB 17 establishing the Bidder’s qualifications to perform the contract;

(g) Technical Proposal in accordance with ITB 16;

(h) Construction methodology as detailed in Para 1.1 of Section III Evaluation Criteria; and
(i) Any other document required in the BDS.

11.2 In addition to the requirements under ITB 11.1, bids submitted by a JV (where permitted) shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement.

11.3 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

12. Letter of Bid and Schedules

12.1 The Letter of Bid, Schedules, and all documents listed under Clause 11, shall be prepared using the relevant forms in Section IV (Bidding Forms), if so provided. The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

13.1 Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic technical design as indicated in the drawing and specifications. Alternatives will not be considered.

14. Bid Prices and Discounts

14.1 The prices and discounts (including any price reduction) quoted by the Bidder in the Letter of Bid (TABLE-II) and in the Schedules shall conform to the requirements specified below.

14.2 The Bidder shall submit a bid for the whole of the works described in ITB 1.1 by filling in prices for all items of the Works (both in figures and words), as identified in Section IV, Bidding Forms along with the total bid price (both in figures and words) as given in TABLE-II (Price Bid). The Bidder shall fill in rates and prices for each item of the Works described in the Price Bid (Table-II). Items against which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates for other items and prices in the Bill of Quantities. Corrections if any in the bid shall be made by crossing out, initialing, dating and rewriting.

14.3 The price to be quoted in the Letter of Bid (Price Bid) in accordance with ITB 12.1, shall be the total price of the Bid, excluding any discounts offered.

14.4 Unconditional discounts, if any, and the methodology for their application shall be quoted in the Letter of Bid, in accordance with ITB 12.1.

14.5 Unless otherwise provided in the BDS and the Conditions of Contract, the prices quoted by the Bidder shall be fixed
14.6 If so indicated in ITB 1.1, bids are invited for individual contracts or for any combination of lots/contracts (packages). Bidders wishing to offer any price reduction for the award of more than one contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual contracts within the package. Price reductions or discounts shall be submitted in accordance with ITB 14.4, provided the bids for all lots/contracts are submitted and opened at the same time.

14.7 All duties, taxes, and other levies payable by the contractor under the contract, or for any other cause, shall be included in the rates and prices and the total bid price submitted by the Bidder.

14.8 Bidders may like to ascertain availability of excise/custom duty exemption benefits available in India to the contracts financed under World Bank loan/credits. They are solely responsible for obtaining such benefits which they have considered in their bid and in case of failure to receive such benefits for reasons whatsoever, the Employer will not compensate the bidder (contractor). The bidder shall furnish along with his bid a declaration to this effect in the Declaration Format provided in Section IV of the bidding documents.

Where the bidder has quoted taking into account such benefits, it must give all information required for issue of certificates in terms of the Government of India Central Excise Notification and Customs Notification as per form stipulated in section IV. In case the bidder has not provided the required information or has indicated to be furnished later on in the Declaration Format, the same shall be construed that the goods/construction equipment for which certificate is required is Nil.

To the extent the Employer determines the quantity indicated therein are reasonable keeping in view the quantities in bill of quantities, construction program and methodology, the certificates will be issued within 60 days of signing of the contract and no subsequent changes will be permitted. In case of materials pertaining to Variation items and quantities the certificate shall be issued only on request from the contractor when in need and duly certified by the Engineer.

No certificate will be issued for items where no quantity/capacity of equipment is indicated in the statement.

If the bidder has considered the customs/excise duty exemption for materials/construction equipment to be bought for the work, the bidder shall confirm and certify that the Employer will not be required to undertake any responsibilities of the Government of India Scheme or the said exemptions being available during the contract execution, except issuing the required certificate. The bids which do not conform to the above provisions or any condition by the bidder which makes the bid subject to availability of customs/excise duty exemption for materials/construction equipment or compensation on withdrawal of any variations to the said exemptions will be treated as non-responsive
and rejected.

Any delay in procurement of the construction equipment/machinery/goods as a result of the above shall not be a cause for granting any extension of time.

15. Currencies of Bid and Payment

15.1 The unit rates and prices shall be quoted by the Bidder entirely in Indian Rupees.

16. Documents Comprising the Technical Proposal

16.1 The Bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as per details stipulated in Section IV (Bidding Forms), in sufficient detail to demonstrate the adequacy of the Bidders’ proposal to meet the work requirements and the completion time.

17. Documents Establishing the Qualifications of the Bidder

17.1 To establish its qualifications to perform the Contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the complete information as requested in the corresponding information sheets included in Section IV (Bidding Forms).

18. Period of Validity of Bids

18.1 Bids shall remain valid for 90 days or for a period specified in the BDS after the bid submission deadline date prescribed by the Employer. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.

18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Employer may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a bid security is requested in accordance with ITB 19, it shall also be extended up to forty five (45) days beyond the deadline of the extended validity period. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request shall not be required or permitted to modify its bid.

18.3 If the award is delayed beyond the expiry of the initial bid validity, the Contract price shall be determined as follows:

(a) In the case of fixed price contracts, the Contract price shall be the bid price adjusted by the factor specified in the BDS.

(b) In the case of adjustable price contracts, no adjustment shall be made.

(c) In any case, bid evaluation shall be based on the bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

19.1 Unless otherwise specified in the BDS, the Bidder shall furnish as part of its bid, in original form, a bid security for the amount shown in BDS for this particular work.
19.2 The bid security shall be a demand guarantee, at the Bidder’s option, in any of the following forms:

(a) an unconditional bank guarantee, issued by a Nationalized/Scheduled bank located in India;

(b) an irrevocable letter of credit issued by a Nationalized or Scheduled bank located in India;

(c) a cashier’s or certified check; or demand draft from a Nationalized or Scheduled Bank located in India;

(d) another security indicated in the BDS.

In case of a bank guarantee, the bid security shall be submitted using the Bid Security form included in the Section IV (Bidding Forms). The form must include the complete name of the Bidder. The bid security shall be valid for forty five (45) days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 18.2.

19.3 Any bid not accompanied by a substantially responsive Bid Security shall be rejected by the Employer as non-responsive.

19.4 If a bid security is specified pursuant to ITB 19.1, the bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder’s signing the contract and furnishing of the performance security pursuant to ITB 42.

19.5 If a bid security is specified pursuant to ITB 19.1, the bid security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required performance security.

19.6 The bid security may be forfeited:

(a) if a Bidder withdraws/modify/substitutes its bid during the period of bid validity specified by the Bidder on the Letter of Bid, or any extension thereto provided by the Bidder; or

(b) if the Bidder does not accept the correction of its Bid Price pursuant to ITB 31 or

(c) if the successful Bidder fails to:

   (i) sign the Contract in accordance with ITB 41; or

   (ii) furnish a performance security in accordance with ITB 42.

19.7 The Bid Security of a JV shall be in the name of the JV that submits the bid. If the JV has not been constituted into a legally-enforceable JV at the time of bidding, the Bid Security shall be in the names of all future partners as named in the letter of intent mentioned in ITB
20. Format and Signing of Bid

20.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB 11 and clearly mark it “ORIGINAL”. Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked “Alternative”. In addition, the Bidder shall submit copies of the bid in the number specified in the BDS, and clearly mark each of them “COPY.” In the event of any discrepancy between the original and the copies, the original shall prevail.

20.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid where entries or amendments have been made shall be signed or initialled by the person signing the bid.

20.3 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

20.4 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the person signing the bid.

D. Submission and Opening of Bids

21. Sealing and Marking of Bids

21.1 Bidders may always submit their bids by mail or by hand. When so specified in the BDS, bidders shall have the option of submitting their bids electronically. Procedures for submission, sealing and marking are as follows:

(a) Bidders submitting bids by mail or by hand shall enclose the original and each copy of the Bid including alternatives if permitted, in separate sealed envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” These envelopes containing the original and the copies shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB sub-Clauses 21.2 and 21.3.

(b) Bidders submitting bids electronically shall follow the electronic bid submission procedures specified in the BDS.

21.2 The inner and outer envelopes shall:

(a) bear the name and address of the Bidder;
(b) be addressed to the Employer as provided in the BDS pursuant to ITB 22.1;

(c) bear the specific identification of this bidding process indicated in accordance with ITB 1.1; and

(d) bear a warning not to open before the time and date for bid opening.

21.3 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the bid.

22. Deadline for Submission of Bids

22.1 Bids must be received by the Employer at the address and no later than the date and time indicated in the BDS. Bidders submitting bids electronically (when permitted) shall follow the electronic bid submission procedures specified in the BDS.

The Employer may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document in accordance with ITB 8, in which case all rights and obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

23.1 The Employer shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB 22. Any bid received by the Employer after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

24.1 A Bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 20.2, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:

(a) prepared and submitted in accordance with ITB 20 and ITB 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” “MODIFICATION;” and

(b) received by the Employer prior to the deadline prescribed for submission of bids, in accordance with ITB 22.

Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.

24.3 No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof. This will result in the forfeiture of the
Bid Security pursuant to ITB 19.6.

25. Bid Opening

25.1 Except in the cases specified in ITB 23 and 24, the Employer shall publicly open and read out in accordance with ITB 25.3 all bids received by the deadline, at the date, time and place specified in the BDS in the presence of Bidders’ designated representatives and anyone who choose to attend. Any specific electronic bid opening procedures required, if electronic bidding is permitted in accordance with ITB 21.1, shall be as specified in the BDS.

25.2 First, envelopes marked “WITHDRAWAL” shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked “SUBSTITUTION” shall be opened and read out and exchanged with the corresponding bid being substituted, and the substituted bid shall not be opened, but returned to the Bidder. No bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at bid opening. Envelopes marked “MODIFICATION” shall be opened and read out with the corresponding bid. No bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at bid opening. Only envelopes that are opened and read out at bid opening shall be considered further.

25.3 All other envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification, the total Bid Price, per lot (contract) if applicable, including any discounts and alternative bids, the presence or absence of a bid security; and any other details as the Employer may consider appropriate. Only discounts and alternatives and modifications read out at bid opening shall be considered for evaluation. The Letter of Bid and the Bill of Quantities are to be initialled by representatives of the Employer attending bid opening in the manner specified in the BDS. The Employer shall neither discuss the merits of any bid nor reject any bid at bid opening (except for late bids, in accordance with ITB 23.1).

25.4 The Employer shall prepare a record of the bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; the Bid Price, per contract if applicable, including any discounts and alternative bids; and the presence or absence of a bid security, if one was required. The Bidders’ representatives who are present shall be requested to sign the record. The omission of a Bidder’s signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.
E. Evaluation and Comparison of Bids

26. Confidentiality

26.1 Information relating to the examination, evaluation, comparison, and postqualification of bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders in accordance with ITB 40.

26.2 Any attempt by a Bidder to influence the Employer in the evaluation of the bids or Contract award decisions may result in the rejection of its bid.

26.3 Notwithstanding ITB 26.2, from the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Employer on any matter related to the bidding process, it may do so in writing.

27. Clarification of Bids

27.1 To assist in the examination, evaluation, and comparison of the bids, and qualification of the Bidders, the Employer may, at its discretion, ask any Bidder for a clarification of its bid including breakdown of unit rates. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The Employer’s request for clarification and the response shall be in writing. No change including any voluntary increase or decrease in the prices or substance of the bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids, in accordance with ITB 31.

27.2 If a Bidder does not provide clarifications of its bid by the date and time set in the Employer’s request for clarification, its bid may be rejected.

28. Deviations, Reservations, and Omissions

28.1 During the evaluation of bids, the following definitions apply:

(a) “Deviation” is a departure from the requirements specified in the Bidding Document;

(b) “Reservation” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and

(c) “Omission” is the failure to submit part or all of the information or documentation required in the Bidding Document.

29. Determination of Responsiveness

29.1 The Employer’s determination of a bid’s responsiveness is to be based on the contents of the bid itself, as defined in ITB11.

29.2 A substantially responsive bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,
(a) if accepted, would:

(i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or

(ii) limit in any substantial way, inconsistent with the Bidding Document, the Employer’s rights or the Bidder’s obligations under the proposed Contract; or

(b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive bids.

29.3 The Employer shall examine the technical aspects of the bid submitted in accordance with ITB 16, Technical Proposal, in particular, to confirm that all requirements of Section VII (Work’s Requirements) have been met without any material deviation, reservations or omissions.

29.4 If a bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation or reservations.

29.5 In case where a prequalification process has been undertaken for the contracts for which these Bidding Documents have been issued, the purchaser will ensure that each bid is from a prequalified bidder.

### 30. Nonconformities, Errors, and Omissions

30.1 Provided that a bid is substantially responsive, the Employer may waive any non-conformities in the bid which do not constitute a material deviation, reservation or omission.

30.2 Provided that a bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price or substance of the bid. Failure of the Bidder to comply with the request may result in the rejection of its bid.

30.3 Provided that a bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price may be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The adjustment shall be made using the methods specified in Section III (Evaluation and Qualification Criteria).

### 31. Correction of Arithmetical

31.1 Provided that the bid is substantially responsive, the Employer shall correct arithmetical errors on the following basis:
Errors

(a) only for unit price contracts, if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.

(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

31.2 If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors in accordance with ITB 31.1, its bid shall be declared non-responsive and the Bid Security may be forfeited in accordance with ITB Sub-Clause 19.6.

32. Conversion to Single Currency

32.1 The currency of the bid shall be Indian Rupees only.

33. Margin of Preference

33.1 DELETED.

34. Sub-contractors

34.1 Unless otherwise stated in the BDS, the Employer does not intend to execute any specific elements of the Works by sub-contractors selected in advance by the Employer.

34.2 The Employer may permit subcontracting for certain specialized works as indicated in Section III. When subcontracting is permitted by the Employer, the specialized sub-contractor’s experience shall be considered for evaluation. Section III describes the qualification criteria for sub-contractors.

34.3 Bidders may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified in the BDS.

35. Evaluation of Bids

35.1 The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.

35.2 To evaluate a bid, the Employer shall consider the following:

(a) the bid price in the Summary of Bill of Quantities/itemised prices/rates given in the Table-II;

(b) price adjustment for correction of arithmetic errors in accordance with ITB 31.1;

(c) price adjustment due to discounts offered in accordance with ITB 14.4;
(d) Not Used,

(e) price adjustment for nonconformities in accordance with ITB 30.3;

(f) The additional evaluation factors as specified in Section III (Evaluation and Qualification Criteria);

35.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

35.4 DELETED.

35.5 If the bid of the successful bidder, which results in the lowest Evaluated Bid Price, is seriously unbalanced, front loaded or substantially below updated estimates in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses (with breakdown of unit rates) for any or all items of the Bill of Quantities, to provide justification for the quoted prices and to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, taking into consideration the schedule of estimated contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

36. Comparison of Bids

36.1 The Employer shall compare the evaluated prices of all substantially responsive bids established in accordance with ITB 35.2 to determine the lowest evaluated bid.

37. Qualification of the Bidder

37.1 The Employer shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid meets the qualifying criteria specified in Section III (Evaluation and Qualification Criteria). If a prequalification process was undertaken for the Contract(s) for which these Bidding Documents were issued, the Purchaser will determine in the manner described above that no material changes have occurred after the prequalification that negatively affect the ability of the Bidder that has submitted the lowest evaluated bid to perform the Contract.

(Note- In cases of prequalification Employer shall verify to its satisfaction whether the selected Bidder continues to meet the criteria specified at the time of prequalification)

37.2 The determination shall be based upon an examination of the documentary evidence of the Bidder’s qualifications submitted by the Bidder, pursuant to ITB 17.1.
37.3 An affirmative determination of qualification shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Employer shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder’s qualifications to perform satisfactorily.

38. Employer’s Right to Accept Any Bid, and to Reject Any or All Bids

38.1 The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.

F. Award of Contract

39. Award Criteria

39.1 Subject to ITB 37.1, the Employer shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated and technically competent bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

40. Notification of Award

40.1 Prior to the expiration of the period of bid validity, the Employer shall notify the successful Bidder, in writing, via the Letter of Acceptance included in the Contract Forms, that its bid has been accepted.

40.2 Until a formal contract is prepared and executed, the notification of award shall constitute a binding Contract.

41. Signing of Contract, Publication of award and Recourse to unsuccessful Bidders

41.1 The Contract Agreement shall incorporate all agreements between the Employer and the successful Bidder. It shall be kept ready in the office of the Employer for the signature of the Employer and the successful Bidder, within 21 days following the date of Letter of acceptance. Within 21 days of receipt of Letter of acceptance, the successful Bidder shall sign the Agreement and furnish the performance security in accordance with ITB Clause 42 and revised construction methodology. If the successful bidder is a JV, it shall also furnish the JV agreement duly signed by all the partners, if it had submitted only a letter of intent to execute the JV agreement along with the bid.

41.2 The Employer within 3 weeks of issue of notification of award shall publish in a national website (http://tenders.gov.in) the results identifying the bid and lot numbers and the following information: (i) name of each bidder who submitted the bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the winning bidder, and the price it offered, as well as the duration and summary scope of the contract awarded.
41.3 The Employer shall promptly respond in writing to any unsuccessful Bidder who, after publication of contract award, requests the Employer in writing to explain on which grounds its bid was not selected.

42. Performance Security

42.1 Within twenty-one (21) days of the receipt of notification of award from the Employer, the successful Bidder shall furnish the performance security in accordance with the conditions of contract, subject to ITB 35.5, using for that purpose the Performance Security Form included in Section X (Contract Forms).

42.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security. In that event the Employer may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily.

42.3 Upon the successful Bidder’s signing the Agreement and furnishing of the Performance Security pursuant to ITB Clause 42.1, the Employer shall promptly notify the name of the winning bidder to each unsuccessful bidder and shall discharge the Bid Securities of the bidders pursuant to ITB Clause 19.4 and 19.5.

43. Adjudicator or Dispute Review Expert

43.1 The Employer proposes the person named in the BDS to be appointed as Adjudicator (or Dispute Review Expert) under the Contract, at the daily rate specified in the BDS, plus reimbursable expenses (actual boarding, lodging, travel and other incidental expenses). If the Bidder disagrees with this proposal, the Bidder should so state in Letter of Bid. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator [or Disputes Review Expert] proposed by the Bidder, the Employer will request the Appointing Authority designated in the Particular Conditions of Contract (PCC) pursuant to Clause 23.1 of the General Conditions of Contract (GCC), to appoint the Adjudicator [or Disputes Review Expert].
Section II - Bid Data Sheet (BDS)

A. Introduction

<table>
<thead>
<tr>
<th>ITB 1.1</th>
<th>The Employer is:</th>
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<tbody>
<tr>
<td></td>
<td>Project Director, SICOM, ICZM Project, Ministry of Environment Forest &amp; Climate Change, Room No. III, 1st Floor, Pt. DeenDayalAntyodayaBhawan, CGO Complex, Lodhi Road, New Delhi-110003.</td>
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<th>ITB 1.1</th>
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<tr>
<td></td>
<td>INFRASTRUCTURE FACILITIES, POLLUTION ABATEMENT, AND SAFETY SURVEILLANCE SERVICES FOR PILOT BEACHES IN INDIA under BEAMS programme at</td>
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<td></td>
<td>1) Shivrajpur – Distt. Dwarka, Gujarat</td>
</tr>
<tr>
<td></td>
<td>2) Bhogve- Distt. Sindhudurg, Maharashtra</td>
</tr>
<tr>
<td></td>
<td>3) Ghoghla- Diu, (UT of Daman &amp; Diu)</td>
</tr>
</tbody>
</table>

|         | The identification number of the bidding process is: NPMU/W-25 (i), (ii) & (x) |
|         | The number and identification of Package comprising this bidding process is: 1 |
|         | Bids have been invited for a group of beaches, as detailed in the IFB. |
|         | Bidders intending to participate in bidding for package-1 described in the IFB shall submit single bid for the package using this bidding documents. |

| ITB 2.1 | The Borrower is Government of India. The Employer is Project Director, SICOM |

| ITB 2.1 | The name of the Project is, Integrated Coastal Zone Management Project, India |

| ITB 2.1 | Loan or Financing Agreement amount : US$ 221 Million |

| ITB 4.1 | Bids from “Joint Venture” is not allowed/acceptable. |
|         | Maximum number of members in the JV shall be: Not Applicable |

| ITB 4.4 | A list of debarred firms and individuals is available on the Bank’s external website: http://www.worldbank.org/debarr. |
### B. Bidding Documents

| ITB 7.1 | For **clarification purposes** only, the Employer’s address is:  
Attention: Controller –F&A, SICOM, ICZM Project,  
Ministry of Environment Forest & Climate Change,  
Room No. III, 1st Floor, Pt. DeenDayalAntyodayaBhawan,  
CGO Complex, Lodhi Road, New Delhi-110003,  
Country: India  
Telephone: **011-24360934**  
Electronic mail address: **proc.sicom@gmail.com**  
Requests for clarification should be received by the Employer no later than 14 days prior to deadline for submission of bids |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ITB 7.1</td>
<td>Web page: <strong><a href="http://www.sicommoef.in">www.sicommoef.in</a></strong></td>
</tr>
</tbody>
</table>
| ITB 7.4  | A Pre-Bid meeting **shall** take place at the following date, time and place:  
**DATE** 23-02-2018  
**TIME** 1500 HOURS  
**Place:**  
Office of Director, Ministry of Environment Forest & Climate Change,  
Room No. 615, 6th Floor, Jal Wing, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi, India-110003 |
### C. Preparation of Bids

<table>
<thead>
<tr>
<th>ITB 10.1</th>
<th>The language of the bid is English</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITB 11.1</td>
<td>The following schedules shall be submitted with the bid:</td>
</tr>
<tr>
<td></td>
<td>(a) Letter of Bid;</td>
</tr>
<tr>
<td></td>
<td>(b) completed Schedules, in accordance with ITB 12 and 14</td>
</tr>
<tr>
<td></td>
<td>(c) Bid Security, in accordance with ITB 19;</td>
</tr>
<tr>
<td></td>
<td>(d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;</td>
</tr>
<tr>
<td></td>
<td>(e) documentary evidence in accordance with ITB 17 establishing the Bidder’s qualifications to perform the contract;</td>
</tr>
<tr>
<td></td>
<td>(f) Technical Proposal in accordance with ITB 16;</td>
</tr>
<tr>
<td></td>
<td>(g) Construction &amp; Facility Management methodology as detailed in Para 1.1 of Section III Evaluation Criteria; and</td>
</tr>
<tr>
<td></td>
<td>(h) Priced Bill of Quantities</td>
</tr>
</tbody>
</table>

| ITP 11.1 (i) | The Bidder shall submit the following additional documents in its Bid: |
|              | **Code of Conduct (ESHS)** |
|              | The Bidder shall submit its Code of Conduct that will apply to its employees and subcontractors, to ensure compliance with its Environmental, Social, Health and Safety (ESHS) obligations under the contract. [Note: Complete and include the risks to be addressed by the Code in accordance with Section VII-Works’ Requirements, e.g. Risks associated with: labor influx, spread of communicable diseases, sexual harassment, gender based violence, illicit behavior and crime, and maintaining a safe environment etc.]

In addition, the Bidder shall detail how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.

The Contractor shall be required to implement the agreed Code of Conduct upon contract award.

|              | **Management Strategies and Implementation Plans (MSIP) to manage the (ESHS) risks** |
|              | The Bidder shall submit Management Strategies and Implementation Plans (MSIP) to manage the following key Environmental, Social, Health and Safety (ESHS) risks. |

[Note: insert name of plan and specific risk/s];
• [e.g. Traffic Management Plan to ensure safety of local communities from construction traffic];
• [e.g. Water Resource Protection Plan to prevent contamination of drinking water];
• [e.g. Boundary Marking and Protection Strategy for mobilization and construction to prevent offsite adverse impacts];
• [e.g. Strategy for obtaining Consents/Permits prior to the start of relevant works such as opening a quarry or borrow pit].

The Contractor shall be required to submit for approval, and subsequently implement, the Contractor’s Environment and Social Management Plan (C-ESMP), in accordance with the Particular Conditions of Contract Sub-Clause 16.2, that includes the agreed Management Strategies and Implementation Plans described here.

[Note: The extent and scope of this requirements should reflect the significant ESHS risks or requirements set out in Section VII as advised by the Environmental/Social specialist/s. The key risks to be addressed by the Bidder should be identified by Environmental/Social specialist/s, for example, from the Environmental and Social Impact Assessment (ESIA), Environmental and Social Management Plan (ESMP), Resettlement Action Plan (RAP), and/or Consent Conditions (regulatory authority conditions attached to any permits or approvals for the project), up to a maximum of four. The risks may arise during mobilization or construction phases, and may include construction traffic impacts on the community, pollution of drinking water, depositing on private land and impacts on rare species etc. The management strategies and/or implementation plans to address these could include, as appropriate: mobilization strategy, strategy for obtaining consents/permits, traffic management plan, water resource protection plan, bio-diversity protection plan and a strategy for marking and respecting work site boundaries etc.]

| ITB 13.1 | Alternative bids shall not be permitted. |
| ITB 14.5 | The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract. The adjustment of contract price, if provided, will be done in accordance with GCC Clause 45 and the corresponding clause in the SCC section. |
| ITB 18.1 | The bid validity period shall be 90 days. |
| ITB 18.3 (a) | The bid price shall be adjusted by the following factor(s):
No adjustment. This bid is a “Fixed” price bid. |
| ITB 19.1 | The Bidder shall furnish a bid security in the amount of Rs. 48,08,746/= |
| ITB 19.3 (d) | Other types of acceptable securities: Fixed Deposit/Time Deposit certificate issued by a Nationalized or Scheduled Bank located in India for equivalent or higher values are acceptable provided it is pledged in favour of Society of Integrated Coastal Management (implementing agency) and such pledging has been noted & suitable endorsed by the Bank issuing the certificate / deposit. |
| ITB 20.1 | In addition to the original of the bid, the number of copies is: **Three** |
| ITB 20.2 | The written confirmation of authorization to sign on behalf of the Bidder shall consist of  
  
  a) *Legally valid Power of Attorney is required to demonstrate the authority of the signatory to sign the Bid.* |
D. Submission and Opening of Bids

<table>
<thead>
<tr>
<th>ITB 22.1</th>
<th><em>Bidder shall not</em> have the option of submitting their bids electronically.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITB 22.1</td>
<td>If bidders shall have the option of submitting their bids electronically, the electronic bidding submission procedures shall be: <em>Not Applicable</em>.</td>
</tr>
<tr>
<td>ITB 22.1</td>
<td>For <em>bid submission purposes</em> only, the Employer’s address is:</td>
</tr>
<tr>
<td></td>
<td>Project Director, SICOM, ICZM Project, Ministry of Environment Forest &amp; Climate Change, Room No. III, 1st Floor, Pt. Deen Dayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Delhi-110003.</td>
</tr>
<tr>
<td></td>
<td>Country: India</td>
</tr>
<tr>
<td></td>
<td>Telephone: 011-24360934</td>
</tr>
<tr>
<td></td>
<td>Electronic mail address: <a href="mailto:proc.sicom@gmail.com">proc.sicom@gmail.com</a></td>
</tr>
<tr>
<td></td>
<td>Attention: Mr. Akash Sharma, Controller-F&amp;A</td>
</tr>
<tr>
<td></td>
<td>The deadline for bid submission is:</td>
</tr>
<tr>
<td></td>
<td>Date: 07-03-2018</td>
</tr>
<tr>
<td></td>
<td>Time: 12.30 hrs.</td>
</tr>
</tbody>
</table>

| ITB 25.1 | The bid opening shall take place at: |
|          | Address: SICOM, Ministry of Environment Forest & Climate Change, Room No. III, 1st Floor, Pt. Deen Dayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Delhi-110003 |
|          | Date: 07-03-2018 |
|          | Time: 1500 Hrs |

| ITB 25.1 | If electronic bid submission is permitted in accordance with ITB 22.1, the specific bid opening procedures shall be: *Not Applicable*. |
### E. Evaluation and Comparison of Bids

| ITB 25.3 | The Letter of Bid and Priced Bill of Quantities shall be initialed by authorized representatives of the Employer conducting Bid opening |
| ITB 34.1 | At this time the Employer does not intend to execute certain specific parts of the Works by sub-contractors selected in advance. |
| ITB 34.2 | Not permitted |
| ITB 34.3 | **DELETED.**  
*Note-Work should not be split into small parts and sub-contracted* |
| ITB 35.4 | **DELETED.** |

### F. Award of Contract

| ITB 43.1 | The Adjudicator proposed by the Employer is: **Prof. R. Ramesh, Director, National Centre for Sustainable Coastal Management (NCSCM), Ministry of Environment, Forest & Climate Change, Anna University Campus, Chennai - 600025.**  
The fee for this proposed Adjudicator shall be: Rs. 3000/- per hour of effective hearing plus reimbursement towards travel, transportation, lodging and boarding as per actual expenditure. The Biographical data of the proposed Adjudicator is as follows:  

**BIO-DATA**  
Name: Prof. R. Ramesh  
Address: Director, NCSCM, Anna University Campus, Chennai - 600025.  
Educational Qualification: Ph.D.  
Age: 60 Years  
Nationality: Indian  
Present Position: Director, NCSCM |

**Note:**  
*In case of inconsistencies in instructions/conditions stipulated in ITB and BDS, BDS shall prevail.*
Section III - Evaluation and Qualification Criteria

This section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders if the bidding was not preceded by a prequalification exercise and postqualification is applied. In accordance with ITB 35 and ITB 37, no other methods, criteria and factors shall be used. The Bidder shall provide all the information requested in the forms included in Section 4 (Bidding Forms).
1. Evaluation

In addition to the criteria listed in ITB 35.2 (a) – (e) the following criteria shall apply:

1.1 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section VII(Works Requirements).

For this purpose the Bidder should also submit:

a detailed note outlining its proposed methodology and program of setting up infrastructure facility & services including Environmental Management Plan, backed with equipment planning and deployment, materials and manpower planning and deployment, duly supported with broad calculations and quality control system/assurance procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

1.2 Multiple Contracts

Works are grouped in a single contract and not multiple contracts and therefore pursuant to Sub-Clause 35.4 of the Instructions to Bidders, the Employer will evaluate Bids on the basis of a single contract in order to arrive at the lowest bid for the Employer by taking into account discounts offered by Bidders. The evaluation of bids will include an assessment of the Bidder’s capacity to meet the aggregated requirements regarding:

- Experience
- Financial situation
- Current contract commitments,
- Cash flow capacity,
- Equipment to be allocated, and
- Personnel to field.
- Bid Capacity
2.0 **Bidder’s Eligibility Criteria:**

Bidder has to meet following technical and financial eligibility criteria directly or through its 100% owned subsidiary companies/firms in order to get qualified for opening of Price Bid.

2.0A. **Eligibility & Qualification Criteria:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject</th>
<th>Requirement</th>
<th>Bidder</th>
<th>Submission Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Nationality</td>
<td>Nationality in accordance with ITB 4.3</td>
<td>Must meet requirement</td>
<td>Forms ELI – 1.1 and 1.2, with attachments</td>
</tr>
<tr>
<td>1.2</td>
<td>Conflict of Interest</td>
<td>No conflicts of interest in accordance with ITB 4.2</td>
<td>Must meet requirement</td>
<td>Letter of Bid</td>
</tr>
<tr>
<td>1.3</td>
<td>Bank Eligibility</td>
<td>Not having been declared ineligible by the Bank, as described in ITB 4.4 and 4.7</td>
<td>Must meet requirement</td>
<td>Letter of Bid</td>
</tr>
<tr>
<td>1.4</td>
<td>Government Owned Entity of the Borrower country</td>
<td>Meets conditions of ITB 4.5. The entity should not be a dependent agency of the borrower or sub-borrower or employer.</td>
<td>Must meet requirement</td>
<td>Forms ELI – 1.1 and 1.2, with attachments</td>
</tr>
<tr>
<td>1.5</td>
<td>United Nations resolution or Borrower’s country law</td>
<td>Not having been excluded as a result of prohibition in the Borrower’s country laws or official regulations against commercial relations with the Bidder’s country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.7 and Section V.</td>
<td>Must meet requirement</td>
<td>Forms ELI – 1.1 and 1.2, with attachments</td>
</tr>
<tr>
<td>2.1</td>
<td>History of Non-Performing Contracts</td>
<td>Non-performance of a contract did not occur as a result of contractor default since 1st Jan 2015</td>
<td>Must meet requirement by itself</td>
<td>Form CON-2</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
<td>Requirement</td>
<td>Form</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>-------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>Suspension based on Execution of Bid Securing Declaration by the Employer or withdrawal of the Bid within Bid validity</td>
<td>Not under suspension due to withdrawal of the Bid pursuant ITB 19.8.</td>
<td>Must meet requirement</td>
<td>Bid Submission Form</td>
</tr>
<tr>
<td>2.3</td>
<td>Pending Litigation</td>
<td>Bidder’s financial position and prospective long term profitability sound according to criteria established in 3.1 below and assuming that all pending litigation will be resolved against the Bidder</td>
<td>Must meet requirement by itself</td>
<td>Form CON – 2</td>
</tr>
<tr>
<td>2.4</td>
<td>Litigation History</td>
<td>No consistent history of court/arbitral award decisions against the Bidder since 1st January 2015</td>
<td>Must meet requirement</td>
<td>Form CON – 2</td>
</tr>
<tr>
<td>2.5</td>
<td>Declaration: Environmental, Social, Health, and Safety (ESHs) past performance</td>
<td>Declare any work contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, or health or safety requirements or safeguard in the past five years ².</td>
<td>Must make the declaration. Where there are Specialized Sub-contractor/s, the Specialized Sub-contractor/s must also make the declaration.</td>
<td>Form CON-3 ESHS Performance Declaration</td>
</tr>
</tbody>
</table>

²The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture may result in disqualifying the Bidder.

³The Employer may use this information to seek further information or clarifications in carrying out its due diligence
3.0: Eligibility & Qualification Criteria:

<p>| 3.1 | Financial Competence/ Capabilities of the Bidder | (i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the cash flow requirements estimated as Rs. 20 Crores for this package, for the subject contract(s) net of the Bidders other commitments. The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments. |
| | | (ii) The audited balance sheets or, if not required by the laws of the Bidder’s country, other financial statements acceptable to the Employer, for the last five years shall be submitted and must demonstrate the current soundness of the Bidder’s financial position and indicate its prospective long-term profitability. In the last 5 financial years, the bidder has, for each year more than Rs. 100 Crores total turnover of the Company. |
| | | (iii) In the last 5 financial years, the bidder has, for each year, networth of Rs. 20 Crores. |
| | Must meet all the 3 requirements for financial capabilities. | Form FIN – 3.1, with attachments |
| | Audited Balance Sheet of last 5 years to be attached as proof of financial competence clearly showing annual turnover &amp; net worth. |</p>
<table>
<thead>
<tr>
<th>3.2</th>
<th><strong>Technical Competence of the Bidder</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(i)</td>
<td>In the last 5 cumulative financial years, the bidder should have, successfully executed &amp; completed at least 10 works of infrastructure set up related to designing, supplying &amp; commissioning of projects dealing with any of the water treatment related viz. WTP/STP/ETP OR Bio Toilet Blocks OR Solar Power Projects for any of the govt. organisations and/or from reputed private organisations. The total value of works executed successfully in last 5 years should not be less than Rs. 40 Crores. <strong>AND</strong></td>
</tr>
<tr>
<td>(ii)</td>
<td>In the last 5 cumulative financial years, the bidder has, successfully executed &amp; completed at least 10 works (contracts) &amp; payment received of the works of pollution abatement services or mechanized cleaning / housekeeping services for any of the govt. organisations and/or from reputed private organisations. Such works must include at least one work under Swachh Bharat Abhiyaan in last 3 financial years. The total value of works executed successfully in last 5 years should not be less than Rs. 50 Crores. <strong>AND</strong></td>
</tr>
<tr>
<td>(iii)</td>
<td>In the last 5 cumulative financial years, the bidder has, successfully executed &amp; completed at least 10 works &amp; payment received of safety &amp; security services including installation &amp; commissioning of CCTV/Access Control/Fire AlarmSystems /Video Door Phones Cameras preferably for any of the govt. organisations and/or from reputed private organisations. The total value of works executed successfully in last 5 years should not be less than Rs. 10 Crores.</td>
</tr>
<tr>
<td>Must meet all the 3 requirements to showcase its technical competence</td>
<td>Please attach following as proof of documentary evidence:</td>
</tr>
<tr>
<td>Form FIN – 3.2 (i)</td>
<td>A. Audited Financial Statements to this effect for each of these 3 items must be attached along with the form.</td>
</tr>
<tr>
<td>Form FIN -3.2 (ii)</td>
<td>B. Successful Work Completion Certificate.</td>
</tr>
<tr>
<td>Form FIN – 3.3 (iii)</td>
<td>C. Proof of payment received (bank statement duly certified by bank) to be attached with the form.</td>
</tr>
</tbody>
</table>
| 4.0 | **Other Requirements** | 1. The bidder must be a national operator having GST registered offices in at least these 3 coastal states/UTs i.e. Gujarat, Diu & Maharashtra.  
2. The bidder must have adequate project management & execution capabilities and for this it must have at least 50 managerial staff in its company directly on its payroll.  
4. The bidder should be a company/firm incorporated/registered in India under Indian Company’s Act 1956 or Indian Partnership Act’1932 respectively.  
5. The bidder must be preferably an environment conscious entity dealing in environment related products and/or services. | Must meet all the requirements to showcase its technical competence. | Bidder to provide documentary evidences for each of these criteria. |

4.1 For a bidder (either individually as a single entity or through its 100% owned subsidiary) to qualify for tender, he must demonstrate having Experience and resources sufficient to meet the aggregate of the qualifying criteria for the tender in question.

4.2 Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value of the work. The available bid capacity will be calculated as under:

**Assessed Available Bid Capacity** = \((A*N*1.5-B)\)

Where,
A = Maximum value of works executed in any one year during the last five years (updated to the price level of the financial year 2016-17. at the rate of 5% per year), taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as half-year and more than 6 months as one year).

B = Value, at the current price level, of existing commitments on on-going works to be completed during the period of completion of the works for which bids are invited.

Note: the statements in Section IV showing the value of existing commitments of on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer or equivalent.
5 Key Personnel

The project “BEAMS” requires sufficient no. of skilled housekeeping/ cleaning /security/ lifeguards/ and other supporting staff well groomed, trained and dressed as given in the specifications. The turnkey project involves setting up infrastructure facilities such as Toilet Blocks, Changing Rooms, Shower Panels, Drinking Water Facility, Seating Benches, Sit-out umbrellas etc. and therefore the quantum of work will increase once these facilities have been developed, installed and made operational. Therefore the deployment of manpower is varying and the contractor will have to plan as per the table below.

The staff must be present in the beach during the duty hours as specified in this tender. The duty hours may vary from location to location and season to season and will have to be planned in consultation with the local administration/Nodal officer. The BEAMS services require staffing for cleaning and solid waste management (day time only), for security (24 hours), for safety (lifeguards), first aid and for other activities as specified in this tender.

(A) Table giving type of manpower and their specifications:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Category</th>
<th>Specification(s)</th>
<th>Deployment as per timelines given</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Beach Cleaner</td>
<td>• Age = 25 to 45 years</td>
<td>*15 per beach for daily basis in the first 4 months of the commencement of work.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Qualification= Preferably literate and similar work experience.</td>
<td>*25 per beach after 4 months till the end of contract period.</td>
</tr>
<tr>
<td>2</td>
<td>Gents Security Guard</td>
<td>• Age = 25 to 55 years</td>
<td>*4 per beach for daily basis in the first 4 months of the commencement of work.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Qualification= 12th Pass</td>
<td>*6 per beach on daily basis after 4 months till the end of contract period.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Experience= Min. 2 years</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Lady Security Guard</td>
<td>• Age = 25 to 45 years</td>
<td>*2 per beach on daily basis after 4 months till the end of contract period.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Qualification= 12th Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Experience= Min. 2 years</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Position</td>
<td>Age</td>
<td>Qualification</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------</td>
<td>--------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>4</td>
<td>Gun Man (Male)</td>
<td>25 to 55 years</td>
<td>Diploma/Graduate</td>
</tr>
<tr>
<td>5</td>
<td>CCTV Operator/Office Executive (Gent/Lady)</td>
<td>25 to 55 years</td>
<td>Graduate</td>
</tr>
<tr>
<td>6</td>
<td>Beach Supervisors</td>
<td>25 to 55 years</td>
<td>Graduate</td>
</tr>
<tr>
<td>7</td>
<td>Beach Manager</td>
<td>25 to 55 years</td>
<td>Graduate preferably MBA</td>
</tr>
<tr>
<td>8</td>
<td>Lifeguards</td>
<td>25 to 55 years</td>
<td>certified from any of the reputed institute such as IISDAS or similar</td>
</tr>
<tr>
<td>9</td>
<td>First Aid Attendant</td>
<td>25 to 55 years</td>
<td>certified from any Govt. institute or St. John Ambulance</td>
</tr>
<tr>
<td>10</td>
<td>Beach Engineer</td>
<td>Engineering Degree with min 4 to 5 years of experience in handling O&amp;M of all engineering infrastructures.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**

Bidders are required to quote their monthly rates for services (both pollution abatement & safety/security services) considering the deployment as given in table above. The manpower
distribution & duty deployment must be planned in consultation with Project Manager-SICOM/Nodal Officer/Local Authorities.

(B) The Duties and Qualification Requirements of these staffs:

(B1) The duties of Security Personnel:-

i. The deployment should be 24 hours cycle and total manpower should be divided according to the need and area under surveillance.
ii. Deter criminal activity and misconduct, investigate suspicious situations, conduct patrol tours
iii. Report unsafe conditions to the appropriate management and/or personnel
iv. Respond to emergency calls and alarms
v. Communicate by use of 2-way radios, telephones and computers
vi. Maintain required certifications, licensing and training to achieve professional competency as appropriate for the position
vii. Complete required shift logs and reports; compliance with site post orders, client policies and procedures
viii. Watch for irregular or unusual conditions that may create security concerns or safety hazards
ix. Sound alarms or call police or fire department in case of fire or presence of unauthorized persons
x. Warn violators of rule infractions, such as loitering, smoking or carrying forbidden articles
xi. Operate mobile unit, ride a bicycle for extended periods of time, patrol property, and assist guests with vehicle problems
xii. Provide assistance to customers, employees and visitors in a courteous and professional manner
xiii. Observe departing personnel to protect against theft of company property and ensure that authorized removal of property is conducted within appropriate client requirements

(B2) The qualification requirements of Security Personnel:-

i. Must possess a high school diploma or equivalent
ii. Must possess a current and valid “Security Officer” License issued by a reputed agency. If the bidder does not have the license then it can outsource this staff, from licensed agency.
iii. Must be at least 2 years prior experience as a security officer for vehicle patrolling.
iv. Prior experience of serving military or National Guard would be an added preference.
v. Proficient computer skills including Microsoft Office
vi. Ability to interact cordially and communicate with the public
vii. Effective oral and written communication skills
viii. Active listening skills
ix. Ability to assess and evaluate situations effectively
x. Ability to identify critical issues quickly and accurately
xi. Attention to detail

(B3) The duties of Lifeguards:

i. The nature of appointment is on fixed term basis with full duty hours between 11:00 am to 08:00 pm (or as decided by local administration) covering the whole week including Sundays and Public holidays, on a Rota basis during the peak season.
ii. Must be mostly on a height so that proper view is seen.
iii. Must have a good quality high-resolution binocular to have a constant monitoring in deep sea.
iv. Must patrol a section of the beach at least 300 meters length, giving particular attention to places where persons are bathing.
v. Going immediately to assistance of persons in difficulties in the water and rendering to such persons the necessary attention.
vi. Keeping in good condition all life saving apparatus including binoculars provided by the contractor.
vii. Warning persons bathing of possible sources of danger
viii. Collecting and disposing of broken glass, litter etc. from the foreshore

(B4) The qualification requirements of Lifeguards:

i. Must be minimum of 18 years of age and maximum 60 years having good character, good health and good moral values.
ii. Must hold a valid beach lifeguard certificate.
iii. Must have strong interpersonal and communication skills and have the ability to engage with wide range of people including staff at all levels, members of the public.
iv. Must be committed to and conscious of providing an excellent service by ensuring the safety and enjoyment of beach by visitors.
v. Must be capable of working in teams, on his/her own initiative, in an independent environment and without constant supervision.
vi. Must pass lifeguard skills, lifesaving and resuscitation tests.
vii. Must be prepared to undergo training in the use of equipment that may be used in the course of carrying out the duties of a lifeguard.
viii. Must have good knowledge and awareness of health and safety legislation /regulations.

(B5) The duties of Beach Cleaners:

i. The nature of appointment is on fixed term basis with full duty hours between 8:00 am to 08:00 pm (or as decided by local administration) covering the whole week including Sundays and Public holidays, on a Rota basis during the peak season.
ii. Must cover a section of the beach at least 1000 sq. meters /day, giving
particular attention to places where litter is accumulated.

iii. Daily collection, segregation and transport of garbage to recycle machine.
iv. Daily disposal and reuse as per instructions of immediate superior.
v. Daily maintenance of litterbins and replacement of full garbage bags
vi. Daily maintenance of cleaning machines provided by the contractor.

(B6) **The qualification requirements of Beach Cleaners:**

i. Ability to distinguish types of solid waste and how to segregate them.
ii. Preferably be trained in housekeeping/cleaning science.
iii. Ability to interact cordially and communicate with the public
iv. Effective oral and written communication skills
v. Active listening skills
vi. Ability to assess and evaluate situations effectively
vii. Ability to identify critical issues quickly and accurately
viii. Attention to detail

(B7) **The duties of First Aid Attendant:**

(i) Provide prompt first aid within the scope of their training.
(ii) Assess the extent of injuries or medical illness to determine the level of emergency needs.
(iii) Maintain a working knowledge of beach rules, regulations, and policies,
(iv) Maintain record of accidents/injuries
(v) Promptly providing injured public/person the due care within the first aid need.
(vi) Maintain all first aid equipment in working conditions
(vii) Transport injured person/public to nearest hospital/medical facilities in case beyond the purview of first aid kit.
(viii) May be able to train others in the group in case of mass causalities.

(B8) **The qualification requirements of First Aid Attendant:**

(i) Current Cardiopulmonary Resuscitation (CPR) and First Aid certifications is must
(ii) Excellent communication and organizational skills
(iii) Strong interpersonal and problem solving abilities
(iv) Highly responsible & reliable
(v) Ability to read and comprehend simple instructions, short correspondence, and memos.
(vi) Ability to write simple correspondence.
(vii) While performing the duties of this job, the attendant is regularly required to move; remain stationary; use hands to finger, handle, or feel; and communicate.
(viii) The attendant frequently is required to remain stationary and reach
with hands and arms.

(ix) The attendant is occasionally required to ascend and descend or balance; position self to stoop, kneel, crouch, or crawl; and taste or smell.

(x) The attendant must frequently lift and/or move up to 20 kilograms and occasionally lift and/or move up to 45 kilograms. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

(C) **Code of Conduct:**

**Dress code:**

i. Every personnel working for “BEAMS” scheme should always be in uniform at all times at the beach.

ii. Dress should be clean and worn properly as shown in diagram.

**Timings:**

iii. All personnel to report to work on the assigned time, log their attendance both in & out through biometric system and be present till the assigned time for leaving.

**Behaviors:**

iv. All personnel need to be courteous to beachgoers.

v. All personnel need to bear in mind that beachgoers have a way of right & should not cause inconvenience to them.

vi. All personnel should follow supervisor’s instructions on behavior.

vii. Arguments with beachgoers and officials should be avoided at all costs.

**Language:**

viii. While communicating with beachgoers & beach operator officials, all the Contractor’s staff will use language as understood by them preferably local language.
Section IV - Bidding Forms
Letter of Bid

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder’s complete name and address.

Note: All italicized text is for use in preparing these form and shall be deleted from the final products.

Date:    ----------

Invitation for Bid No.:

To:  (Insert name of the Employer)
We, the undersigned, declare that:
(a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB8) ;
(b) We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
(c) We offer to execute in conformity with the Bidding Documents the following Works:
____________________________________________________________________;
(d) The total price of our Bid, excluding any discounts offered in item (d) below is:
___________________________ [both in words and figures];
  -In case of only one lot, total price of the Bid [insert the total price of the bid in words and figures, ];
  -In case of multiple lots, total price of each lot [insert the total price of each lot in words and figures, ];
  -In case of multiple lots, total price of all lots (sum of all lots) [insert the total price of all lots in words and figures, ];
(e) The discounts offered and the methodology for their application are:
   (i) The discounts offered are: [Specify in detail each discount offered.]
     (ii) The exact method of calculations to determine the net price after application of discounts is
   (f) Our bid shall be valid for a period of [specify the number of calendar days] days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
(g) If our bid is accepted, we commit to obtain a performance security [and an Environmental, Social, Health and Safety (ESHS) Performance Security, Delete if not applicable] in accordance with the Bidding Documents;
(h) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process in accordance with ITB 4.2(e), other than alternative bids submitted in accordance with ITB 13;
(i) We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by a member of the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks.
Further, we are not ineligible under the Employer’s country laws or official regulations or pursuant to a decision of the United Nations Security Council;

(j) We are not a government owned entity/ We are a government owned entity but meet the requirements of ITB 4.5;\(^4\)

(k) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: \[\text{insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity}\]

<table>
<thead>
<tr>
<th>Name of Recipient</th>
<th>Address</th>
<th>Reason</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

(If none has been paid or is to be paid, indicate “none.”)

(l) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and

(m) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

(n) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption

Name of the Bidder* [insert complete name of person signing the Bid]

Name of the person duly authorized to sign the Bid on behalf of the Bidder** [insert complete name of person duly authorized to sign the Bid]

Title of the person signing the Bid [insert complete title of the person signing the Bid]

Signature of the person named above [insert signature of person whose name and capacity are shown above]

Date signed [insert date of signing]day of [insert month], [insert year]

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

**: Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the BidSchedules.

\(^4\) Bidder to use as appropriate
Schedules

Bill of Quantities

Schedule of Quantities (A)

For Beach infrastructure facilities, its installations & commissioning at nominated pilot beaches of India

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Particulars</th>
<th>Qty./Beach</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SS Cladded SS Toilet Blocks Housed in a ISO Container and Bamboo work.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>a Gents Block comprising of 3 seats (1 no IWC and 3 nos EWC) and 5 urinals (4 for adults +1 for kid) and as per specification &amp; layout drawings duly fitted with bio-digester.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>b Ladies Block comprising of 6 seats (3 nos. IWC +3 Nos EWC) and as per specification &amp; layout drawings duly fitted with bio-digester.</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Changing Rooms with attached Shower Panels comprising of 6 cabins 3 each for gents &amp; ladies duly separated and equal number of shower panels placed outside the container and as per specification &amp; layout drawings.</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Grey Water Treatment Plant for recycling shower, urinal &amp; wash basin water</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>a Grey Water transfer Pumps (From CT to PST), Submersible No Clog, Solid Handling, 15 mm, MOC-CI, 5 cum/hr at 10 m head</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>b Primary Settling Tank, MS with internal 3 mm FRP and External Epoxy Painting</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>c Equalization tank HDPE Double Layer Tank 10KL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>d Raw Grey Water Pumps (From EQT to FAB), Horizontal, Monoblock, self-priming, Non Clog, Solid Handling 7mm, MOC – CI, 0.5 cum/hr at 10 m head</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>e FAB Tank MS with internal 3mm FRP and External Epoxy Painting</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>f FAB Media PP Fluidized Media, Surface Area of 400m2/m3</td>
<td>Lot</td>
</tr>
<tr>
<td></td>
<td>g Blowers for E.T., FAB, TWST, Twin Lobe Root Type</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>h Air Diffusers in FAB, Fine Bubble diffusers, MOC – EPDM, Tubular Type, 90 mm OD x 1000 mm Long wide band membrane Fine diffusers</td>
<td>Lot</td>
</tr>
<tr>
<td></td>
<td>i Air Grid in ET, TWST &amp; SHT, Coarse Grid, HDPE pipe grid</td>
<td>Lot</td>
</tr>
<tr>
<td></td>
<td>j Secondary Tube Settler Tank MS with internal 3mm FRP and External Epoxy Painting</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>k Secondary Tube Modules, 55 Deg. Inclined square tube extruded out of PVC. PVC Square Tubes with vertical height of 520 mm</td>
<td>Lot</td>
</tr>
<tr>
<td></td>
<td>l Filter Feed Tank HDPE Double Layer 1KL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>m Filter Feed Pumps, Horizontal, Mono Block, MOC - CI, 0.5cum/hr at 26 m head</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>n</td>
<td>Dual media Filter, FRP pressure vessel, Size 8” Dia x 44” HOS with sand, Anthracite &amp; supporting media</td>
<td>1</td>
</tr>
<tr>
<td>o</td>
<td>Activated Carbon Filter, FRP pressure vessel, Size 10” Dia. x 54” HOS with Activated Carbon &amp; supporting media</td>
<td>1</td>
</tr>
<tr>
<td>p</td>
<td>Hypo Dosing System, 0-4 lph metering pump with 100 liter solution tank</td>
<td>1</td>
</tr>
<tr>
<td>q</td>
<td>Treated Water Storage Tank HDPE Double Layer with a capacity of 1KL</td>
<td>1</td>
</tr>
<tr>
<td>r</td>
<td>Sludge Transfer Pump (from PST to SDB &amp; STS to SDB ), Horizontal, Monoblock, self-priming, Non Clog, Solid Handling 7mm, MOC – CI, 0.5 m3/hr at 10m Head</td>
<td>2</td>
</tr>
<tr>
<td>s</td>
<td>Sludge Holding Tank HDPE Double Layer 1KL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Bamboo Housing Enclosure with Shingle Roofing complete as per specifications for container based toilets - Gents Block</strong></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Bamboo Housing Enclosure with Shingle Roofing complete as per specifications for container based toilets - Ladies Block</strong></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Bamboo Housing Enclosure with Shingle Roofing complete as per specifications for container changing room with shower panels</strong></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Off-grid solar power plant 40KW, 300/320 Wp complete with PV cells, inverters and other accessories with DC/AC Ratio of 0.97</strong></td>
<td>1</td>
</tr>
<tr>
<td>a</td>
<td>PV Modules 5BB PV conforming to IEC 61215/ISI4286/IEC/61646/IEC/62108</td>
<td>Set</td>
</tr>
<tr>
<td>b</td>
<td>BOS items &amp; components, Power conditioner/off grid inverter/cables/switches/circuit breakers/connecters/junction boxes, Enclousures, Charge controllers/Luminaries</td>
<td>Set</td>
</tr>
<tr>
<td>c</td>
<td>Module mounting structure conforming to IS 1477, IS 5905</td>
<td>Set</td>
</tr>
<tr>
<td>d</td>
<td>DC Distribution Board between PCU and Solar array.</td>
<td>Set</td>
</tr>
<tr>
<td>e</td>
<td>Gel Batteries &amp; storage rack (200AH 12V)</td>
<td>Set</td>
</tr>
<tr>
<td>f</td>
<td>Earthing/Grounding System</td>
<td>Set</td>
</tr>
<tr>
<td>g</td>
<td>Cu/Al Unarmoured cables in conduit</td>
<td>Set</td>
</tr>
<tr>
<td></td>
<td><strong>Purified drinking water vending kiosk as per specification and layout drawing.</strong></td>
<td>1</td>
</tr>
<tr>
<td>a</td>
<td>ACP Panel, MS Steel floor with Zinc Rich Primer Kiosk</td>
<td>1</td>
</tr>
<tr>
<td>b</td>
<td>HDPE Loft tanks RWL -300 Litres and Reject water tank -200Llitres</td>
<td>2</td>
</tr>
<tr>
<td>c</td>
<td>Storage water coller with built in RO purifier with 7 stage purification filters</td>
<td>1</td>
</tr>
<tr>
<td>d</td>
<td>RO Purifier with inbuilt storage for ambient temperature water with 7 stage purification</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>e</td>
<td>Dispensing Station comprising of 2 pumps, master control and switches.</td>
<td>1</td>
</tr>
<tr>
<td>f</td>
<td>Remote Monitoring System</td>
<td>1</td>
</tr>
<tr>
<td>g</td>
<td>Bamboo work Housing Enclosure work for the vending unit</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>SS Dustbins as per specifications as per specifications</td>
<td>50</td>
</tr>
<tr>
<td>10</td>
<td>Seating bench made of wood/bamboo as per specification</td>
<td>8</td>
</tr>
<tr>
<td>11</td>
<td>Solid Waste Management complete with segregation conveyor belt, hopper, hot air dryer and automatic composting machine of 50 kg/day as processing capacity</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Bamboo Housing Enclosure work for complete SWM area</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>Sit-out umbrella made of wooden poles &amp; treated thatch</td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>Recliner chairs</td>
<td>8</td>
</tr>
<tr>
<td>14</td>
<td>LED street lights with poles</td>
<td>50</td>
</tr>
<tr>
<td>15</td>
<td>Oval shaped jogging track made of interlinked pavers block in sqmtrs (size 800 mtrs length x 1 mtr width) 800 sqmtrs with grouting provision as per specifications</td>
<td>800</td>
</tr>
<tr>
<td>16</td>
<td>Outdoor fitness equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a  Seated Chest Press/Lateral pull</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>b  Triple Horizontal Bars</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>c  Leg Press</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>d  Parallel Bars</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>e  Children slide pair</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>f  Swing pair – seater</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>Hammock</td>
<td>4</td>
</tr>
<tr>
<td>18</td>
<td>Sand Cleaning Machine (Mechanical Surf Raking) as per specification</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>Site office container based with chairs, table &amp; storage almirah</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>Tool kit comprising of basic electrical, plumbing and allied services</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>Do's &amp; Don't kiosks</td>
<td>5</td>
</tr>
<tr>
<td>22</td>
<td>Environment Education &amp; Safety Slogans</td>
<td>20</td>
</tr>
<tr>
<td>23</td>
<td>Office Automation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>a  Computer</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>b  Printer</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>c  Wi-Fi</td>
<td>1</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>------</td>
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<td></td>
</tr>
<tr>
<td>24</td>
<td>CCTV cameras for security &amp; surveillance</td>
<td>1</td>
</tr>
<tr>
<td>a</td>
<td>IR bullet camera for toilet block + changing room passages</td>
<td>1</td>
</tr>
<tr>
<td>b</td>
<td>IR bullet camera for common area/waterfront</td>
<td>2</td>
</tr>
<tr>
<td>c</td>
<td>PTZ camera for common area</td>
<td>1</td>
</tr>
<tr>
<td>d</td>
<td>NVR for Control Room</td>
<td>1</td>
</tr>
<tr>
<td>e</td>
<td>HDD 4TB for Control Room</td>
<td>1</td>
</tr>
<tr>
<td>f</td>
<td>SMPS for Control Room</td>
<td>4</td>
</tr>
<tr>
<td>g</td>
<td>RG6 and Power Cable Un armoured</td>
<td>at Actual</td>
</tr>
<tr>
<td>h</td>
<td>RG6 and Power Cable armoured</td>
<td>at Actual</td>
</tr>
<tr>
<td>i</td>
<td>OFC Cable</td>
<td>at Actual</td>
</tr>
<tr>
<td>j</td>
<td>HDPE Pipe 2&quot;</td>
<td>at Actual</td>
</tr>
<tr>
<td>k</td>
<td>GI Pipe 2&quot;</td>
<td>at Actual</td>
</tr>
<tr>
<td>l</td>
<td>Trenching</td>
<td>at Actual</td>
</tr>
<tr>
<td>m</td>
<td>Trenching</td>
<td>at Actual</td>
</tr>
<tr>
<td>n</td>
<td>Network Cable</td>
<td>at Actual</td>
</tr>
<tr>
<td>o</td>
<td>LAN Patch cords</td>
<td>at Actual</td>
</tr>
<tr>
<td>p</td>
<td>OFC Pigtails</td>
<td>at Actual</td>
</tr>
<tr>
<td>q</td>
<td>OFC Patch cords</td>
<td>at Actual</td>
</tr>
<tr>
<td>r</td>
<td>Network Switch</td>
<td>2</td>
</tr>
<tr>
<td>s</td>
<td>Media Converters</td>
<td>8</td>
</tr>
<tr>
<td>t</td>
<td>Monitors</td>
<td>1</td>
</tr>
<tr>
<td>u</td>
<td>Stand for Monitor</td>
<td>1</td>
</tr>
<tr>
<td>v</td>
<td>Joy Stick</td>
<td>1</td>
</tr>
<tr>
<td>w</td>
<td>4 core cable</td>
<td>at Actual</td>
</tr>
<tr>
<td>x</td>
<td>Network Rack</td>
<td>1</td>
</tr>
<tr>
<td>y</td>
<td>Splicing Trays and LIU</td>
<td>8</td>
</tr>
<tr>
<td>z</td>
<td>3 core cable</td>
<td>at Actual</td>
</tr>
<tr>
<td>aa</td>
<td>Power points</td>
<td>10</td>
</tr>
<tr>
<td>ab</td>
<td>Junction boxes</td>
<td>5</td>
</tr>
<tr>
<td>ac</td>
<td>PVC Boxes</td>
<td>5</td>
</tr>
<tr>
<td>ad</td>
<td>Stand for Camera</td>
<td>4</td>
</tr>
<tr>
<td>ae</td>
<td>Pole 5m</td>
<td>1</td>
</tr>
<tr>
<td>af</td>
<td>Pole 4m</td>
<td>3</td>
</tr>
<tr>
<td>ag</td>
<td>Pole Mounting Brackets</td>
<td>1</td>
</tr>
<tr>
<td>ah</td>
<td>OFC Splicing</td>
<td>50</td>
</tr>
<tr>
<td>ai</td>
<td>UPS 1 KVA</td>
<td>1</td>
</tr>
<tr>
<td>aj</td>
<td>Installation &amp; commissioning</td>
<td>1</td>
</tr>
</tbody>
</table>

**Important Note:**

All infrastructure facilities must be installed & commissioned duly secured to the ground keeping in view of high tides & high wind speeds in coastal regions. The height of toilet blocks/changing rooms/other plants must be installed at least 2 to 3 feet raised height to avoid sea water ingress during periodic peak tides/waves. Sit-out umbrellas may be of portable type so that it can be placed on inter-tidal areas during the low tides and can be removed in the high tides safeguarding it from any possible damages. Any damage due to high wind speeds/storms/cyclones must be immediately restored.
Schedule of Quantities (B)
For mechanized beach pollution abatement services at nominated pilot beaches of India

<table>
<thead>
<tr>
<th>A</th>
<th>Manpower (per Day)</th>
<th>Qty./Beach</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Beach Managers</td>
<td>As given in specification</td>
</tr>
<tr>
<td>2</td>
<td>Beach Cleaners (Deployment as per specification)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Beach Supervisors</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Engineer for O&amp;M of engineering infrastructure</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>Materials:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cleaning Agents / Detergents (Qty./Month)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a Mutifunctional cleaner &amp; disinfectant in litres</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>b De-scaler in litres</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>c Air freshner (water based) in litres</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>d Iron stain remover in litres</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>e Gum/Glue/GraffitiRemover in litres</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>f Booster enzyme for composting (kg)</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>g Deodourant chemical for composting (kg)</td>
<td>10</td>
</tr>
</tbody>
</table>

| 2 | Uniform/Staff (Qty./Year)                                                          |            |
|   | a Dungaree/ T-shirt & Trousers                                                    | 4          |
|   | b Cap                                                                              | 4          |
|   | c Shoes                                                                            | 2          |
|   | d Hand Gloves                                                                      | 12         |
|   | e Masks                                                                            | 6          |
|   | f I-Card/Name Badge                                                                | 1          |

| 3 | Cleaning tools (Qty./Month)                                                        |            |
|   | a Super Absorbent floor mop                                                        | 3          |
|   | b Squeegee brush                                                                   | 3          |
|   | c Spray Bottle                                                                     | 10         |
|   | d Toilet Brush                                                                     | 30         |
|   | e Pro-Bucket                                                                       | 2          |
|   | f Wringer Trolley                                                                  | 0.33       |
|   | g Glass cleaning squeeze                                                            | 3          |
|   | h Micro fibre cloth                                                                 | 10         |
|   | i Duster cloth                                                                     | 200        |
|   | j Hand tools/implants                                                              | 5          |

| 4 | Consumables (Qty./Month)                                                           |            |
|   | a Liquid Soap                                                                       | 60         |
|   | b Garbage bags                                                                      | 3000       |
|   | c Paper Glass for drinking water                                                    | 30000      |

| 5 | Hand dryer machine                                                                 | 4          |
### Schedule of Quantities (C)
#### For mechanized beach safety & security services at nominated pilot beaches of India

<table>
<thead>
<tr>
<th>A</th>
<th>Manpower (per Day)- Deployment as per specification</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gents Security Guard</td>
<td>As given in specification</td>
</tr>
<tr>
<td>2</td>
<td>Lady Security Guard</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Gun Man</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>CCTV Operator cum office executive</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Trained Lifeguards</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>First Aid Attendant</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Water Vending Machine Operator</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>Materials:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Amphibious wheel chair (per Month)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Beach Safety Flags (Set comprising of various flags as per Blue Flag Criteria)</td>
<td>Lot</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3</th>
<th>Water Rescue Equipment : (per Month)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Life Jacket</td>
<td>5</td>
</tr>
<tr>
<td>b</td>
<td>Life Ropes</td>
<td>2</td>
</tr>
<tr>
<td>c</td>
<td>Buoyant Rings</td>
<td>2</td>
</tr>
<tr>
<td>d</td>
<td>Spine Board</td>
<td>2</td>
</tr>
<tr>
<td>e</td>
<td>Rescue Cans</td>
<td>2</td>
</tr>
<tr>
<td>f</td>
<td>Rescue Tubes</td>
<td>5</td>
</tr>
<tr>
<td>g</td>
<td>Life Hooks</td>
<td>2</td>
</tr>
<tr>
<td>h</td>
<td>Whistle</td>
<td>2</td>
</tr>
<tr>
<td>i</td>
<td>First Aid Kit</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4</th>
<th>Biometric machine- 3 type recognition system (Card+Thumb+Face)</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Binoculars good quality high resolution</td>
<td>2</td>
</tr>
</tbody>
</table>

Note:
The quantities for water rescue equipment are indicative and may vary for high tourist seasons. Contractor is required to plan them accordingly.
Form of Bid Security (Bank Guarantee)

[Guarantor letterhead or SWIFT identifier code]

Beneficiary:

[Insert name and address of the Employer]

Invitation for Bids No:  [Insert reference number for the Invitation for Bids]

Date: [Insert date of issue]

BID GUARANTEE No.: [Insert guarantee reference number]

Guarantor:  [Insert name and address of place of issue, unless indicated in the letterhead]

We have been informed that [insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof] (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its bid (hereinafter called "the Bid") for the execution of [insert description of contract] under Invitation for Bids No. [insert number] ("the IFB").

Furthermore, we understand that, according to the Beneficiary’s conditions, bids must be supported by a bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [insert amount in letters] (insert amount in numbers) upon receipt by us of the Beneficiary’s complying supported by the Beneficiary’s statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating either that the Applicant:

(a)  has withdrawn its Bid during the period of bid validity specified by the Applicant in the Letter of Bid, or any extension thereto provided by the Applicant; or

(b)  having been notified of the acceptance of its Bid by the Beneficiary during the period of bid validity, (i) fails to execute the Contract Agreement or (ii) fails to furnish the performance security, and, if required, the Environmental, Social, Health and Safety (ESHS) Performance Security, in accordance with the Instructions to Bidders (“ITB”) of the Beneficiary’s bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security and, if required, the Environmental, Social, Health and Safety (ESHS) Performance Security, issued to the Beneficiary upon the instruction of the Applicant; and (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary’s notification to the Applicant of the results of the bidding process; or (ii) twenty-eight days after the Validity Period, which date shall be established by presentation to us of copies of the Letter of Bid and any extension(s) thereto, accompanied by the bidding document; or (c) three years after the date of issue of this guarantee.
Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

_____________________________

[signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.
Technical Proposal

Technical Proposal Forms

- Key Personnel Schedule
- Equipment
- Site Organization
- Method Statement
- Mobilization Schedule
- Construction Schedule
- ESHS Management Strategies and Implementation Plans
- Code of Conduct (ESHS)
- Others
Bidders should provide the names and details of the suitably qualified Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

**Key Personnel Schedule**

<table>
<thead>
<tr>
<th>1.</th>
<th>Title of position:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of candidate:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of appointment:</td>
<td>[insert the whole period (start and end dates) for which this position will be engaged]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time commitment: for this position:</td>
<td>[insert the number of days/week/months/ that has been scheduled for this position]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expected time schedule for this position:</td>
<td>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.</th>
<th>Title of position: [Environmental Specialist]</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of candidate:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of appointment:</td>
<td>[insert the whole period (start and end dates) for which this position will be engaged]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time commitment: for this position:</td>
<td>[insert the number of days/week/months/ that has been scheduled for this position]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expected time schedule for this position:</td>
<td>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.</th>
<th>Title of position: [Health and Safety Specialist]</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of candidate:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of appointment:</td>
<td>[insert the whole period (start and end dates) for which this position will be engaged]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time commitment: for this position:</td>
<td>[insert the number of days/week/months/ that has been scheduled for this position]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expected time schedule for this position:</td>
<td>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.</th>
<th>Title of position: [Social Specialist]</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of candidate:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of appointment:</td>
<td>[insert the whole period (start and end dates) for which this position will be engaged]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time commitment: for this position:</td>
<td>[insert the number of days/week/months/ that has been scheduled for this position]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expected time schedule for this position:</td>
<td>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name of candidate:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of appointment:</td>
<td>[insert the whole period (start and end dates) for which this position will be engaged]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time commitment: for this position:</td>
<td>[insert the number of days/week/months/ that has been scheduled for this position]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expected time schedule for this position:</td>
<td>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Title of position: [insert title]

<table>
<thead>
<tr>
<th>Name of candidate</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration of appointment:</td>
<td>[insert the whole period (start and end dates) for which this position will be engaged]</td>
</tr>
<tr>
<td>Time commitment: for this position:</td>
<td>[insert the number of days/week/months/ that has been scheduled for this position]</td>
</tr>
<tr>
<td>Expected time schedule for this position:</td>
<td>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</td>
</tr>
</tbody>
</table>
Form PER-2:
Resume and Declaration
Key Personnel

<table>
<thead>
<tr>
<th>Name of Bidder</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Position [#1]: [title of position from Form PER-1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel information</td>
</tr>
<tr>
<td>------------------------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Address:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Professional qualifications:</td>
</tr>
<tr>
<td>Academic qualifications:</td>
</tr>
<tr>
<td>Language proficiency: [language and levels of speaking, reading and writing skills]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address of employer:</td>
</tr>
<tr>
<td>Telephone:</td>
</tr>
<tr>
<td>Fax:</td>
</tr>
<tr>
<td>Job title:</td>
</tr>
</tbody>
</table>

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

<table>
<thead>
<tr>
<th>Project</th>
<th>Role</th>
<th>Duration of involvement</th>
<th>Relevant experience</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Declaration

I, the undersigned Key Personnel, certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

<table>
<thead>
<tr>
<th>Commitment to duration of contract:</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>[insert period (start and end dates) for which this Key Personnel is available to work on this contract]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time commitment:</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>[insert the number of days/week/months/ that this Key Personnel will be engaged]</td>
<td></td>
</tr>
</tbody>
</table>

I understand that any misrepresentation or omission in this Form may:

(a) be taken into consideration during Bid evaluation;

(b) my disqualification from participating in the Bid;

(c) my dismissal from the contract.

Name of Key Personnel: [insert name]

Signature: __________________________________________________________

Date: (day month year): _____________________________________________

Countersignature of authorized representative of the Bidder:

Signature: __________________________________________________________

Date: (day month year): _____________________________________________
Organization Structure

[insert Organization Structure information]
Method Statement

(ACTIVITY CHART)

[insert Method Statement]
Construction Schedule

(PERT Chart)

[insert Construction Schedule]
ESHS Management Strategies and Implementation Plans

(ESHS-MSIP)

[Note to Employer: modify the text in italics in the numbered points below, to name the appropriate documents.]

The Bidder shall submit comprehensive and concise Environmental, Social, Health and Safety Management Strategies and Implementation Plans (ESHS-MSIP) as required by ITB 11.1 (h) of the Bid Data Sheet. These strategies and plans shall describe in detail the actions, materials, equipment, management processes etc. that will be implemented by the Contractor, and its subcontractors.

In developing these strategies and plans, the Bidder shall have regard to the ESHS provisions of the contract including those as may be more fully described in the following:

1. [the Works Requirements described in Section VII];
2. [Environmental and Social Impact Assessment (ESIA)];
3. [Environmental and Social Management Plan (ESMP)];
4. [Resettlement Action Plan (RAP)];
5. [Consent Conditions (regulatory authority conditions attached to any permits or approvals for the project)]; and
6. [specify any other relevant document/s]
Code of Conduct: Environmental, Social, Health and Safety (ESHSS)

[Note to Employer: modify the text in italics in the numbered points below, to name the appropriate documents.]

The Bidder shall submit the Code of Conduct that will apply to the Contractor’s employees and subcontractors as required by ITB 11.1 (h) of the Bid Data Sheet. The Code of Conduct shall ensure compliance with the ESHS provisions of the contract, including those as may be more fully described in the following:

1. [the Works Requirements described in Section VII];
2. [Environmental and Social Impact Assessment (ESIA)];
3. [Environmental and Social Management Plan (ESMP)];
4. [Consent Conditions (regulatory authority conditions attached to any permits or approvals for the project)]; and
5. [specify any other relevant document/s]

In addition, the Bidder shall submit an outline of how this Code of Conduct will be implemented. This will include: how it will be introduced into conditions of employment/engagement, what training will be provided, how it will be monitored and how the Contractor proposes to deal with any breaches.
Others
Bidder’s Qualification

To establish its qualifications to perform the contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.
Form ELI-1.1: Bidder Information Form

<table>
<thead>
<tr>
<th>Bidder's name</th>
</tr>
</thead>
<tbody>
<tr>
<td>In case of Joint Venture (JV), name of each member: N/A</td>
</tr>
<tr>
<td>Bidder's actual or intended country of registration:</td>
</tr>
<tr>
<td><em>indicate country of Constitution</em></td>
</tr>
<tr>
<td>Bidder's actual or intended year of incorporation:</td>
</tr>
<tr>
<td>Bidder's legal address [in country of registration]:</td>
</tr>
<tr>
<td>Bidder's authorized representative information</td>
</tr>
<tr>
<td>Name: ____________________________</td>
</tr>
<tr>
<td>Address: ____________________________</td>
</tr>
<tr>
<td>Telephone/Fax numbers: ____________________________</td>
</tr>
<tr>
<td>E-mail address: ____________________________</td>
</tr>
</tbody>
</table>

1. Attached are copies of original documents of
   - Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.3.
   - In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1.
   - In case of Government-owned enterprise or institution, in accordance with ITB 4.5 documents establishing:
     - Legal and financial autonomy
     - Operation under commercial law
     - Establishing that the Bidder is not dependent agency of the Employer
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.
Form CON – 2: Historical Contract Non-Performance, Pending Litigation and Litigation History

Bidder’s Name: ____________________
Date: ______________________
Joint Venture Member’s Name_________________________
NCB No. and title: _____________________________
Page __________ of ________________ pages

Non-Performed Contracts in accordance with Section III, Evaluation Criteria and Qualifications

<table>
<thead>
<tr>
<th>Year</th>
<th>Non-performed portion of contract</th>
<th>Contract Identification</th>
<th>Total Contract Amount (current value, currency, exchange rate and US$ equivalent)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Contract Identification:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name of Employer:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Address of Employer:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reason(s) for non performance:</td>
<td></td>
</tr>
</tbody>
</table>

Pending Litigation, in accordance with Section III, Evaluation Criteria and Qualifications

| □ | No pending litigation in accordance with Section III, Evaluation Criteria and Qualifications, Sub-Factor 2.3. |
| □ | Pending litigation in accordance with Section III, Evaluation Criteria and Qualifications, Sub-Factor 2.3 as indicated below. |
Form CON – 3: Environmental, Social, Health, and Safety

Performance Declaration

[The following table shall be filled in for the Bidder, each member of a Joint Venture and each Specialized Subcontractor]

Bidder’s Name: [insert full name]
Date: [insert day, month, year]
Joint Venture Member’s or Specialized Subcontractor’s Name: [insert full name]
NCB No. and title: [insert NCB number and title]
Page [insert page number] of [insert total number] pages

<table>
<thead>
<tr>
<th>Year Suspended or terminated portion of contract</th>
<th>Contract Identification</th>
<th>Total Contract Amount (current value, currency, exchange rate and US$ equivalent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[insert year] [insert amount and percentage]</td>
<td>Contract Identification: [indicate complete contract name/number, and any other identification]</td>
<td>[insert amount]</td>
</tr>
<tr>
<td></td>
<td>Name of Employer: [insert full name]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address of Employer: [insert street/city/country]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reason(s) for suspension or termination: [indicate main reason(s)]</td>
<td></td>
</tr>
<tr>
<td>[insert year] [insert amount and percentage]</td>
<td>Contract Identification: [indicate complete contract name/number, and any other identification]</td>
<td>[insert amount]</td>
</tr>
<tr>
<td></td>
<td>Name of Employer: [insert full name]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address of Employer: [insert street/city/country]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reason(s) for suspension or termination: [indicate main reason(s)]</td>
<td></td>
</tr>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Year</td>
<td>Contract Identification</td>
<td>Total Contract Amount (current value, currency, exchange rate and US$ equivalent)</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>[insert year]</td>
<td>Contract Identification: [indicate complete contract name/number, and any other identification]</td>
<td>[insert amount]</td>
</tr>
<tr>
<td></td>
<td>Name of Employer: [insert full name]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address of Employer: [insert street/city/country]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reason(s) for calling of performance security: [indicate main reason(s)]</td>
<td></td>
</tr>
</tbody>
</table>
**Form CCC: Current Contract Commitments / Works in Progress**

Bidders and each partner to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

<table>
<thead>
<tr>
<th>Name of contract</th>
<th>Employer, contact address/tel/fax</th>
<th>Value of outstanding work (current US$ equivalent)</th>
<th>Estimated completion date</th>
<th>Average monthly invoicing over last six months (US$/month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Form FIN – 3.1: Financial Situation and Performance

**Bidder’s Name:**

**Date:**

**NCB No. and title:**

**Page** of **pages**

<table>
<thead>
<tr>
<th>Type of Financial information in (Indian Currency)</th>
<th>Historic information for previous _______ years, (amount in currency, currency, exchange rate, USD equivalent)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Year 1</td>
</tr>
</tbody>
</table>

**Statement of Financial Position (Information from Balance Sheet)**

- Total Assets (TA)
- Total Liabilities (TL)
- Total Equity/Net Worth (NW)
- Current Assets (CA)
- Current Liabilities (CL)
- Working Capital (WC)

**Information from Income Statement**

- Total Revenue (TR)
- Profits Before Taxes (PBT)

**Cash Flow Information**

- Cash Flow from Operating Activities
2. Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

<table>
<thead>
<tr>
<th>No.</th>
<th>Source of finance</th>
<th>Amount (In Indian Rs.)</th>
<th>Amount (US$ equivalent) as per prevailing Exchange Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Financial documents

The Bidder and its parties shall provide copies of financial statements for _________ years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.2. The financial statements shall:

(a) reflect the financial situation of the Bidder or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements\(^5\) for the _________ years required above; and complying with the requirements

---

\(^5\) If the most recent set of financial statements is for a period earlier than 12 months from the date of bid, the reason for this should be justified.
Form FIN - 3.1: Annual Turnover

Bidder’s Name: __________________________
Date: __________________________
No. and title: ____________________________
Page _____________ of _____________ pages

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount in Rs. Currency</th>
<th>Exchange rate</th>
<th>USD equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>[indicate year]</td>
<td>[insert amount and indicate currency]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Annual Turnover *</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- See Section III, Evaluation and Qualification Criteria, Sub-Factor 3.2.
Form FIN - 3.2: (i) Works Executed/Payment Received for Technical Competence

Type of Works Desired: WTP/STP/ETP or Bio Toilet Blocks or Solar Power Projects (Any of the 3 works successfully Executed by Bidder directly or through its 100% owned subsidiary)

Bidder’s Name: ___________________
Date: ______________________

Cumulative Figures of Last 5 Financial Years (as per audited Balance Sheet)

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount in Rs. Currency</th>
<th>Exchange rate</th>
<th>USD equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>[indicate year]</td>
<td>[insert amount and indicate currency]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total of 5 Years</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Please mention the type of work executed successfully and payment received.
Form FIN - 3.2: (ii) Works Executed/Payment Received for Technical Competence

Type of Works Desired: Pollution Abatement Services/Mechanized Cleaning /Housekeeping

(Works successfully Executed by Bidder directly or through its 100% owned subsidiary)

Bidder's Name: _________________
Date: _________________

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount in Rs. Currency</th>
<th>Exchange rate</th>
<th>USD equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-17</td>
<td>[insert amount and indicate currency]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total of 5 Years</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Please mention the type of work executed successfully and payment received.
Form FIN - 3.2: (iii) Works Executed/Payment Received for Technical Competence

Type of Works Desired: CCTV Cameras/Access Control Systems /Fire Alarm Systems/ Video Door/Security Phones

(Works successfully Executed by Bidder directly or through its 100% owned subsidiary)

Bidder’s Name: __________________
Date: ______________________

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount in Rs. Currency</th>
<th>Exchange rate</th>
<th>USD equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-17</td>
<td>[insert amount and indicate currency]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014-15</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2013-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012-13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total of 5 Years</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Please mention the type of work executed successfully and payment received.
**Form FIN - 3.3: Financial Resources**

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Section III (Evaluation and Qualification Criteria)

<table>
<thead>
<tr>
<th>Source of financing</th>
<th>Amount (In Indian Rs.)</th>
<th>Amount (US$ equivalent) as per prevailing Exchange Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Form EXP - 4.1: General Experience**

Bidder’s Name: ________________
Date: ________________
No. and title: ________________
Page ____________ of ____________ pages

<table>
<thead>
<tr>
<th>Starting Year</th>
<th>Ending Year</th>
<th>Contract Identification</th>
<th>Role of Bidder</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Contract name: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Brief Description of the Works performed by the Bidder:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amount of contract: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name of Employer: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Address: ________________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contract name: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Brief Description of the Works performed by the Bidder:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amount of contract: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name of Employer: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Address: ________________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contract name: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Brief Description of the Works performed by the Bidder:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amount of contract: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name of Employer: __________</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Address: ________________</td>
<td></td>
</tr>
</tbody>
</table>
Form EXP - 4.2(a): Specific Beach Management / Contract Management Experience

Bidder’s Name: ____________________
Date: ____________________
No. and title: ____________________
Page ______________ of ______________ pages

<table>
<thead>
<tr>
<th>Similar Contract No.</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contract Identification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Award date</td>
<td></td>
</tr>
<tr>
<td>Completion date</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Role in Contract</th>
<th>Prime Contractor</th>
<th>Member in JV</th>
<th>Management Contractor</th>
<th>Sub-contractor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Contract Amount</th>
<th>US$ *</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>If member in a JV or sub-contractor, specify participation in total Contract amount</th>
<th>*</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Employer's Name:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>Telephone/fax number</td>
<td></td>
</tr>
<tr>
<td>E-mail:</td>
<td></td>
</tr>
</tbody>
</table>

*
### Form EXP - 4.2(a) (cont.)

**Specific Beach Management / Contract Management Experience (cont.)**

<table>
<thead>
<tr>
<th>Similar Contract No.</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:</td>
<td></td>
</tr>
<tr>
<td>1. Amount</td>
<td></td>
</tr>
<tr>
<td>2. Physical size of required works items</td>
<td></td>
</tr>
<tr>
<td>3. Complexity</td>
<td></td>
</tr>
<tr>
<td>4. Methods/Technology</td>
<td></td>
</tr>
<tr>
<td>5. Construction rate for key activities</td>
<td></td>
</tr>
<tr>
<td>6. Other Characteristics</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**

Similar Contracts means turnkey nature of works in which manpower was engaged by the bidder for delivering mechanized cleaning/housekeeping/pollution abatement services/security services/facility services
Form EXP - 4.2(b): Experience in Key Activities

Bidder’s Name: ____________________________
Date: ____________________________

Joint Venture Member’s Name ____________________________
Sub-contractor's Name 6 (as per ITB 34.2 and 34.3): ____________________________

No. and title: ____________________________
Page __________________ of __________ pages

Sub-contractor's Name (as per ITB 34.2 and 34.3): ____________________________
All Sub-contractors for key activities must complete the information in this form as per ITB 34.2 and 34.3 and Section III, Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: ____________________________

<table>
<thead>
<tr>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Contract Identification</strong></td>
</tr>
<tr>
<td><strong>Award date</strong></td>
</tr>
<tr>
<td><strong>Completion date</strong></td>
</tr>
<tr>
<td><strong>Role in Contract</strong></td>
</tr>
<tr>
<td>Prime Contractor □</td>
</tr>
<tr>
<td>Member in JV □</td>
</tr>
<tr>
<td>Management Contractor □</td>
</tr>
<tr>
<td>Sub-contractor □</td>
</tr>
<tr>
<td><strong>Total Contract Amount</strong> US$</td>
</tr>
<tr>
<td><strong>Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year</strong></td>
</tr>
<tr>
<td>Total quantity in the contract (i)</td>
</tr>
<tr>
<td>Percentage participation (ii)</td>
</tr>
<tr>
<td>Actual Quantity Performed (i) x (ii)</td>
</tr>
<tr>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
</tr>
<tr>
<td><strong>Employer’s Name:</strong></td>
</tr>
</tbody>
</table>

6 If applicable.
<table>
<thead>
<tr>
<th>Address:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone/fax number</td>
<td></td>
</tr>
<tr>
<td>E-mail:</td>
<td></td>
</tr>
</tbody>
</table>
### Information

<table>
<thead>
<tr>
<th>Employer’s Name:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>Telephone/fax number</td>
<td></td>
</tr>
<tr>
<td>E-mail:</td>
<td></td>
</tr>
</tbody>
</table>

2. Activity No. Two

3. ..................

### Information

Description of the key activities in accordance with Sub-Factor 4.2(b) of Section III:

- 
- 
- 
- 
- 
- 
- 
- 
- 
-
## TABLE-II

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Item Particulars</th>
<th>Quoted Rate (In Figures Rs.)</th>
<th>Quoted Rate (In Words Rs.)</th>
<th>Unit</th>
<th>Total Amount for the entire period (in Figures)… Rs</th>
<th>Total Amount for the entire period (in Words)…Rs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Infrastructure Facilities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>Pollution Abatement Services</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td><strong>Safety /Security Services</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Note:

1) Bidders are advised to quote their rates in the format given above for each of 3 items.
2) For infrastructure services a single lump sum amount should be quoted against the total budgeted figure in Table-I.
3) For services, separate monthly rates should be given for each item and for each period (a) and (b) as shown in this format.
4) Total Amount for the 2 years contract period should also be calculated in the last column.
5) GST to be quoted extra for each of the item as/if applicable.
Section V - Eligible Countries

Eligibility for the Provision of Goods, Works and Services in Bank-Financed Procurement

1. In reference to ITB 4.7, and 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this bidding process:

   Under ITB 4.7 (a) and 5.1  None
   Under ITB 4.7 (b) and 5.1  None
Section VI. Bank Policy - Corrupt and Fraudulent Practices

(Guideline shall not be modified)

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011:

“Fraud and Corruption:

1.16 It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts. In pursuance of this policy, the Bank:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) “obstructive practice” is

(aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its

---

7 In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

8 For the purpose of this sub-paragraph, “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

9 For the purpose of this sub-paragraph, “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

10 For the purpose of this sub-paragraph, “parties” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other’s bid prices or other conditions.

11 For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.
knowledge of matters relevant to the investigation or from pursuing the investigation, or

(bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under paragraph 1.16(e) below.

(b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

(c) will declare mis-procurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;

(d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank’s sanctions procedures,\textsuperscript{12} including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated\textsuperscript{13};

(e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

\textsuperscript{12} A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank’s sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

\textsuperscript{13} A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.
PART 2 – Works Requirements
Section VII - Works Requirements

PROJECT SPECIFICATIONS
A. GENERAL SPECIFICATIONS

1.0 SCOPE OF WORK

i. Provisions & maintenance of container based stainless steel cladded “toilets blocks” both male/female as per specifications & drawings.

ii. Provision & maintenance of container based stainless steel cladded “changing rooms attached with shower panels” as per specifications & drawings.

iii. Provision & maintenance of “grey water treatment plant” for recycling of shower/washbasin/urinals discharges as per specifications and drawings.

iv. Provision & maintenance of “treated bamboo work” for housing of specified installations with treated thatch roof as per specifications and drawings.

v. Provision & maintenance of “solar power plant” for electricity requirements for facilities as per specifications and drawings.

vi. Provision & maintenance of “drinking water facility” through purified vending units with paper glass & operator as per specifications and drawings.

vii. Provision & maintenance of “stainless steel litter bins” in pair with garbage bags & regular cleaning as per specifications and drawings.

viii. Provision & maintenance of “seating bench” made out of mild steel & wooden planks as per specifications&image.

ix. Provision & maintenance of “waste management plant &composting unit” for recycling solid waste as per specifications& drawings.

x. Provision & maintenance of “sit-out umbrella thatch” as per specifications and drawings.

xi. Provision & maintenance of “recliner chairs” under thatch as per specifications and image.

xii. Provision & maintenance of “LED street lights” as per specifications.

xiii. Provision & maintenance of “pathways/jogging track” as per specifications& layout drawing.

xiv. Provision & maintenance of “outdoor fitness equipment” as per images.

xv. Provision & maintenance of “amphibianwheel chairs” for disabled people as per image.

xvi. Provision & maintenance of colour coded “safety flags” as per the ISO 20712 standard.

xvii. Provision & maintenance of “CCTV cameras” with cable network and control room as per specifications.

xviii. Provision & maintenance of “cleaning machinery” for mechanical raking of sand once a week in each of the beaches per specifications.

xix. Provision & maintenance of “hammocks” in coconut/palm trees on the beach as per specifications.

xx. Provision of adequate number of certified “Lifeguards” for safety needs as per specifications.

xxi. Provision of trained staff for beach cleaning and solid waste collection, recycling & disposal as per specifications.

xxii. Provision of supervisory staff, technical staff for O&M of plant & machinery and beach manager as per specifications.
xxiii. Provision of cleaning agents, cleaning tools/aids, toiletries such as liquid soap & hand dryer machine as per specifications.

xxiv. Provision & maintenance of “Do’s/Don’ts/ Environment Education” kiosks in strategic location all over the beach in consultation with Project Manager/Nodal officer/Local authorities.

xxv. Assisting local administration in environmental educational activities as per International laid down practices & requirements.

xxvi. Assisting local administration in various certifications, its application, feasibility & surveillance audits.

xxvii. Provision of site office made of prefab structures duly equipped with storage racks, computer system & its peripherals for staff attendance & event data logging.
B. PROJECT RESOURCE SPECIFICATIONS

1.1 Toilet Blocks Facilities:

The Bidder will be required to supply and install the pre-fabricated container based toilet blocks. The scope includes design, fabrication, commissioning and running the toilet operation. The toilet blocks must be housed inside a bamboo enclosure as shown in the layout drawings.

(A) SPECIFICATION FOR PORTABLE TOILET MALE BLOCK – 3 seats & 5 urinals

| LAYOUT | The exterior dimensions of the container is to be minimum 20’ x 8’ x 8’ with a tolerance of +10%. Each toilet block should consist of 1 nos IWC + 2 Nos EWC + 5 nos urinals (4 for men and 1 for boy) and two numbers of washbasins with 1 no’s of common looking mirror aesthetically fitted over wash basin area. All internal accessories of mirror frame, WC & washbasin to be made of SS 316 material. The exterior dimensions of the standard container is to be minimum 20’ x 8’ x 8’ with a tolerance of +10%. Wall opposite the toilet cubicle to be covered with PV coated panel in SS 316 in gold- mirror finish, Champagne mirror finish and stainless mirror finish. |
| OUTER STRUCTURE | The outer structure to be made of pre-manufactured second hand container. The structure shall be reworked and to be PU painted with proper primer base work and anti corrosive paint. Paint to be of Shalimar/Asian Paints make. |
| INNER WALL AND CLADDING | To be of SS316 Box Section frame of 20x20x2mm thick along with SS panel made up of SS316 with 1mm thick /lulen/macro mat finish supported with proper plywood pasting with 10mm thick. The total thickness of sandwich panel should be 20mm for toilet cabin partition with the base &frame work made up of 1.6mm thick SS316/SB finish. The toilet cabin door sandwich panels should have minimum 15mm to 36mm thick with mortise lock arrangement. The Inner wall & cladding should be anti finger coating. Wall in common area to be covered with PVD coated panel in SS 316 of thickness in gold, Champagne and stainless finish. |
| ROOF | The container roof to be roof painted with PU paint & Inner side false ceiling required with 6mm thick of marine ply wood, Putty and painted in white color. Proper work to be done using paint of Shalimar/Asian makes. |
| DOOR | The container main doorframe to be made up from cutting the container provide with L Angle sections of SS316 with size 50mmx50mmx3mm thick. The size of main door should be 1950x750mm. Inside door for each WC to be made up of SS 316 with 1mm thick/lulen/macro mat finish. Both side with PUF with 15-36 mm thick (raw material of Jindal/Sail Make). The door shall be fixed with the door frame with SS hinges. Each cubicle door shutter shall be |


| AIR VENTILATION | The air ventilation should be made out of SS 316 Mesh with SS316 L Angle Frame of size 25mmx25mm, thick 3mm, to be TIG welded to Container Wall. Six exhaust ventilator fan properly fitted should be provided per toilet container. (SS raw material of Jindal/Sail / Make in India). |
| FLOORING | Flooring covers on the top with rubber tile or metal epoxy. The design pattern / materials for the flooring shall be approved by the employer before installation. |
| ELECTRIFICATION | To be provided with 6 Nos. of light Points for each cubicle, and two surface mounted light (Philips Make) for common area section. Cubicle to have 8watt LED light and surface mounted to be of 1’x1’ square of 16-18 watts |
| OVER HEAD WATER TANK | To be provided with 2 nos of branded water tank made of Polypropylene having capacity of 500 ltr each. The tank height to be less than 2.5ft. Properly fitted on container roof |

These facilities once developed by the contractor will have to be maintained for its serviceability, maintainability and utilization.

(B) SPECIFICATION FOR PORTABLE TOILET FEMALE BLOCK – 6 seats (3IWC+3EWC)

| LAYOUT | The exterior dimensions of the container is to be minimum 20’ x 8’ x 8’ with a tolerance of +10%. Each toilet block should consist of 3nos IWC + 3Nos EWC + 1 No’s of common Long Mirror for wash basin with SS316 frames (Max. Size 1500mmLx460mmL) and two numbers of wash basins aesthetically fitted. All internal accessories like WC, IWC, Mirror Frame & washbasin to be made of SS 316 material. Common wall are opposite the door to be covered with PVD coated panel in 1mm thickness with SS 316 in gold (mirror), Champagne (mirror) and stainless mirror finish. |
| OUTER STRUCTURE | The outer structure to be made of pre-manufactured second hand container. The structure shall be reworked and to be PU painted with proper primer base work and anti corrosive paint. Paint to be of Shalimar/Asian make. |
105

INNER WALL AND
CLADDING

To be of SS316 Box Section frame of 20x20x2mm thick along with
SS panel made up of SS316 with 1mm thick /linen/macro mat finish
supported with proper plywood pasting with 10mm thick. The total
thickness of sandwich panel should be 20mm for toilet cabin partition
with the base &frame work made up of 1.6mm thick SS316/SB finish.
The toilet cabin door sandwich panels should have minimum 15mm to
36mm thick with mortise lock arrangement. The Inner wall &
cladding should be anti finger coating. Wall in common area to be
covered with PVD coated panel in SS 316 of thickness in gold,
Champagne and stainless finish.

ROOF

The container roof to be roof painted with PU paint & Inner side false
ceiling required with 6mm thick of marine ply wood, Putty and
painted in white color. Proper work to be done using paint of
Shalimar/Asian makes.

DOOR

The container main doorframe to be made up from cutting the
container provide with L Angle sections of SS316 with size
50mmx50mmx3mm thick. The size of main door should be
1950x750mm. Inside door for each WC to be made up of SS 316 with
1mm thick/linen/macro mat finish. Both side with PUF with 15-36
mm thick (raw material of Jindal/Sail Make). The door shall be fixed
with the door frame with SS hinges. Each cubicle door shutter shall be
provided with 1 nos. of mort ice lock, 1nos of tower bolt. Main door
of container shall be provided with one number AL drop outside. (SS
raw material of Jindal/Sail/ Make in India)

AIR VENTILATION

The air ventilation should be made out of SS 316 Mesh withSS316 L
Angle Frame of size 25mmx25mm, thick 3mm, to be TIG welded to
Container Wall. Six exhaust ventilator fan properly fitted should be
provided per toilet container. (SS raw material of Jindal/Sail / Make in
India).

FLOORING

Flooring covers on the top with rubber tile or metal epoxy. The design
pattern /materials for the flooring shall be approved by the employer
before installation.

ELECTRIFICATION

To be provided with 6 Nos. of light Points for each cubicle, and two
surface mounted light (Philips Make)for common area section.
Cubicle to have 8watt LED light and surface mounted to be of 1’x1’
square of 16-18 watts

OVER HEAD

To be provided with 2 nos of branded water tank (Syntax) made of
Polypropylene having capacity of 500 ltr each. The tank height to be


These facilities once developed by the contractor will have to be maintained for its serviceability, maintainability and utilization.

TO ENSURE QUALITY OF WORK & WORKMANSHIP, FOLLOWING ARE REQUIRED:

01. All fabrication to be done using CNC laser cutting, CNC Bending & NC rolling machine at shop floor for ease of assembly. All welding joint should be TIG welded.
02. The supplier should have manufacturing set up should be certified with EN-15085 and ISO 9001:2015 from a recognized agency.
03. All Weld joints should be as per EN ISO 15609-1:2004. Welder should certified by authorized agency for safety, efficiency & quality as per EN 287-1.
04. All tolerances of structure should as per EN ISO 13920.
05. The OEM should have their own manufacturing unit and experience of minimum 03 years in making “SS prefabricated structures, products and street furniture”. In support of this a copy of their factory registration certificate & PO copy with execution documents, of two years old or more, should be submitted along with the bid.
06. The OEM should have manufactured and supplied at least 50 Nos. of similar item any PSU / Central Govt. / State Govt. / Public Limited Company, during last three years. In support of this, copies of Purchase Orders with Tax Invoices / Bill of Lading should be submitted with the bid.
07. All Raw materials to be use should have manufacturing set up in India- in line with Make in India.
08. The toilet or restroom facilities must be easy to locate through signage and through information on the map or main information board.
09. Toilet or restrooms facilities must be equipped with washbasins, soap and clean towels (paper or cloth) or a hand-dryer.
10. The toilet facilities must be disabled friendly also. It must have provision for small children too. Access to the toilet/restroom facilities must be safe.
11. The water required for flushing the urinals must be recycled and commode design to be bio-toilets so that no residual discharge is required.
12. Consideration should also be given to the design and maintenance of these facilities. They should be well integrated within the built and natural environment and they must be regularly maintained so as to present a well-maintained appearance and to prevent vandalism of buildings.
13. The toilet/restroom facilities must be kept clean at all times. There shall be dedicated janitorial staff/s to look after the hygiene needs of each toilet block.
14. The frequency of checking and cleaning the facilities must reflect the intensity of use.
15. Beaches with a high number of daily visitors must have their facilities checked and cleaned every day or several times a day and such checks must be recorded for degree of cleanliness.
16. Use of only environmentally friendly cleaning materials, soap, tissue papers and paper towels is recommended.
17. There should be any bad odour from toilet blocks and therefore it must be disinfected at least every 2 hour in a day with the help of good quality disinfecting agent essentially made of biodegradable ingredients.
BIO-DIGESTER /BIO-TANK UNIT:

The contractor is required to install a “Bio Digester” block in which human waste is reduced to biogas & pure water with the help of bacterial inoculum. The residual water must be used for irrigation/horticulture or usage such as flushing of urinals. Bio digester is a specially designed fermentation tank for accelerated microbial degradation of organic waste.

1) The bio-digester tank (fermentation chamber) should be made of stainless steel (SS) with a capacity suitable for 100 flush cycles/day other than urinals with provision of inlet for human waste and outlets for treated effluent and biogas.
2) Should have pH of 6 to 9, TDS < 350 mg/100 ml, COD < 2000 ppm.
3) The tank should be able to work effectively for 50 users/day
4) Night soil should degrade through microbial reaction and converts it into biogas.
5) The process should result into treated effluent, which should be free from off odour, suspended particle matter, pathogens and should be environmentally acceptable. The working principle of bio-digester should be that “Human Excreta” from commode enter the bio digester tank from the toilet block that contains bacterial inoculum and the solid waste gets converted to biogas and pure water.

The specifications of Microbial consortium Anaerobic Bacteria (AB) culture to be used are as follows:

- Should be able to process doubling its population within 6 to 8 hours
- Should dominates and decompose solid waste in to liquid and gases
- Should be able to stay live for 3-4 months at ambient temperature
- Should be able to withstand sub zero temperature as well as upto 60 degree centigrade.
- Charging of Inoculum should be done not less than 5°C Temperature.
- Cold temperature should not affect the inside processing because: Anaerobic process is exothermic in nature thus, in cold regions heat will be available inside the chamber because of chemical process.
- Microbial consortium to be used for decomposing should be a mixture of different types of bacteria (hydrolytic, acidogenic, acetogenic and methanogenic groups) responsible for breakdown of complex polymers into simple sugars which are further broken down into low chain fatty acids and finally into biogas.
- The microbial consortium has been gradually adapted to grow even at 5°C so that it can work efficiently at mesophilic as well as psychrophilic temperature.
- Microbial consortium should efficiently degrade human waste at temperature as low as 5°C and as high as 50°C.
- The contractor will have to ensure effective biodigestion of waste and periodic replenishment of culture/bacteria for the same.

1.2 Changing Room with Shower Panels Facility:

The Bidder will be required to supply and install the pre-fabricated container based changing room fitted with shower panels outside. The scope includes design, fabrication, commissioning and running the toilet operation. The toilet blocks must be housed inside a bamboo enclosure as shown in the layout drawings.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Prefabricated changing room structures shall be suitable for mounting on readymade concrete floor (requisite civil works to be carried out by</th>
</tr>
</thead>
</table>


| LAYOUT | The exterior dimensions of the standard container is to be minimum 20’ x 8’ x 8’ with a tolerance of +10%. Each changing block should consist of 3nos of changing cabin for male & 3nos for female with 30±2mm thick of partition wall for separating the male & female block. The separate entry required for each block of male & female. Common wall are opposite the door to be covered with PV coated panel in 1mm thickness with SS 316 in gold (mirror), Champagne (mirror) and stainless mirror finish. Total 6 numbers of wall mounted overhead round shower provision along with shower head make of Jaguar/ hindware/Marc will be done on left hand & right hand at outer side of container. |
| OUTER STRUCTURE | The outer structure to be made of pre-manufactured second hand container. The structure shall be reworked and to be PU painted with proper primer base work and anti corrosive paint. Paint to be of Shalimar/Asian make. |
| INNER WALL AND CLADDING | To be of SS316 Box Section frame of 20x20x2mm thick along with SS panel made up of SS316 with 1mm thk /linen/macro mat finish supported with proper plywood pasting with 10/12mm thk. The partition holding frame & Pillar made up of SS316/1.6mm thk. The total thickness of sandwich panel should be minimum of 20mm for each cabin partition & maximum of 30mm for block partition. The each cabin having one number of hangers. The changing room haveing total eight numbers of long mirrors with SS316 frames (Max. Size 1500mmLx460mmL). Inner wall & cladding to be anti finger coated. Common wall are opposite the door to be covered with PVD coated panel in SS 316 with thickness of 1mm in gold (Mirror), Champagne (Mirror) and stainless mirror finish. |
| ROOF | The container roof to be roof painted with PU paint & Inner side false ceiling required with 6mm thk of marine ply wood, Putty and painted in white color. Proper work to be done using paint of Shalimar/Asian makes. |
| DOOR | The container main door frame to be made of from cutting the container provide with L Angle sections of SS316 with size 50mmx50mmx3mm thick. The size of main door should be 1950x750mm. Inside door for each cabin to be made of SS316 with 1mm thk /linen/macro mat finish. Both side with PUF with 15-36 mm thick (raw material of Jindal/Sail Make). The door shall be fixed with the door frame with SS hinges. Each cubicle door shutter shall be provided with 1 nos. of cylindrical lock, 1nos of tower bolt or engaged |
vacant lock. Main door of container shall be provided with one nosaldrop outside on each entry. (SS raw material of Jindal/Sail Make)

<table>
<thead>
<tr>
<th>AIR VENTILATION</th>
<th>The air ventilation should be made out of SS 316 Mesh with SS316 L Angle Frame of size 25mmx25mm, thick 3mm, to be TIG welded to Container Wall. Four exhaust ventilator fan properly fitted should be provided per toilet container. (SS raw material of Jindal/Sail Make)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLOORING</td>
<td>Flooring covers on the top with rubber tiles or metal epoxy. .</td>
</tr>
<tr>
<td>ELECTRIFICATION</td>
<td>To be provided with 6 Nos. of light Points for each cubicle, and two surface mounted light (Phillips Make) for male and female common area section. Cubicle to have 14-18 watts light and surface mounted to be of 1’x1’ square of 18-20 watts.</td>
</tr>
<tr>
<td>OVER HEAD WATER TANK</td>
<td>To be provided with 2 nos of SS water tank made of SS 316 having capacity of 500 ltr each. The sidewall of tank should be 1.6mm thick &amp; top in 1.2mm thick / SS316. Tank height to be less than 2.5ft. And Properly fitted on container roof.</td>
</tr>
</tbody>
</table>

These facilities once developed by the contractor will have to be maintained for its serviceability, maintainability and utilization.

1.3 Grey Water Treatment Plant (GWTP) facility:

The toilet or changing room/shower facilities must have controlled sewage disposal and therefore there must be a provision of zero wastewater treatment plant so that water can be recycled/reused for this purpose. Sewage or effluent from the toilets must not enter the ground or the water untreated and for this bio-toilets are installed. For facilities located outside of areas serviced by the municipal sewage system and/or remotely located beaches, individual treatment and regularly emptied holding tanks that prevent untreated sewage, effluent or seepage from entering the ground or the water - and which do not adversely affect the environment - are acceptable. Therefore, for the discharge from shower panels, washbasins and urinals must be recycled for further use. A Grey Water Treatment Plant on FAB (FLUIDIZED AEROBIC BIO-REACTOR) process should be designed, supplied, installed & commissioned. The design requirements are:

i. Capacity should be 10 cum/day with a plant working of 20 hours.
ii. The plant & equipment room should be above ground level.
iii. The Filtrate from SDB shall be returned to CT.
iv. The estimated quantity of the wastewater should be maximum 10 cum/day and the space required for GWTP is shown in layout drawing.
v. The process should be capable of taking highest shock loads, highest efficiency, minimal sludge, digested sludge and hence no separate sludge treatment.
vi. The connecting load should be around 14.30 HP and operating load about 7.30 HP.
vii. The GWTP should have a compact design to occupy a relatively small place.
viii. It should be minimal & unskilled operation.
ix. Should require low energy input.
Should be strictly “No Odor” nuisance and should produce useful end products.

The treated Grey water should be reused for gardening/flushing.

Biological sludge should be highly stabilized, so that can be used as manure.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Parameters</th>
<th>Unit</th>
<th>Raw Grey Water</th>
<th>Treated Grey Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.</td>
<td>Flow</td>
<td>cum/day</td>
<td>10</td>
<td>9.0 - 9.5</td>
</tr>
<tr>
<td>02.</td>
<td>Ph</td>
<td>---</td>
<td>6.0 – 7.0</td>
<td>6.5 – 7.5</td>
</tr>
<tr>
<td>03.</td>
<td>C.O.D.</td>
<td>mg/l</td>
<td>200</td>
<td>&lt;50 - 75</td>
</tr>
<tr>
<td>04.</td>
<td>B.O.D.</td>
<td>mg/l</td>
<td>100</td>
<td>&lt;10</td>
</tr>
<tr>
<td>05.</td>
<td>Total Suspended Solids</td>
<td>mg/l</td>
<td>100</td>
<td>&lt;10</td>
</tr>
<tr>
<td>06.</td>
<td>Oil &amp; Grease</td>
<td>mg/l</td>
<td>NIL</td>
<td>NIL</td>
</tr>
</tbody>
</table>

The process descriptions, units, equipment and electrical details are described as under:

**PROCESS - FLUIDIZED AEROBIC BIO-REACTOR (FAB):**

The Grey Water generated from beach shower and urinal facilities should be collected in collection sump (CT) and further will be pumped to Primary settling tank (PST). In primary setting tank, grit/sand should be allowed to settle down and clear supernatant will be collected in Equalization tank (EQT). The settled grit/sand will be pumped to Sludge drying beds. From equalization tank Grit free Grey water should be pumped to Fluidized Aerobic Bioreactor (FAB) tank. The FAB must consist of tank filled with special media. These media shall be made of specially developed material of control density such that they can be fluidized using an aeration device. A bio film develops on the media, which moves along with the effluent in the reactor. The movement within the reactor is generated by providing aeration with the help of air grids placed at the bottom of the reactor. The thin bio film on the media should enables the bacteria to act upon the bio degradable matter in the effluent and reduce BOD/COD content in the presence of oxygen from the air that is used for fluidization.

The aerated liquid should overflow to Tube Settler (TS) for separation of solids from liquid. The settled Grey Water should be collected in Intermediate Storage Tank (IST) & then should be pumped through Dual Media Filter (DMF), Activated Carbon Filter (ACF) and Chlorine Dosing tank (CD) to Treated water storage tank (TWST). Sodium hypochlorite solution should be added as disinfectant. From storage tank, treated Grey Water should be reused for gardening/flushing. The excess sludge from tube settling tank should be pumped to Sludge Drying Beds (SDB) for sludge dewatering. The Filtrate from Centrifuge shall be drained to CT.

**Electrical /Instrumentation Items:**

1. 1 No. LT Panel for GWTP comprising:
   - Cubical type -Non compartmentalized.
   - Floor / wall mounted
   - Incoming power control switches SFU.
• VAF Meter, phase indicating lamps,
• Individual MCB and starters.
• Auto / manual selector switch.

ii. Armored cabling from our panel to motor starters and earth pits.

iii. Energy Meter – 1 No.

iv. Pressure gauges to be provided on delivery main for pumps, blowers and vessels.

v. Rota meter: Rota meter on FAB airline Header.

vi. Pressure Gauge: Pressure gauge to be provided on Delivery mains for pumps & blowers.

vii. Level Switch: Level switch for on & off pump.

**Pipelines:**

The interconnecting piping, valves, gates, fitting within a specified battery limits to be provided. Follows items to be included within treatment plant limits.

(a) Pump Suction, Discharge Header : HDPE 6kg/cm², PE80
(b) Gravity & Interconnecting : HDPE 6kg/cm², PE80
(c) Air Submerged Line : HDPE 6kg/cm², PE80
(d) Air Non Submerged Line : MS CLASS B
(e) Dosing Lines : PU / HDPE
(f) Valves <80 NB : PP
(g) Valves >80 NB : CI Wafer Type

**PROPOSED UNITS AND EQUIPMENTS:** The various units are given as under:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Unit</th>
<th>Qty (Nos.)</th>
<th>MOC</th>
<th>Unit Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Collection Tank</td>
<td>1</td>
<td>RCC</td>
<td>As per attached drawing.</td>
</tr>
<tr>
<td>2.</td>
<td>Primary Settling Tank</td>
<td>1</td>
<td>RCC</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Equalization Tank</td>
<td>1</td>
<td>RCC</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>FAB tank</td>
<td>1</td>
<td>RCC</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Secondary TS tank</td>
<td>1</td>
<td>RCC</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Intermediate Storage Tank</td>
<td>1</td>
<td>RCC</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Treated Water Storage Tank</td>
<td>1</td>
<td>RCC</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Sludge drying Beds</td>
<td>2</td>
<td>RCC</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Pump room, Foundations, Platforms</td>
<td>1</td>
<td>RCC</td>
<td></td>
</tr>
</tbody>
</table>

• SCREEN : FABRICATED ITEM
• HDPE TANKS : RENO / SARITA / IMPACT
• PUMP : CRI / KBL / CNP
• BLOWER : AIRVAK / EVEREST / KPT
<table>
<thead>
<tr>
<th>Item</th>
<th>Make</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILTERS</td>
<td>ANY REPUTED MAKE</td>
</tr>
<tr>
<td>AIR DIFFUSER</td>
<td>CHENNAI FLOATING / REHAU / WELCOME</td>
</tr>
<tr>
<td>FAB MEDIA</td>
<td>ANY REPUTED MAKE MM AQUA / COOLDECK / PASCO</td>
</tr>
<tr>
<td>TUBE MEDIA</td>
<td>MARVELLOUS / SUYASH / MMAQUA</td>
</tr>
<tr>
<td>PRESSURE GAUGE</td>
<td>WAREE / WIKI / BAUMER / HGURU</td>
</tr>
<tr>
<td>ROTAMETER</td>
<td>TANSA/EUREKA / ASTER</td>
</tr>
<tr>
<td>LEVEL SWITCH</td>
<td>BLUETECH / ASTER / MINILEC</td>
</tr>
<tr>
<td>METERING PUMP</td>
<td>E DOSE / SANDUR / PROMINENT</td>
</tr>
<tr>
<td>HDPE PIPE</td>
<td>NOBLE / RELIANCE / FINOLEX</td>
</tr>
<tr>
<td>PP BALL VALVE</td>
<td>PARTH / EQU</td>
</tr>
<tr>
<td>CI VALVES</td>
<td>NORMAX / EXPERT / CASTLE</td>
</tr>
<tr>
<td>PIPE FITTINGS</td>
<td>ONLY APPROVED ITEMS</td>
</tr>
<tr>
<td>CONTROL PANEL</td>
<td>POWERWISE / ADVANCECONTROL / TECHNOCRAT</td>
</tr>
<tr>
<td>CABLE &amp; ACCESSORIES</td>
<td>POLY CAB / KEI / UNIVERSAL</td>
</tr>
<tr>
<td>FILTER PRESS</td>
<td>THORAT / PHARMATEC / ROYAL</td>
</tr>
<tr>
<td>SCREW PUMP</td>
<td>HP / ROTOMAC / ROTO</td>
</tr>
<tr>
<td>AGITATOR</td>
<td>FABRICATED ITEM</td>
</tr>
</tbody>
</table>

*** In case of non-availability of above makes, equivalent make with prior approval will be considered.

The contractor is required to do all civil works including site foundations, equipment foundations, platforms, trenches, raw water tank, collection tank, other as-deemed-fit civil or earth works, building drains, pipe and cable trenches, grouting, railings and staircases for equipment, shades, painting / lining of civil tanks, inserts, buried pipes, supports of air grids, media, mixers etc.

*These facilities once provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.*

1.4 Treated Bamboo Housing Work:

The contractor is required to provide enclosure housing for the containers based toilet blocks, changing rooms and other facilities/installations with treated bamboo work.

The bamboo cane (bambusabalcocoabambusa bamboos/dendrocalamusstocksi or equivalent for PURLINS/ Beams with minimum thickness of 10 mm & distinctive internodes (300mm max) Size 50 mm (+/- 5mm) diameter well seasoned (minimum 3 to 6 years) should be cut and treated with preservative inside the bamboo pole, & dosing with CCB (Chorium Copper Bromate) using pressure vacuum treatment plant with retention level minimum 8% and in accordance with IS 9096. The frame should be connected by articulated joints preferred with bamboo wedging without filling including bending of bamboos as per design or MS/SS bolt, studs, GI plates coated with epoxy coating with shingle roofing having top layer of bamboo shingle made of flattened CCB pressure treated bamboo in size of 450 mm X 150 mm and 3 to 5 mm thickness, perpendicular to rafter/beam at spacing of 150 mm c/c.

The work should be carried out with proper care as the bamboo walls should be fixed on to the container exterior walls with the help of frame duly strengthened for firm erection and support so that it
doesn’t shake during storms. The bamboo work must be done by expert who have substantial expertise in carrying out such work in Indian conditions in past. The fixing of walls and shingle roofing must be done in accordance with layout drawings.

These facilities once developed by the contractor will have to be maintained for its serviceability, maintainability and utilization.

1.5 Solar Power Plant facility:

The work shall include Design, Fabrication, Manufacturing, Supply, Installation, Testing & Commissioning of Solar PV Power Plant of 40 Kw Capacity, at nominated beaches on turnkey basis. The scope of work shall include:

A. All works required for proper installation of Solar PV Power Plant including necessary civil works for mounting structures of solar module, shall be done by the contractor. The entire work shall be performed on turnkey basis. All the works related to the proper installation and functioning of the systems shall have to be carried out by the contractor in the prices offered by him.

B. The generated electricity from the Power Plant will be utilized in place of grid power. Necessary electric cable/connection shall be supplied/made by the bidder as per the requirement at site.

C. All the wiring required to energies the propose load shall have to be done by the contractor including supply of all required materials. The wiring shall have to be done in concealed conduits.

D. All necessary electrical wiring from existing electrical distribution box up to PCU of Solar PV Power Plant and back from PCU to distribution box shall have to be done by the contractor including supply of all required materials.

E. Necessary arrangements for storage of batteries of Solar PV Power Plant as per requirement for their proper protection shall have to be done by the contractor. Appropriate Cabinets for battery banks, with the provision of racks for batteries should also be done. If required, battery room of the adequate size with proper ventilation shall have to be prepared according to the direction of engineer in charge at site.

F. After completion of the proposed works, clearances of all temporary works/ materials shall be the sole responsibility of the contractor and this shall be removed immediate after the requirement of such temporary work is completed.

G. General Aesthetics & cleanliness in regard to the installation of various systems shall have to be maintained in accordance with the aesthetics of the site.

H. Arrangement of proper earthing mechanism and lightening arresters should be done at site as per the requirements of the Solar Power plant.

I. The contractor shall supply/ install the necessary tools/instruments required for proper operation of the plant and to measure PV array Voltage, Current, Power and solar radiation.

J. Supply and Installation of Display board of 6’ X 4’ size showing all technical information of SPV plant shall be done by the contractor. The matter written on these boards shall be finalized with State Renewable Energy Department.
K. The complete Solar PV Power Plant shall be warranted and maintained by the contractor against any manufacturing/ design/ installation defects for a minimum period of 5 years from the date of installation.

L. Warrantee, operation and Maintenance period will include rectification /replacement of all the defective and consumable components/items including batteries. However all the non functional parts/ materials/ items replaced during the Warrantee, operation and Maintenance period shall be the property of the contractor.

M. After commissioning of the plant, the contractor will conduct one on-site training of the purchaser’s/user’s personnel regarding assembly, start-up, operation, maintenance and repairs of the Solar PV Power Plant.

N. During 5 year’s Warrantee, operation & maintenance period, the contractor will have to make all necessary arrangements including placement of required manpower at site for satisfactory operation, maintenance and performance of the Power Plant.

O. Rectification of all the defects developed in the Solar PV Power Plant during Warrantee, operation and Maintenance period shall have to be done by the contractor promptly, at the most within 7 days from the date of receipt of compliant.

P. During Warrantee, operation and Maintenance period, the contractor shall have to submit annual performance & functionality report from user agency.

Q. During the Warrantee, operation and Maintenance period, MNRE / State REDA / users will have all the rights to cross check the performance of the Solar PV Power Plant. State REDA may randomly pick up its components to get them tested at Govt. / MNRE approved any test center. If during such tests any part is not found as per the specified technical parameters, State REDA will take the necessary action to recover the losses and to black list the firm and the same may be communicated to MNRE and other nodal agencies. The decision of State REDA in this regard will be final and binding on the tenderer.
**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Particular</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Size of Solar PV Array</td>
<td>Minimum 40,000 Wp</td>
</tr>
<tr>
<td>3</td>
<td>Size of Battery Bank</td>
<td>Minimum 48 Volts, 16000 AH at C/10 rate or equivalent.</td>
</tr>
<tr>
<td>4</td>
<td>Power Conditioning Unit</td>
<td>50 KVA Nominal Output Rating</td>
</tr>
</tbody>
</table>

### 1.0 PV MODULES:

#### 1.1

The 5 BB Cell PV modules must conform to the latest edition of any of the following IEC / Equivalent BIS Equivalent IS Standards for PV module design qualification and type approval:

- Crystalline Silicon Terrestrial PV Modules : IEC 61215 / IS14286
- Thin Film Terrestrial PV Modules : IEC 61646 /
- Concentrator PV Modules & Assemblies : IEC 62108

#### 1.2

In addition, the modules must conform to IEC 61730 Part 1-requirements for construction & Part 2 - requirements for testing, for safety qualification or Equivalent IS (Under Dev.).

#### 1.3

PV modules to be used in a highly corrosive atmosphere must qualify Salt Mist Corrosion Testing as per IEC 61701 / IS 61701.

#### 1.4 IDENTIFICATION AND TRACEABILITY

Each PV module must use a RF identification tag (RFID), which must contain the following information:

- (i) Name of the manufacturer of PV Module
- (ii) Name of the Manufacturer of Solar cells
- (iii) Month and year of the manufacture (separately for solar cells and module)
- (iv) Country of origin (separately for solar cells and module)
- (v) I-V curve for the module
- (vi) Peak Wattage, Im, Vm and FF for the module
- (vii) Unique Serial No and Model No of the module
- (viii) Date and year of obtaining IEC PV module qualification certificate
- (ix) Name of the test lab issuing IEC certificate
- (x) Other relevant information on traceability of solar cells and module as per ISO 9000 series.

Until March 2013, the RFID can be inside or outside the module laminate, but must be able to withstand harsh environmental conditions. However from 1st April 2013 onwards; RFID shall be mandatorily placed inside the module laminate.
2.0 BALANCE OF SYSTEM (BOS) ITEMS/ COMPONENTS:

The BOS items / components of the SPV power plants/ systems must conform to the latest edition of IEC/ Equivalent BIS Standards/ MNRE specifications as specified below:

<table>
<thead>
<tr>
<th>BOS Item / System</th>
<th>Applicable BIS /Equivalent IEC Standard Or MNRE Specifications</th>
<th>Standard Description</th>
<th>Standard Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge Controller/MPPT units</td>
<td></td>
<td>Environmental Testing</td>
<td>IEC 60068-2 (1,2,14,30)/ Equivalent BIS Std.</td>
</tr>
<tr>
<td>(For Solar PV Systems of 20 Wp to 100 KWp capacity)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charge Controller/MPPT units</td>
<td></td>
<td>Environmental Testing</td>
<td>Relevant IEC/BIS Std.</td>
</tr>
<tr>
<td>(For Solar PV Systems above 20 KWp capacity)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Conditioners/ Inverters</td>
<td></td>
<td>Efficiency Measurements</td>
<td>IEC 61683 / IS 61683</td>
</tr>
<tr>
<td>including MPPT &amp; Protections</td>
<td></td>
<td>Environmental Testing</td>
<td>IEC 60068-2 (1, 2, 14, 30) / Equivalent BIS Std.</td>
</tr>
<tr>
<td>(For Solar PV Systems of 20 Wp to 100 KWp capacity)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Conditioners/ Inverters</td>
<td></td>
<td>Efficiency Measurements</td>
<td>Relevant IEC/BIS Std.</td>
</tr>
<tr>
<td>including MPPT &amp; Protections</td>
<td></td>
<td>Environmental Testing</td>
<td>Relevant IEC/BIS Std.</td>
</tr>
<tr>
<td>(For Solar PV Systems above 20 KWp capacity)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Batteries</td>
<td></td>
<td>General Requirements &amp; Methods of Testing Tubular GEL</td>
<td>As per relevant BIS Std.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Capacity Test</td>
<td>As per relevant BIS Std.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Charge/Discharge Efficiency</td>
<td>As per relevant BIS Std.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-Discharge</td>
<td>As per relevant BIS Std.</td>
</tr>
<tr>
<td>Components</td>
<td>General Test and Measuring Method</td>
<td>International Standards</td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td>Cables</td>
<td>PVC insulated cables for working voltage up to and including 1100 V and UV resistant for outdoor installation</td>
<td>IEC 60227 / IS 694</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>IEC 60502 / IS 1554 (Pt. I &amp; II)</td>
<td></td>
</tr>
<tr>
<td>Junction Boxes/Enclosures for Inverters/Charge Controllers/Luminaries</td>
<td>General Requirements \nIP 54(for outdoor)/ IP 21(for indoor) as per IEC 529</td>
<td>IP 54(for outdoor)/ IP 21(for indoor) as per IEC 529</td>
<td></td>
</tr>
</tbody>
</table>

- In case if the Charge controller is in-built in the inverter, no separate IEC 62093 test is required.
- Various components of Solar Power Plant must additionally conform to the relevant national/international Electrical Safety Standards wherever applicable.
3.0 MODULE MOUNTING STRUCTURE

Modules shall be mounted on a non-corrosive support structures towards due south and at a suitable inclination to maximize annual energy output. Support structure design and foundation or fixation mounting arrangements should withstand horizontal wind speed up to 120 km/ hr. In snowbound areas the structure should be capable of withstanding load of snow.

Support structures shall be manufactured with steel angles & channels; spray galvanized to IS 1477 Part -1 with thickness of 70 microns as per IS 5905. All fasteners shall be of Stainless steel - SS 304.

The foundation for Module Mounting structures shall be 1:2:4 PCC Construction. There shall be minimum necessary clearance between ground level and bottom edge of SPV modules.

4.0 DC DISTRIBUTION BOARD (DCDB)

A DCDB shall be provided in between PCU and Solar Array. It shall have MCCB of Suitable rating for connection and disconnection of array section. It shall have meters for measuring Array voltage and Array current.

5.0 TEST REPORTS

For small capacity PV modules upto 50Wp capacity, STC performance must be tested and approved by one of the IEC / NABL accredited testing laboratories including Solar Energy Centre. However higher wattage regular PV modules must additionally qualify as per relevant IEC standard.

Enclose Test reports/ certificate from IEC/NABL accredited laboratory in this regard. The validity of the Certificates/Reports should be at least till March 2013.

6.0 AUTHORIZED TESTING LABORATORIES/ CENTERS

Test certificates / reports for the BoS items/ components can be from any of the NABL/ IEC Accredited Testing Laboratories or MNRE approved test centers. Details of Test Labs are given in Annexure II.

7.0 MAIN FEATURES & OPERATING MODE

• Clean regulated power to the load
• “No-break” transfers from renewable energy to battery and battery to grid.
• MPPT solar charge regulator.
• The PCU shall operate with solar priority for feeding load and charging batteries.
•Stored power from batteries shall be the second priority to feed the load.
• Grid power shall be the last priority to feed the load. During such time, the PCU shall feed the load directly through grid and shall also charge the batteries. Battery Charging through Grid shall be taken up only when batteries are undercharged and solar is not available or insufficient.
8.0 WARRANTY

PV modules used in solar power plant must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.

The mechanical structures, electrical works including Power conditioners/ inverters/ charge controllers/ maximum power point tracker units/ distribution boards/ digital meters/ switchgear/ storage batteries, etc. and overall workmanship of the SPV power plants/ systems must be warranted against any manufacturing/ design/ installation defects for a minimum period of 5 years.

The Warrantee Card to be supplied with the Solar PV Power Plant must contain the details of the system supplied, as given in the Annexure- 1. The tenterers can provide additional information about the system.

9.0 OPERATION MANUAL

An Operation, Instruction and Maintenance Manual, in English and the local language, should be provided with the Solar PV Power Plant. The detailed diagram of wiring and connection diagrams should also be provided with the manual.

10.0 OTHER FEATURES

Only indigenously manufactured Solar PV Power Plant with capacity of at least 50MW production line per year which fully conform to the MNRE specifications shall be procured. All the technical & other requirements as per provisions under JNNSM of MNRE must be fulfilled. Use of imported Solar PV Modules is not permitted.

These facilities once developed by the contractor will have to be maintained for its serviceability, maintainability and utilization.
1.6 Purified Drinking Water Facility:

There should be a potable water source at the beach and it must be protected from contamination by animals by enclosing the unit with bamboo housing work. The technical specifications for potable water kiosks are as follows:

a) Should have tamper proof electronic counter and automated dispensing system.

b) Should be able to dispense both cold and ambient temperature water from 2 dispensing points simultaneously.

c) Water recovery from RO plant should be > 50%.

d) Dispensing points should be capable of dispensing in 250 to 300ml.

e) Should stop automatically after dispensing set quantity.

f) Shall meet with water quality of IS 10500-2012 conformance.

g) The purified water should be served in paper glass to be provided by contractor.

The detailed specifications are as follows:

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kiosk:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Qty.</td>
<td>1 No</td>
</tr>
<tr>
<td></td>
<td>Material of construction</td>
<td>Panels of ACP and flooring of Checkered MS steel plate coated with Zinc rich primer</td>
</tr>
<tr>
<td></td>
<td>Electrical</td>
<td>Pre wired with a 16 A MCB and necessary plug sockets for plugging units</td>
</tr>
<tr>
<td></td>
<td>Dimensions</td>
<td>Length – 6 Ft, Depth – 5 Ft and Height 9 Ft</td>
</tr>
<tr>
<td>2</td>
<td>Tanks:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Qty</td>
<td>2 No</td>
</tr>
<tr>
<td></td>
<td>MOC</td>
<td>HDPE Loft Tank</td>
</tr>
<tr>
<td></td>
<td>Capacity</td>
<td>RWT – 300 L and Reject Water Tank – 200 L</td>
</tr>
<tr>
<td></td>
<td>Make</td>
<td>Sintex/Reno/Equivalent</td>
</tr>
<tr>
<td></td>
<td>Location</td>
<td>Housed within the Kiosk</td>
</tr>
<tr>
<td>3</td>
<td>Storage Water Cooler with inbuilt RO Purifier:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Qty</td>
<td>1 No</td>
</tr>
<tr>
<td></td>
<td>No. of Filtration Stages</td>
<td>7 Stages comprising of Particulate Filter, Pre Carbon Filter, Membrane Life enhancing filter, Sediment Filter, RO filter, Post Carbon Filter, UV filter</td>
</tr>
<tr>
<td></td>
<td>Cooling Capacity</td>
<td>60 LPH</td>
</tr>
<tr>
<td></td>
<td>Permeate Production Capacity</td>
<td>50 LPH</td>
</tr>
<tr>
<td></td>
<td>Storage Capacity</td>
<td>80 Litres</td>
</tr>
<tr>
<td></td>
<td>Material of construction</td>
<td>SS 304 including the panels and tank</td>
</tr>
<tr>
<td></td>
<td>Input Power Supply</td>
<td>230 V 50 Hz 1 Phase</td>
</tr>
<tr>
<td></td>
<td>Power consumption</td>
<td>560 Watts</td>
</tr>
</tbody>
</table>
4 RO Purifier with inbuilt storage for Ambient Temperature water:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Filtration Stages</td>
<td>7 Stages comprising of Particulate Filter, Pre Carbon Filter, Membrane Life enhancing filter, Sediment Filter, RO filter, Post Carbon Filter, UV filter</td>
</tr>
<tr>
<td>Permeate Production Capacity</td>
<td>50 LPH</td>
</tr>
<tr>
<td>Storage Capacity</td>
<td>50 Litres</td>
</tr>
<tr>
<td>Material of construction</td>
<td>Skid of CRCA steel Powder Tank and storage tank in food grade plastic</td>
</tr>
<tr>
<td>Input Power Supply</td>
<td>230 V 50 Hz 1 Phase</td>
</tr>
<tr>
<td>Power consumption</td>
<td>60 Watts</td>
</tr>
</tbody>
</table>

5 Dispensing Station:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qty</td>
<td>1 Set comprising of 2 Pumps, Master Control and 2 dispensing stations along with necessary switches</td>
</tr>
<tr>
<td>Any Time Water</td>
<td>Make: Initiative, RFID card actuated with 5 pre-set quantities and can control upto 4 dispensing stations simultaneously</td>
</tr>
</tbody>
</table>

6 Remote Monitoring system:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qty</td>
<td>2 Nos – 1 for Storage Water Cooler with Inbuilt Purifier and 1 for RO Purifier with ambient temperature storage tank</td>
</tr>
<tr>
<td>Type</td>
<td>Cloud based using Web Browser for monitoring and GSM sim for connectivity.</td>
</tr>
<tr>
<td>Capability</td>
<td>Indicates qty of water produced and status of machine</td>
</tr>
</tbody>
</table>

These facilities once developed by the contractor will have to be maintained for its serviceability, maintainability and utilization.

1.7 Stainless Steel Litter Bins:

Fabrication supply & installation of Litterbins made of TATA/SAIL/Jindal grade SS 304 with 54+54 liter capacity. Litter bin to be of size 50x50x2mm thick with vertical pipe of 1mm thick dustbin sheet profile fixed on pivot for movement of 120 degree. 3 Nos. 120 x 80 x 6mm thick base plate fixed to floor with M10x100mm long sleeve fasteners (Canco/ Buon/ Equivalent Make) as per drawing /details.

(i) Minimum capacity of each dustbin should not be less than 26 kg.
(ii) All Weld joints should be TIG welded as per EN ISO 15609-1:2004.
(iii) Welder should be certified for safety, efficiency & quality as per EN 287-1.
(iv) All tolerances of structure should as per EN ISO 13920.
(v) Waste collection bins (preferably with covers) and environment friendly garbage
bags inside should be of a suitable design and appearance as well as functionality.

(vi) The bins on the beach should be regularly maintained, well secured, and spaced appropriately.

(vii) Individual bin capacity, the number of users on the beach and how frequently the bins are emptied determine the number and minimum space between bins placed on the beach.

(viii) During the peak tourist season, the spacing between bins and the frequency at which they are emptied should be increased as necessary.

(ix) The process of cleaning & emptying the bins must be duly documented so that it is strictly complied.

(x) Litter bins of 2 different colour duly earmarked for type of waste to be collected in each: GREEN & RED colour codes.

(xi) Both the bins must be stacked & placed together in the beach area.

(xii) The collected waste and that not recycled should only be disposed of in licensed facilities that are approved by authorities on the basis of environmental requirements.

_These facilities once provided by the contractor will have to be maintained for its serviceability, maintainability and utilization._

1.8 Seating Benches:

Fabrication, supply & installation of 3-seater bench having seat & back made of Ghana teak wood with enamel paint and side arm rest made of cast iron.

- **a)** Length of beach = 5 ft
- **b)** Floor to seat height = 16 inches
- **c)** Weight approx. 60-65 kgs

_These facilities once provided by the contractor will have to be maintained for its serviceability, maintainability and utilization._

1.9 Composting Machines for Recycling Solid Waste:

Solid waste in beaches comprises of bio & non-bio waste such as organic, food, horticulture, hard plastic, polyethylene, thermo coal, paper, glass metal and other types of solid waste. Although the objective of the solid waste management (SWM) under BEAMS is to collect, segregate, recycle and dispose, the effort should be to manage the generated solid waste in a scientific & holistic manner by way of installing composting & other methodologies for transforming solid waste into commodities. The complete unit must be housed inside a bamboo enclosure.

The entire SWM process is a material recovery unit and must be undertaken as follows:

- **(a)** Mix litter/solid waste will be collected in SS dustbins in a garbage bag placed inside it.
- **(b)** Dustbins bags will be removed and loaded in to hot air dryer for removal of moisture.
(c) Rotary valve will open for loading mix garbage on conveyor belt for dry waste recovery & segregation process
(d) Engaged staff conveyor belt will sort/segregate recyclable waste and will help in converting it into commodities.
(e) Inert will be also collected from conveyor belt.
(f) Organic garbage will be passed through belt and collected in a tray, which will be installed at end point of conveyor system.
(g) Collected organic waste will be fed in to composting machine for converting in to compost.

(h) Dry waste to be disposed off for further recycling. Entire process is shown in layout drawing.

(a) The specifications for dustbins & garbage collection bag are already given in this tender.

(b) The specifications for Hot Air Dryer for drying of solid waste are given below:

- Blower Motor Capacity= 1 HP
- Power Supply= 3 Phase
- Capacity= 100 kg/hour
- Material= SS-316
- Wall Thickness= 3mm
- Heater = 4kW
- Rotary Valve=YES
- Dimension= Diameter- 800 mm, Height =3.5 ft

(c) The specifications for Segregation conveyor belt:

- Motor capacity= 2 HP
- Power Supply= 3 phase
- Material = Structure to be made of SS316 and the rubber belt.
- Capacity= 100 kg/hour
- Dimension= 12 feet (L) x 2 feet (W) x 3.5 feet (H)

(d) The specifications for Composting unit should be as follows:

- The composting unit must be “Aerobic” composting methodology.
- The composting unit must have heating mechanism installed inside the machine to monitor temperature so as to avoid unwanted moisture.
- The composting unit must conform to SS-316 for all material contacts parts so as to ensure maximum life of machine.
- The composting unit must be easy to operate & maintain, and no manpower
required for shifting of raw compost to curing system.

The desired specifications of solid waste recycling/composting unit are:

<table>
<thead>
<tr>
<th>SHREDDER UNIT</th>
<th>COMPOSTING UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor Capacity</td>
<td>Motor Capacity</td>
</tr>
<tr>
<td>3 HP</td>
<td>2 HP</td>
</tr>
<tr>
<td>Electrical Type</td>
<td>Electrical Type</td>
</tr>
<tr>
<td>3 Phase</td>
<td>3 Phase</td>
</tr>
<tr>
<td>No. Of Motor</td>
<td>No. Of Motor</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Capacity</td>
<td>Capacity</td>
</tr>
<tr>
<td>200 to 225 kg/hour</td>
<td>50 kg/day</td>
</tr>
<tr>
<td>Blade</td>
<td>Blades &amp; Shaft, material tank, outer body</td>
</tr>
<tr>
<td>WPS/OHNS</td>
<td>Make by SS-316</td>
</tr>
<tr>
<td>Waste Type</td>
<td>Maintenance</td>
</tr>
<tr>
<td>Kitchen Waste, Garden Leaves,</td>
<td>Regular Cleaning and periodic oiling for gears</td>
</tr>
<tr>
<td>Organic Waste</td>
<td>and chain couplings</td>
</tr>
<tr>
<td>Forward/Reverse</td>
<td>Dimension (approx..)</td>
</tr>
<tr>
<td>Yes</td>
<td>6.2 feet L x 3.2 feet W x 5.2 feet H</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Output Size</td>
</tr>
<tr>
<td>Regular Cleaning and periodic</td>
<td>5 to 7 mm</td>
</tr>
<tr>
<td>oiling for gears and chain</td>
<td></td>
</tr>
<tr>
<td>couplings</td>
<td></td>
</tr>
</tbody>
</table>

**Other Technical Specifications of Fully Automatic Composting Machine:**

<table>
<thead>
<tr>
<th>Per day waste processing capacity of composting system</th>
<th>Total Processing Capacity - 50 kg/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>3 Phase</td>
</tr>
<tr>
<td>Power Rating</td>
<td>8 kW</td>
</tr>
<tr>
<td>Pre-treatment system</td>
<td>Crusher/Shredder &amp; Grinder</td>
</tr>
<tr>
<td>Composting System</td>
<td>24 Hrs. Micro-organisms based composting</td>
</tr>
<tr>
<td></td>
<td>machine</td>
</tr>
<tr>
<td>Input</td>
<td>Segregated Organic Waste</td>
</tr>
</tbody>
</table>
Output  Dry organic compost
Composting Tank Material  Stainless Steel (SS) Grade 316
Control Panel  All control panel parts use for Schneider & L&T
Gear Box  Standard Helicon 3 stage gear
Shaft  SS high quality shaft
Operation & Processing  Fully Automatic and within 24 hrs.
Compost Removal  Once in 3-4 days
Curing System, Addition of sawdust & Micro-organisms  NA
Composting Method  Micro-organisms based natural composting in high temperature atmosphere with 80-85 % volume reduction

(e) The specifications for Dry Waste Disposal should be as follows:

- The remaining solid dry waste that was segregated should be given to nominated agencies for further recycling/re-use.
- The compostable garbage bags must be composted and not disposed off.
- The local authorities must be informed about this.

The facilities once developed / provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.

1.10 Sit-out Umbrella (Treated Thatch):

The contractor is required to install Sit-Out Umbrella for shades duly made of wooden material and roof made of treated thatch so that beachgoers can be relax, rejuvenate and meet their recreational needs.

a) Providing and fixing after cutting in proper size and shape bamboo pole of bambusabalcooa / bambusa bamboos / dendrocalamusstocksi or equivalent for PURLINS/ Beams with minimum thickness of 10mm & distinctive internodes (300mm max) Size 50mm (+/- 5mm) diameterwell seasoned by freshly cut canes including treatment with preservative inside the bamboo pole, & dosing with CCB (Chromium Copper Bromate) using pressure vacuum treatment plant with retention level minimum 8 % and in accordance with IS 9096. The framing is connected by articulated joints preferred with bamboo wedging without filling, including bending of bamboos as per design or MS/SS bolt, studs, GI plates coated with epoxy coating,
including transportation and cost of material, necessary scaffolding with all lead, lift, machinery & equipment charges, etc. complete, as directed by the Engineer in charge bamboo beams and purlins

b) Providing and fixing after cutting in proper size and shape bamboo pole of bambusabalcooa / bambusa bamboo or equivalent with minimum thickness of 10mm & distinctive internodes (300mm max) Size 100mm (+/- 10mm) diawell seasoned by freshly cut canes including treatment with preservative inside the bamboo pole, & dosing with CCB (Chorium Copper Bromate) using pressure vacuum treatment plant with retention level minimum 8% and in accordance with IS 9096. The framing is connected by articulated joints preferred with bamboo wedging without filling. MS /SS bolt, studs, GI plates coated with epoxy coating, including transportation and cost of material, necessary scaffolding with all lead, lift, machinery & equipment charges, etc. complete, as directed by the Engineer in charge. bamboo (column)

c) Providing and fixing SHINGLE roofing with top layer of Bamboo shingle, made of flattened CCB pressure treated bamboo in size of 450 mmx 150mm and 3 to 5 mm thick, perpendicular to rafter/beam at spacing of 150 mm c/c which is included.

*These facilities once developed/installed by the contractor will have to be maintained for its serviceability, maintainability and utilization.*

1.11 **Recliner Chairs to be placed under sit-out thatch:**

The contractor is required to provide outdoor recliner chair as shown in the picture in pair under every sit-out thatch. These are also called lounger made of aluminum frame of 2.1 mm thickness (JINDAL/MAHAVIR grade) duly powder coated. The lounger chair should be cushioned with (RehauFibre) PVC wicker 6 mm half round flat in white colour for comfort and cushioning. The desired specifications are as follows:

i. The Fibre should be able to hold a load of 110 kgs on a single seater chair of upto 6 hours at 10 degrees C or upto 4 hours at 50 degrees C without any physical

ii. The UV exposure should not dampen the colour of the wicker.

iii. It should be chemical resistance that are used for cleaning agents.

iv. The recliner chair must be comfortable design as shown in the picture.

1.12 **LED Street Lights:**

Decorative LED (High Power single die with ceramic base only, and not multichip, mid power and COB type of led) post top cube shaped with a complete downward light and a opal drop diffuser offering good area lighting with circular distribution.

Luminaire should have polycarbonate cover with system IP66 protected and IK08 delivering a nominal light output of 2500 lumens at a CCT of 5700K with CRI>70.
The luminaire shall have an inbuilt surge protection of >4kV(CM/DM) and a life class L70 @50000 burning hours. The electronic potted isolated driver used shall be replaceable from top at site and have a driver Eff. of >85%, power factor >0.95, THD <10%, operates in a voltage range of 140-270 V AC.

The luminaire should have detachable bracket and suitable for mounting on a suitable decorative square pole. The luminaire is Class I protected and complies with all the required IEC and IS standards with 3 meter rectangular GI pole with double coating of PU paint to prevent pole from corrosion, base plate specs as : LXLXt= 200x200 x12, bracket, suitable to be used on coastal areas to prevent pole from corrosion.

Make: Philips/GE/WIPRO/SIEMENS

These facilities once installed & commissioned by the contractor will have to be maintained for its serviceability, maintainability and utilization.

1.13 Jogging track:

A jogging track or pathway is required to be built on the earmarked area of the beach using cost effective and durable materials. The size (length x width) of the track/path required is 2000 ft x 3.5 ft (Length x Width). Interlocking Concrete Block Pavement (ICBP) consists of a surface layer of small-element, solid un-reinforced pre-cast concrete paver blocks laid on a thin, compacted bedding material which is constructed over a properly profiled base course and is bounded by edge restraints/kerb stones. The block joints are filled using suitable fine material. A properly designed and constructed CBP/ICBP gives excellent performance when applied at locations where conventional systems have lower service life due to a number of geological, traffic, environmental and operational constraints.

Material Specifications are as follows:

- Classic look: Combination of brick red and yellow type C pavers block having all faces curved.
- Grade Designation: M35-M45 (compressive strength)
- Supreme finish: Finishing of pavers block
- Scratch resistance: Material of interlinked pavers block must be scratch proof.
- Thickness: 60 to 80 mm
- Capacity /Quality: Conforming to M30 certification (should be able to Withstand 1200kg on each tile)
- Side of the track: entire length to be guarded with metallic pole at every 10 to 15 ft distance with metallic chain connecting each pole duly covered with PVC sleeve to protect them from corrosion.
- Shape: Either elliptical, oval or circular depending upon space available
• Base: Made of concrete mixture duly grouted.

**Laying of Blocks:** Paver blocks can be laid generally by manual Labour but mechanical aids like hand-pushed trolleys can expedite the work. Normally, laying should commence from the edge strip and proceed towards central line. When paver blocks are used, the laying done at two fronts will create problem for matching joints in the middle. Hence, as far as possible, laying should proceed in one direction only, along the entire width of the area to be paved.

**Laying Pattern:** As shown in the image attached in the drawings section.

*These facilities once developed by the contractor will have to be maintained for its serviceability, maintainability and utilization.*

1.14 **Outdoor Fitness equipment:**

The Contractor must develop an area of 500 sq. mtrs. size (approx.) on the beach as “Fitness & Yoga Zone” & provide some basic fitness equipment/outdoor workouts for beachgoers. A list of items is given below. The material should be environment friendly and durable, long lasting. Proper grouting should be done in the ground for firm erection & commissioning of these equipment. All metallic structures should be with anti corrosive coating for prevention of corrosion.

(i) Outdoor Chest Press/Lateral Pull
(ii) Outdoor Triple Horizontal Bars
(iii) Outdoor Leg Press
(iv) Outdoor Parallel Bars
(v) Outdoor Push up Bars
(vi) Outdoor Sit Up Bench
(vii) Children slide
(viii) Swing

The design and size can be somewhat similar to the images. However, before selecting the item the contractor is required to consult Project Manager and Nodal Officer and approval should be taken so that payments can be made on this approval.

*These facilities once provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.*

1.15 **Amphibious wheel chair:**

The contractor is required to provide at least 1 amphibious wheel chair at the beach for disabled so that they can also use beach for recreational needs. It should have following features &specifications:

i. Excellent flotation and stability.
ii. Does not turn over in the water under normal conditions.
iii. It should be used with another person in attendance.
iv. It should have a life jacket for user to get off the chair to swim.
v. Should be able to move easily over sand and pebbles.
vi. It can move over any kind of terrain and even go down steps.
vii. It should be front-wheel driven which means it can be handled and steered using just one hand.
viii. Should have armrest so that user can relax in a comfortable position.
ix. The height of the seat should be lower than the average wheelchair to make it easy to transfer the user.
x. Should be resistant to sand and salt water.
xi. Should be made from very hardwearing material.
xii. Should be collapsible i.e. the chair can be dismantled and folded up, making it easy to transport in conventional vehicles.
xiii. Approximate dimensions should be – 1700 x 1070 x 1070 (Unfolded)
xiv. Weight should be around 25 kgs

*These facilities once provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.*

1.16 **Beach Safety and Information Flags:**

The contractor is required to install safety & information flags as per international standards, safety information and related messages to users of aquatic facilities and environs.

These standards set out the range of flags that might be used to identify conditions for wind, weather, water, and for a beach, and to identify designated zones for various aquatic activities. These standards include the possible locations for the flags at a coastline and for inland waters.

Beach safety flags are an item of coloured fabric or synthetic material, of an oblong or square shape, attached by one edge to a pole or rope and used to give a safety message

(i) **The requirements and standards are as follows:**

a) Flags are traditional devices for providing information to beach and water users, which should be properly utilized for a comprehensive safety system. Flags should only be used for waters normally designated for aquatic activity
b) These international standards flags to be adopted and adapted as ‘best practice’ exercise to match with blue flag beaches throughout the world for safety.

c) These safety flags greatly improve understanding of water users with respect to beach conditions and rules for foreign visitors particularly. It
will reduce language barriers. This standardization can therefore be expected to reduce the likelihood of death and injury.

d) Flags help reduce the incidence of injury and drowning, but cannot assist those in distress. Therefore, these flags are only to be used on beaches where lifesavers are on duty. Flags are not an acceptable substitute for properly trained and equipped rescuers, but rather a tool for their use.

e) All flags should be fixed type and not the flying flags as they lead to public confusion and offset the value of international standardization.

(ii) **Definitions of Safety Flags:**

a) **Risk:** combination of the probability of occurrence of harm and the severity of that harm

b) **Hazard:** potential source of harm

c) **Danger:** signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury

d) **Caution:** signal word used to indicate a potentially hazardous situation which, if not avoided, may result in minor or moderate injury

e) **Safety colour:** specific colour to which a safety meaning is attributed

f) **Colour code:** colours used to communicate a particular meaning

g) **Safety symbol:** graphical symbol used together with a safety colour and safety shape to form a safety sign

h) **Graphical symbol:** visually perceptible figure with a particular meaning to transmit information independently of language

i) **Visibility:** relative possibility of being visually perceived under the conditions of distance, light and atmosphere prevailing at a particular time

j) **Observation distance:** greatest distance from which a flag is legible and conspicuous.

k) **High location:** installation position at a level not less than 2 meters above ground level

l) **Ageing:** change of properties that occurs in materials with time after environmental conditioning

(iii) **Types of beach safety flags:**

a) **Yellow:** Medium hazard. Moderate surf and/or currents are present. Weak swimmers are discouraged from entering the water. For others, enhanced care and caution should be exercised.

b) **Red:** High hazard. Rough conditions such as strong surf and/or currents are present. All swimmers are discouraged from entering the water. Those entering the water should take great care.

c) **Double red:** Water is closed to public use.
d) **Purple**: Marine pests, such as jellyfish, stingrays, sea snakes or other marine life which can cause minor injuries are present in the water. This flag is not intended to indicate the presence of sharks. In this latter case the red and white quartered flag should be hoisted.

e) **Red/yellow (halved red over yellow)**: The area is protected by lifeguards. These flags may be used in pairs spaced apart to indicate a designated area or zone along a beach or waterfront that is most closely supervised or patrolled by qualified lifeguards, and where swimming and/or body surfing is permitted. These flags may be used singly to indicate that swimming is permitted in front of the area where the flag is flown and that the area is under the supervision of a qualified person.

f) **Black/White (Quartered)**: These flags may be used in pairs spaced apart to indicate a designated area or zone along a beach or waterfront that is used by those with surfboards and other non-powered watercraft.

g) **Yellow flag** with central black ball: Surfboards and other non-powered watercraft are prohibited.

h) **Orange windsock**: This cone shaped device is used to indicate the direction of offshore winds and to show that it is unsafe for inflatable objects to be used in the water.

i) **Red/White (Quartered)**: Emergency evacuation. Swimmers should leave the water because of an emergency. Emergencies may include, but are not limited to, dangerous marine creatures are present, such as a shark, crocodile etc, the water has become polluted due to run off, spillages etc, lifeguards need to perform a search of the water area, for example search for a lost child.

(iv) **Feathers**:

a) The visibility of flags may be improved by attaching to the flagpole a strip of fabric composed of the same material as the associated flag (a "feather") and arranged in the same colour disposition. The feather flag enhances the visibility of the designated bathing area to the beach and water user when viewed from the beach, along the shoreline, on approach to the beach and from the water, in particular on beaches and days that have a high volume of people within or adjacent the designated bathing area.

b) A feather, if flown, is designed such that the upper section is at least 50% of, and no wider than 75% of, the width of the full extended flag and narrows toward the top and bottom with rounded edges to:

- Reduce the incidence of whipping;
- Minimize fraying at the corners of the flag;
- Balance the need for visibility with ease of movement (portability) with tidal conditions, and
Remain more visible in very light or no wind conditions.

(v) **Supplementary text information:**

a. To ensure water users and members of the public are aware of the meaning of flags, beach users should be informed through signs, brochures, or similar means. The text may be fixed to the flagpole, or indicated on an information board or facility at the entrance to an aquatic location.

b. The text should be as brief as possible and give the prime meaning of the flag when hoisted.

c. Consideration should be given to the erection of information boards/notices, particularly at the entry points to aquatic locations. The information contained should include detail of the meaning of flags, locations and times of operation. This information may also be included in ‘tourist’ leaflets and publicity material.

(vi) **Guidance for the operation of “Safety Flags”:**

a. Flags should only be selected and utilized by the persons trained on their knowledge and expertise.

b. The flags should be attached by any reasonable means to poles, and erected so that the lowest point of the flag is not less than 2 meters above the immediate ground level. They should be positioned so that they can be readily seen by persons in or approaching the aquatic area or location. Flags should not be obstructed by other structures or by natural flora and fauna.

c. Except for the double red flag, yellow, and red flags shall not be flown at the same time. They are intended to indicate general conditions for the entire beach area, not for a particular area of beach.

d. As circumstances change, flags should be changed accordingly.

e. Flags used to zone a section of beach or water activity should be moved to suitable locations as changing conditions dictate.

f. Flags flown to provide information and/or instruction about such factors as prohibition of watercraft, offshore winds, or to identify an activity boundary should be removed when not required.

g. Because of the need to be present to monitor the conditions, and possibly to change flags, these systems should only operate during a prescribed and well publicized period each day. The presence of these systems may also relate to seasonal activity.

h. It is important that flags and particularly flagpoles should not become a hazard. Therefore the responsible location for placing flags should receive careful consideration at any planning stage.
i. Flags and flagpoles should be properly maintained. Flags have a limited lifespan, particularly in adverse weather conditions. Flags should be replaced once they become torn or faded.

(vii) **Design specifications:**

All flags are 750mm by 1000 mm and may be made of polyester or other suitable material. Further specifications in relation to flag material, colorimetric and photometric properties of the material, physical properties of polyester material, colour fastness and strength of the material can be referenced in the International Organization for standardization (ISO) standard ISO 20712-2 – “Specifications for beach safety flags – Colour, shape, meaning and performance”.

**Types of Beach Safety and Information Flags**

<table>
<thead>
<tr>
<th>Beach Safety Flag</th>
<th>Colour</th>
<th>Meaning</th>
<th>Pantone (PMS)</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Yellow Flag" /></td>
<td>Yellow</td>
<td>Medium hazard</td>
<td>PMS – 124</td>
<td>Rectangle</td>
</tr>
<tr>
<td><img src="image" alt="Red Flag" /></td>
<td>Red</td>
<td>High hazard</td>
<td>PMS – 186</td>
<td>Rectangle</td>
</tr>
<tr>
<td><img src="image" alt="Red over Red Flag" /></td>
<td>Red over Red</td>
<td>Water closed to public use</td>
<td>PMS – 186</td>
<td>Rectangles</td>
</tr>
<tr>
<td>Color Description</td>
<td>Message Description</td>
<td>Code</td>
<td>Shape Description</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>------------</td>
<td>--------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Purple Marine pests present</td>
<td>PMS – 266 Rectangle</td>
<td></td>
<td>Rectangle</td>
<td></td>
</tr>
<tr>
<td>Red over Yellow</td>
<td>Recommended swimming area with lifeguard supervision</td>
<td>PMS – 186</td>
<td>Rectangle with equal, parallel halves.</td>
<td></td>
</tr>
<tr>
<td>Red over Yellow</td>
<td>Recommended swimming area with lifeguard supervision</td>
<td>PMS – 124</td>
<td>Rectangle with equal, parallel halves.</td>
<td></td>
</tr>
<tr>
<td>Black and White (Quartered)</td>
<td>Watercraft area</td>
<td>PMS – 6 (black)</td>
<td>Rectangular flag with four equal rectangular quarters. Black upper left and lower right. White upper right and lower left.</td>
<td></td>
</tr>
<tr>
<td>Yellow flag with Black ball</td>
<td>Watercraft use prohibited (e.g. no surfboards)</td>
<td>PMS – 124 (yellow)</td>
<td>Rectangular yellow flag with central black ball shape, 500mm diameter.</td>
<td></td>
</tr>
<tr>
<td>Yellow flag with Black ball</td>
<td>Watercraft use prohibited (e.g. no surfboards)</td>
<td>PMS – 6 (black)</td>
<td>Rectangular flag with four equal rectangular quarters. Black upper left and lower right. White upper right and lower left.</td>
<td></td>
</tr>
<tr>
<td>Orange windsock</td>
<td>Offshore winds present, inflatable’s should not be used</td>
<td>PMS – 166</td>
<td>Cone shape 500mm at the hoist-tapering to 300mm x 1500mm long</td>
<td></td>
</tr>
<tr>
<td>Red and White (Quartered)</td>
<td>Emergency Evacuation</td>
<td>PMS – 186 (Red)</td>
<td>Rectangular flag with four equal rectangular quarters. Red upper left and lower right. White upper right and lower left.</td>
<td></td>
</tr>
</tbody>
</table>

*These facilities once provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.*

### 1.17 CCTV Cameras, cables, networks & wires with control unit:

**Specification**

- 2 Mega pixel EXIR Bullet (1920×1080) resolution
- Camera Image Sensor 1/3" Progressive Scan CMOS Min.
- Illumination 0.01 Lux @ (F1.2, AGC ON), 0 Lux with IR 0.014 Lux
- Lens 4mm, Angle of view: 85°(4mm)
- Capture motion video
- IR Range up to -30 /50/80 meters IR cut filters
- Ingress Protection Rate: IP66
- Type B Camera for Water Front & Common Area
  - Up to 4 megapixel high resolution
  - IR range - 30 Meters with IR cut filer
  - Ingress Protection Rate: IP67
  - IR range – 30/50/80 Meters IR Cut filters
  - Illumination 0.05Lux @ (F1.2, AGC ON) in the colour mode and 0.01Lux @ (F1.2, AGC ON) in B/W mode
  - Lens Mount M12
  - Compression Standard
  - Max Frame Rate 60Hz: Main stream: 20fps (2688×1520), 25fps (2048×1536), 30fps (1920×1080), 30fps (1280x960), 30fps (1280×720)
  - Sub stream: 30fps (352×240), 30fps (704×480)
  - Image Setting - Rotate Mode, Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser

General Function
- Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filtering, Anonymous access, log access of the user, 10 simultaneous connections.

Type C PTZ
- 1/2.8” Progressive Scan CMOS, 1920 x 1080, 20X Optical Zoom, DWDR, 3D intelligent positioning function, Support cloud P2P, Up to 150m IR distance, Hi-Poe / 24VAC power supply, Support BNC output
- Function Description
- Basic function: 3D intelligent positioning function • Power-off memory function: restore PTZ & Lens status after reboot • IP66 standard • Support cloud P2P
- Functions: Detections: intrusion detection, line crossing detection, audio exception detection, motion detection • Recording: edge recording,
- Camera function: Auto iris, auto focus, auto white balance, backlight compensation and auto day & night switch • Min. Illumination: 0.02Lux @(F2.0, AGC ON) (Colour), 0.002Lux @(F2.0, AGC ON) (B/W), 0Lux with IR • Support 8 privacy masks
- PTZ function: 360 ° endless pan range and -15 ° -90 ° tilt range • 400 ° /s Pan Preset Speed and 200 ° /s Tilt Preset Speed • 0.1 ° -400 ° /s Manual Pan Speed and 0.1 ° - 200 ° /s Manual Tilt Speed • 300 presets programmable; preset image freezing capability • 8 patrols, up to 32 presets per patrol
- IR function: 0 Lux minimum illumination • Up to 150m IR distance • IR light MTBF reaching up to 30,000 hours • Smart IR mode

The above types of cameras must be installed along with entire cable network of approximately 2 kms OFC whose specifications are given below:

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Description</th>
</tr>
</thead>
</table>
| RG6 and Power Cable
Un armoured | supply & laying of RG6+2 Core 1.5sq mm Power Cable with Conduit |
<table>
<thead>
<tr>
<th></th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Supply and Laying of RG6+2 Core 1.5sqmm Power Cable Armoured</td>
</tr>
<tr>
<td>3</td>
<td>Supply &amp; Laying of 6 core OFC Armoured cable</td>
</tr>
<tr>
<td>4</td>
<td>Supply &amp; Laying of HDPE Pipe 32mm For OFC or RG6 cable</td>
</tr>
<tr>
<td>5</td>
<td>Supply and laying of GI Pipes</td>
</tr>
<tr>
<td>6</td>
<td>Trenching for soft soil</td>
</tr>
<tr>
<td>7</td>
<td>Trenching for hard soil</td>
</tr>
<tr>
<td>8</td>
<td>Cat6 Cable UTP</td>
</tr>
<tr>
<td>9</td>
<td>Cat6 Patch cords</td>
</tr>
<tr>
<td>10</td>
<td>OFC Pig tails</td>
</tr>
<tr>
<td>11</td>
<td>OFC Patch cords/ SC/ST Type</td>
</tr>
<tr>
<td>12</td>
<td>Network GIGA Switches 24 ports</td>
</tr>
<tr>
<td>13</td>
<td>Media Converters Fiber to BNC</td>
</tr>
<tr>
<td>14</td>
<td>Monitor 32'</td>
</tr>
<tr>
<td>15</td>
<td>Wall Mounted Stand for Monitor</td>
</tr>
<tr>
<td>16</td>
<td>Joy stick</td>
</tr>
<tr>
<td>17</td>
<td>4 Core cable for RS485 Communication</td>
</tr>
<tr>
<td>18</td>
<td>Network Racks</td>
</tr>
<tr>
<td>19</td>
<td>Splicing Trays and LIU</td>
</tr>
<tr>
<td>20</td>
<td>3 Core 1.5sqmm Cables for Main Power</td>
</tr>
<tr>
<td>21</td>
<td>Power Sockets For active components</td>
</tr>
<tr>
<td>22</td>
<td>Junction Boxes/ waterproof for Outdoor switches/LIUs/Splicing and Media Converters</td>
</tr>
<tr>
<td>23</td>
<td>PVC Junction Boxes for termination</td>
</tr>
<tr>
<td>24</td>
<td>Mounting Stands / Camera Housing anticorrosive IP66</td>
</tr>
<tr>
<td>25</td>
<td>Mounting Poles 5mtrs</td>
</tr>
<tr>
<td>26</td>
<td>Mounting Poles 4mtrs</td>
</tr>
<tr>
<td>27</td>
<td>Pole Mounting Brackets for PTZ</td>
</tr>
<tr>
<td>28</td>
<td>Halogen PIRs</td>
</tr>
<tr>
<td>29</td>
<td>OFC Splicing Charges</td>
</tr>
<tr>
<td>30</td>
<td>UPS Supply</td>
</tr>
</tbody>
</table>

*These facilities once developed/provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.*
1.18 Mechanical Raking (Cleaning) Machine:

The contractor to ensure that the beach and surrounding areas including paths, parking areas and access paths to the beach must be clean and maintained at all times. The beach sand needs to be cleaned mechanically by surf raking machine at least once a week or as advised by local authorities from time to time or on specific needs/demands. Some of the important points to be noted are:

(i) Litter should not be allowed to accumulate causing these areas to become unsightly or hazardous.
(ii) The beach must comply with national guidelines or legislation concerning litter and waste management.
(iii) Beach cleaning should be done both mechanically and manually.
(iv) Deep cleaning of the sand should be done to remove small particles such as cigarette butts, stones, plastic wrappers, pouches, glass and metallic particles etc. with the help of mechanical surf rake as per laid down specifications below.
(v) During storm water flows, the outlets and surrounding areas must be kept clean.
(vi) When cleaning the beach, this must be done with consideration for local flora and fauna, e.g. where turtles may have buried eggs in the sand.
(vii) The use of insecticides or chemicals for cleaning the sand or surrounding environment is not allowed.
(viii) The cleaning of “Marine Protected Areas” including algal waste and seaweed as well as sensitive areas (sand dunes, etc.), must be done in accordance with the laws and advice from the relevant authority.
(ix) To determine the cleanliness level of the beach, Beach Litter Measuring System (BLMS) be used for monitoring the performance of contractor.
(x) The execution of contract will be considered satisfactory only if the cleanliness ratings (BLMS) are maintained as A+ or A.

MECHANIZED CLEANING OF BEACHES:

Beach sand cleaning must be done with the help of mechanical means such as surf rake having tractor-towing mechanism. The mechanical surf raking machine along with towing mechanism must be owned/hired by contractor for the period of contract.

The technical Specifications for Sand Cleaning Machine (Surf Rake) are:

<table>
<thead>
<tr>
<th>HYDRAULIC DRIVE</th>
<th>Completely sealed and protected by full flow filter. Large capacity spline mounted cast iron pump, hydraulic motor, flow control, and built-in overflow protection.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONVEYOR &amp; TINES</strong></td>
<td>Of bar flight type with chain and sprocket drive, covered with continuous 1,2 m wide NBR belt, which will not stretch or corrode with 370 Stainless steel tines in 1,2 m rows OR Screening belt different sizes with spring tines 40 pcs mounted on the front rake</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>HOPPER</strong></td>
<td>&gt; 1,50 cubic meter (1600 kg cap.) approx.. Hot dip galvanized</td>
</tr>
<tr>
<td><strong>DUMP HEIGHT</strong></td>
<td>Between 2.5 to 2,75 meters</td>
</tr>
<tr>
<td><strong>TYRES</strong></td>
<td>78.7 x 34.3 x 38.1 cm high flotation design OR 520/50-17 floatation</td>
</tr>
<tr>
<td><strong>MOLDBOARD</strong></td>
<td>A moldboard deflector plate is positioned at the front of the machine to level the beach before cleaning.</td>
</tr>
<tr>
<td><strong>OPERATING SPEEDS</strong></td>
<td>Between 1 kmph to 25 kmph</td>
</tr>
<tr>
<td><strong>CLEANING WIDTH</strong></td>
<td>&gt; 1,8 m (1,2 m of deep cleaning)</td>
</tr>
<tr>
<td><strong>CLEANING DEPTH</strong></td>
<td>Adjustable from 1 to 30 cm</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td>Height: 2,0 to 2,2 m, Length: 3,6 m to 5.5 m, Width: 2,3 m to 2.6m</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>Approximately 1225 kg to 1800 kg</td>
</tr>
<tr>
<td><strong>PAINT</strong></td>
<td>DuPont IMRON® Polyurethane enamel</td>
</tr>
<tr>
<td><strong>FINISHING ATTACHMENT</strong></td>
<td>To smooth the sand and eliminate tire marks for a minimum 2,74 m wide path - optional.</td>
</tr>
<tr>
<td><strong>GALVANIZATION</strong></td>
<td>All frame and body parts Hot Dip Galvanized - optional.</td>
</tr>
<tr>
<td><strong>PERFORMANCE</strong></td>
<td>Cleans up to 20,000 m²/h to 22,000 m²/h</td>
</tr>
<tr>
<td><strong>TRACTOR REQUIREMENTS</strong></td>
<td>60 to 70 PTO horsepower 4-wheel drive agricultural type tractor with 71 cm rear wheels with traction of four-wheel drive tractor with rear tires which are a minimum of 13.6R28 (13.6” wide with a 28” diameter wheel) be used. The tractor should be equipped with a single rear remote valve (you will see two ½” quick disconnect outlets) at the rear of the tractor. This valve will be used to dump the bucket. The towing tractor must have a three-point hitch to adjust the SURF RAKE up and down. It must also have a six-spline 1 3/8” diameter shaft, which operates at 540 RPM at the rear of the machine.</td>
</tr>
</tbody>
</table>
DEBRIS REMOVED
Should be able to remove/collect broken glass, plastic, syringes, cigarette butts, pop-taps, straws, cans, tar balls, stones 1 cm to 15 cm in diameter, sea grass, sea weed, fish, small pieces of wood.

Make: Barber/BeachTech/Honda/RAMS

*Cleaning machinery provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.*

**Other cleaning requirements at the beach:**

(i) Algae vegetation or natural debris should be left on the beach.
(ii) Algal vegetation is generally accepted as referring to seaweed. Seaweed and other vegetation/natural debris are natural components of both freshwater and marine ecosystems.
(iii) These ecosystems must be considered as living and natural environments and not only as a recreational asset to be kept tidy.
(iv) Thus, the management of seaweed or other vegetation/natural detritus on the shore should be sensitive to both visitor needs and biodiversity.
(v) Natural disposal by tides and waves at the beach is accepted, as long as it does not present a nuisance.
(vi) Vegetation should not be allowed to accumulate to the point where it becomes a hazard.
(vii) Only if it is absolutely necessary should vegetation be removed, and then consideration should be given to disposing of it in an environmentally-friendly way, e.g. through composting or for fertilizer use.
(viii) Wherever possible, environmental specialists should be consulted regarding the management of algal vegetation on the beach.
(ix) In some areas seaweed is dried on the beach for later use as fertilizer or dune stabilizer.
(x) While this good practice should not be discouraged it is also necessary to ensure that it does not create a nuisance for beach users.

1.19 Hammocks:

The contractor has to provide comfortable “Sleeping Hanging Hammock” fixed between two coconut/palm trees as per the indicated quantities given in BOQ. The desired specifications are as follows:

i. The garden hammock should be made from 100% hand-woven, 3 ply twisted eco friendly cotton rope which is sturdy & long lasting & will offer comfort & relax.
ii. The hanging hammock must suit all weather conditions be it summer or rainy season.
iii. The Hammock should be for single person size.
iv. The weight capacity should be at least 20kgs.
These facilities once provided by the contractor will have to be maintained for its serviceability, maintainability and utilization.

1.20 Binoculars:

The contractor has to provide high-resolution binoculars to each of the Lifeguard it deploys. The general specifications of 10 X 50 type Binoculars are as follows:

- Large objective lens diameter for a brighter and wider field of view
- Multilayer-coated lenses for bright, sharp images
- Aspherical eyepiece lenses for undistorted images across entire surface of the lens
- Turn-and-slide rubber eyecups facilitate positioning of the eyes
- Rubber armoring offers shock resistance and a firm, comfortable grip
- Tripod adaptable

Preferred make NIKON/CANNON/SONY

1.21 Water Rescue Equipment for Lifeguards:

The contractor is required to provide life saving equipment in water such as Spine Boards, Head Immobilizers, Rescue Tubes, Rescue Cans, Rescue Ring Buoys, Rescue Poles, Life Hooks, Water rescue Boards, Dive Bricks, Life Vests, First Aid Kits etc for Lifeguards so that all drowning cases are managed well.

1.22 Uniform For Beach Cleaners, Security Guards & Lifeguards:

(A) Dress:

A full-bodied apron covering both the upper & lower half in dual colours as given in sketch is required to be provided to all the staffs working under BEAMS program. Each staff shall be given a minimum of 4 pairs in a year so that they can neat & wear uniform everyday. The design sketch is given in layout drawings section. The uniform must bear the name of the contracting agency, location and name of program ‘BEAMS”. The guards will be termed as ‘Be’Watch” and this must be displayed on their back. A separate sketch is attached for beach cleaners, security guards, both ladies and gents and lifeguards and supervisors. The fabric materials should be as follows:

i. Lifeguards for Non-Summer Period: “T-Shirt” –Both orange & blue fabric-Climacool Mesh Fabric (100% polyester) & Shorts- Orange portion Coolmax Spandex Blend Fabric, Blue portion-Reflective fabric/tape
ii. Lifeguards for Summer Period: **Tank Top** – White fabric - Cotton Pique (Knit), Orange - Reflective Fabric, & **Shorts** - Orange portion – Climacool Mesh Fabric- Blue Fabric – Reflective material /tape

iii. Beach Cleaners: **Polo T-Shirt & Jacket** –Blue fabric- Cotton Pique, Navy Blue – Nylon Fabric **Bottoms**- Sea Green – Coolmax Cotton Blend Fabric


**(B) Cap:**

Bright Coloured Cap (colour mentioned in the sketch) with the Name “BEAMS” along with the name of station written on its Flap. The colour of cap must match with the lowers (Pants/Shorts/Trousers) for each of the category.

**(C) Hand Gloves:**

All cleaning staff must be given durable quality rubber gloves (preferably orange) all the time while working at beach. It shall be of size 18” long. The gloves to be used by beach cleaners and therefore their colour should match with the lower (pants).

**(D) Shoes:**

Good durable quality gumboot/other type of shoe must be given to all staffs @ 2 pairs per staff per annum. They shall be knee length & comfortable wearing so that no obstacles are caused to workers while operating in beach environment. The colour should be black only. Beach footwear can also be opted in case the shoes are found unworkable.

**(E) Mask:**

Each staff engaged in solid waste collection, segregation and disposal should be given a green Coloured surgical type mask for avoiding any direct infection from the possible contamination.

**(F) Badge for Name:**

Each staff to wear a badge on the left hand side of chest on the coverall/dungaree and essentially hang their I-card over a string giving complete personal details of the employee including aadaar number.

**1.23 Biometric Attendance:**

The contractor shall ensure suitable mechanism for regular attendance of his manpower such as face recognition based bio-metric machine, attendance register etc. and maintain daily records for payment purposes. The payment will be directly linked to no. of man-hours for each category of staff.
1.24 Cleaning Materials:

For cleaning of all the facilities at beach including toilet premises/blocks following specifications are recommended for cleaning agents/detergents/ materials/tools:

A. Cleaning Agents / Detergents:

All the cleaning agents used for the project shall be made of biodegradable ingredients. It shall follow all the mandatory International & National standards of cleaning detergents/chemicals/agents. Only environmentally friendly cleaning products (which are certified with an Eco label) must be used for the cleaning of the facilities on the beach.

Some of the essential ecological requirements for various types of cleaning agents are given below:

<table>
<thead>
<tr>
<th>SN</th>
<th>Parameter</th>
<th>Standard value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Inflammability</td>
<td>Should not be inflammable</td>
</tr>
<tr>
<td>2</td>
<td>MSDS (material safety data sheet) &amp; PDS (product data sheet)</td>
<td>Should have properly written MSDS containing 16 standard points in accordance with 89/542/EEC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Should have properly written PDS with detailed information on usage procedures</td>
</tr>
<tr>
<td>3</td>
<td>Reaction with surface material where it is applied</td>
<td>Should not be aggressive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Should not leave any reaction mark on the stainless steel surfaces</td>
</tr>
<tr>
<td>4</td>
<td>Performance with water</td>
<td>Should perform well with water having hardness between 150-200PPM &amp; TDS up to 500PPM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Should not leave residual precipitate with hard water</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Should be dispersible with water in all proportion</td>
</tr>
<tr>
<td>5</td>
<td>Storage stability and shelf life</td>
<td>Minimum shelf life at least 24 months</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Viscosity and consistency of product should not deteriorate with time and with variation of temperature due to different weather &amp; climatic condition</td>
</tr>
<tr>
<td>6</td>
<td>Additive ingredients &amp; other presence of other chemicals</td>
<td>Corrosion inhibitors, Water softening agent, Disinfecting agent and Anti re-depositing agent should be used as additive in the product used.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Should be free from Alkyl Phenol, APEOs, Formaldehyde, Butoxy Ethanol &amp;Phosphates (to be confirmed from MSDS).</td>
</tr>
<tr>
<td>7</td>
<td>Biodegradability</td>
<td>Product should be 80-90% biodegradable according to EU</td>
</tr>
<tr>
<td>8</td>
<td>Foam Height</td>
<td>Should be low to medium in foaming</td>
</tr>
<tr>
<td>9</td>
<td>Other Properties</td>
<td>Must be composed of biodegradable raw material.</td>
</tr>
</tbody>
</table>
• Must be effective on low & high temperature and hard/soft water.
• Preferably a multifunctional product suitable for all type of surfaces to be used. The product must be a cleaner and disinfecting agent simultaneously.
• All acidic products must be made of organic chemistry.

Recommended brands: CHELA/ECOLAB/HENKEL

Following cleaning agents must not be used in beach facilities:

1. Surfactants those are not readily biodegradable under aerobic conditions.
2. Surfactants that are not biodegradable under anaerobic conditions and that are classified with H400/R50 (Very toxic to aquatic life), Alkylphenolethoxylates (APEOs), onylphenolethoxylates (NPEOs) and derivatives.
3. Quaternary ammonium compounds that are not readily biodegradable.
4. EDTA (ethylenediaminetetraacetate) and his salts, phosphates.
5. Phosphoric acid, hydrochloric acid, sulfuric acid.
6. Ammonium hydroxide.
7. Detergents containing more than 6% by weight of VOCs with a boiling point lower than 150°C
8. Reactive chloro-compounds (such as sodium hypochloride)
9. Formaldehyde Antimicrobial or disinfecting ingredients added for other purposes than preservation.
10. Bioaccumulable preservatives classified as H410, H411, R50/53 or R51/53. Preservatives are not regarded as bioaccumulable if BCF<100 (bioconcentration factor) or logKow<3 (log octanolwater partition coefficient)

B. Cleaning tools/aids:

(i) Super absorbent floor mop: For cleaning of floor areas of toilet blocks/changing rooms a mop with 100 to 150 ems long aluminum handle and a cloth based swivel head mop system for quick maneuvering shall be used. It shall also have flexibility and maneuverability to reach corners.

(ii) Squeeze Brush: For toilet floor scrubbing and drying, a squeeze having 140 to 150 cms long aluminum handle and polypropylene bristles for and foam rubber blade for two in one scrubbing and drying action shall be used.

(iii) Spray Bottle made of good quality non-plastic material of 500 ml with spray gun for storing and dispensing cleaning agent.

(iv) Toilet Commode Brush: For cleaning of toilet commode, pan and adjoining areas,
a suitable commode brush with polypropylene bristles shall be provided.

(v) **Pro-Bucket:** A smart looking, easy to carry, low height approx. 10-15 Litres capacity bucket made of heavy duty polypropylene for washing of mops etc. shall be used. It shall preferably have castor wheels for ergonomic handling.

(vi) **Glass Cleaning Squeeze:** Stainless steel handle of preferably 10 inches length with durable rubber blade of size 45 cms having a locking arrangement for faster and effective cleaning of glasses shall be provided.

(vii) **Micro Fibre Cloth** for Mirror/Glass Cleaning

(viii) **Sponge Duster** for other cleaning

(ix) **Hand implants and cleaning tools for solid waste collection, segregation and disposal**

(x) **Tool kit:** A lightweight good quality toolkit containing all types of tools for minor plumbing/carpentry/electrical etc related repairs should be available at site.

(C) **Consumables:**

1. **Disposable bag for waste:**

   (i) Adequate numbers of disposable garbage bag are required for collection of solid segregated waste & litter from beachgoers.

   (ii) Bag shall be made of environment friendly materials such as jute or compostable plastic conforming to ISO 17088 and of size well fitting into the stainless steel litterbins placed in beach area.

   (iii) The full garbage bags must be removed immediately and replaced with empty bags during the day without fail. No bags shall be seen/visible as overflowing.

   (iv) The garbage bag shall be printed with the name of scheme “BEAMS”, name of the contractor & the name of beach necessarily.

2. **Liquid Soap:**

   Liquid soap in dispenser shall be provided for toilet blocks. At least one dispenser of 500 ml to be provided on each wash basin and shall be replenished on daily basis by the contractor.

   The preferred brands are DETTOL/LIFEBOUY/FEM /PALMOLIVE

3. **Paper Glass for drinking water:**
The contractor is required to provide good quality durable paper glass having the name of the beach on it and BEAMS logo for offering purified drinking water to beachgoers. The capacity should be at least 250 ml and material used to be biodegradable. The used glass will have to be recycled in composting machine.

1.25 Hand dryer machine:

For every washbasin, the contractor has to provide a Stainless Steel Automatic Hand Dryer in the toilet block (2 per toilet) for drying up his/her hands after the use. Being environment protection project, this shall be to avoid paper hand towel for every use. The indicative specifications are as follows:

- Voltage: 220V (50Hz - 60Hz)
- Power: 2300W
- Dry hands of time: 10-12 S
- Material: Stainless Steel 304
- Product size: 258 mm * 232 mm * 200 mm

1.26 Environment Education Displays & Do’s &Don’t kiosks:

The contractor to ensure that beach is equipped with eye catchy / attractive display mechanism showing phrases and contents in 2 languages (Hindi /Local & English). This must be done in consultation with local authorities/ beach management committee and/ or blue flag operator in India.

1.27 Documentation necessary for payments:

The contractor is required to maintain a complete database for the cleaning, security and other allied services. Following documents are pre-requisite for monthly payments release:

i. Attendance records for each staff deployed for services.
ii. Documentary proof of statutory compliance such as ESIC, EPF.
iii. Documentary proof of Minimum wages compliance.
iv. Documentary proof of GST payable on services.

1.28 Site office:

The contractor is required to operate their offices at beach locations and therefore must install a temporary office structure preferably made of prefab materials having all office infrastructure including computers, printers, cameras, internet facility, storage facility etc. This site office should also be used as first aid station for any emergency requirements.

Note:

All above facilities must be installed/commissioned in consultation with representative of
SICOM/ MoEF&CC/Nodal Officer/Beach Management Committee/ local authorities or as per the beach specific layout to be given before the commencement of work.

Layout Drawings of the work

Layout drawing/image for following items is attached below:

1) Toilet Blocks-separate for Gents & Ladies
2) Changing Room with Shower Panels
3) Grey Water Treatment & Recycling Plant
4) On-grid Solar Power Plant
5) Solid waste management/composting plant.
6) Umbrella sit-out with thatch
7) Recliner chair image
8) Jogging Track Landscape Drawing
9) CCTV Cameras Drawings.
10) Amphibious wheel chair image
11) Fitness Equipment
12) Staff Uniforms
13) Indicative maps for the 3 beaches- Shivrajpur, Bhogye & Ghoghla
1a) Layout drawings for Male Toilet Block:
1b) Layout drawings for Female Toilet Block:
2) Layout drawings for Changing Room/Shower Panels:
Layout Drawing for Grey Water Treatment Plant
Layout Drawing of Off-grid Solar Power Plant
Layout Drawing of Solid Waste/Composting Plant
Layout drawing of Bamboo Housing Enclosure of Toilet Blocks
Layout Drawing of Changing Room
Layout Drawing of Umbrella sit-outs
(Portable Type without the bottom platform)
Image of Recliner Chair Design

Image of Seating Bench
Sketch of Jogging Track Design
Layout Sketch of CCTV cameras

Image of Amphibious Wheel Chair
Images & Types of Fitness Equipment
Sketch for Staff Uniform

(A) Beach Cleaners

POLO T-SHIRT & JACKET

- COTTON PIQUE (KNIT)
- NYLON FABRIC

BOTTOMS

- COOLMAX COTTON BLEND FABRIC
(B) Beach Security Guards (Be’Watch)

SHIRT
- 50’S POPLIN COTTON
- REFLECTIVE TAPE / FABRIC

TROUSERS
- COOLMAX COTTON BLEND FABRIC
(C) Lifeguards

T-SHIRT
- Climacool Mesh Fabric (100% Polyester)
- Climacool Mesh Fabric

SHORTS
- Coolmax Spandex Blend Fabric
- Reflective Fabric

TANK TOP
- Cotton Pique Fabric
- Reflective Tape / Fabric

SHORTS
- Climacool Mesh Fabric
- Reflective Tape

STAFF CAPS
LIFEGUARDS
BEACH CLEANERS

[Image of a green cap with labels for mesh and canvas]
BEACH SECURITY GUARDS
Indicative map for Shivrajpur Beach, Dwarka, Gujarat

Indicative map of Bhogye Beach, Sindhudurg, Maharashtra
Indicative map of Ghogha Beach, Diu
Set of precise and clear Specifications is a prerequisite for bidders to respond realistically and competitively to the requirements of the Employer without qualifying or conditioning their bids. In the context of international competitive bidding, the Specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done shall the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of bids be ensured, and the subsequent task of Bid evaluation facilitated. The Specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of Specifications from previous similar projects in the same country are useful in to prepare Specifications. The use of metric units is encouraged by the World Bank. Most Specifications are normally written specially by the Employer or Project Manager to suit the Contract Works in hand. There is no standard set of Specifications for universal application in all sectors in all countries, but there are established principles and practices, which are reflected in these documents.
There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addendums should then adapt the General Specifications to apply them to the particular Works.

Care must be taken in drafting Specifications to ensure that they are not restrictive. In the Specifications of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards of the Borrower’s country or other standards, the Specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, shall also be acceptable. To that effect, the following sample clause may be inserted in the Special Conditions or Specifications.

“Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified shall be accepted subject to the Project Manager’s prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Project Manager at least 28 days prior to the date when the Contractor desires the Project Manager’s consent. In the event the Project Manager determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.”

These Notes for Preparing Specifications are intended only as information for the Employer or the person drafting the bidding documents. They should not be included in the final documents.
Environmental, social, health and safety requirements

The Employer should use the services of a suitably qualified environmental, social, health and safety specialist/s to prepare the specifications for ESHS working with a procurement specialist/s.

The Employer should attach or refer to the Employer’s environmental, social, health and safety policies that will apply to the project. If these are not available, the Employer should use the following guidance in drafting an appropriate policy for the Works.

SUGGESTED CONTENT FOR AN ENVIRONMENTAL AND SOCIAL POLICY

The Works’ policy goal, as a minimum, should be stated to integrate environmental protection, occupational and community health and safety, gender, equality, child protection, vulnerable people (including those with disabilities), gender-based violence (GBV), HIV/AIDS awareness and prevention and wide stakeholder engagement in the planning processes, programs, and activities of the parties involved in the execution of the Works. The Employer is advised to consult with the World Bank to agree the issues to be included which may also address: climate adaptation, land acquisition and resettlement, indigenous people, etc. The policy should set the frame for monitoring, continuously improving processes and activities and for reporting on the compliance with the policy.

The policy should, as far as possible, be brief but specific and explicit, and measurable, to enable reporting of compliance with the policy in accordance with the Particular Conditions of the Contract Sub-Clause 26.2 and Appendix B to the General Conditions of Contract.

As a minimum, the policy is set out to the commitments to:

1. apply good international industry practice to protect and conserve the natural environment and to minimize unavoidable impacts;
2. provide and maintain a healthy and safe work environment and safe systems of work;
3. protect the health and safety of local communities and users, with particular concern for those who are disabled, elderly, or otherwise vulnerable;
4. ensure that terms of employment and working conditions of all workers engaged in the Works meet the requirements of the ILO Labour conventions to which the host country is a signatory;
5. be intolerant of, and enforce disciplinary measures for illegal activities. To be intolerant of, and enforce disciplinary measures for GBV, child sacrifice, child defilement, and sexual harassment;
6. incorporate a gender perspective and provide an enabling environment where women and men have equal opportunity to participate in, and benefit from, planning and development of the Works;
7. work co-operatively, including with end users of the Works, relevant authorities, contractors and local communities;
8. engage with and listen to affected persons and organisations and be responsive to their concerns, with special regard for vulnerable, disabled, and elderly people;
9. provide an environment that fosters the exchange of information, views, and ideas that is free of any fear of retaliation;
10. minimize the risk of HIV transmission and to mitigate the effects of HIV/AIDS associated with the execution of the Works;

The policy should be signed by the senior manager of the Employer. This is to signal the intent that it will be applied rigorously.

**MINIMUM CONTENT OF ESHS REQUIREMENTS**

In preparing detailed specifications for ESHS requirements, the specialists should refer to:

- project reports e.g. ESIA/ESMP
- consent/permit conditions
- required standards including World Bank Group EHS Guidelines
- national legal and/or regulatory requirements and standards (where these represent higher standards than the WBG EHS Guidelines)
- relevant international standards e.g. WHO Guidelines for Safe Use of Pesticides
- grievance redress mechanisms.

The ESHS requirements should be prepared in manner that does not conflict with the relevant General Conditions of Contract and Particular Conditions of Contract, and in particular:

**General Conditions of Contract**

- Sub-clause 3 Language and Law
- Sub-clause 7.1 Subcontracting
- Sub-clause 8.1 Other Contractors
- Sub-clause 9 Personnel and Equipment
- Sub-clause 12 Contractor’s Risks
- Sub-clause 15.1 Contractor to Construct the Works
- Sub-clause 18.1 Safety
- Sub-clause 19.1 Discoveries
- Sub-clause 31 Early Warning
PART 3 – Conditions of Contract and Contract Forms
Section VIII. General Conditions of Contract

These General Conditions of Contract (GCC), read in conjunction with the Particular Conditions of Contract (PCC) and other documents listed therein, should be a complete document expressing fairly the rights and obligations of both parties.

These General Conditions of Contract have been developed on the basis of considerable international experience in the drafting and management of contracts, bearing in mind a trend in the construction industry towards simpler, more straightforward language.

The GCC can be used for both smaller admeasurement contracts and lump sum contracts.
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General Conditions of Contract

A. General

1. Definitions

1.1 Boldface type is used to identify defined terms.

(a) The Accepted Contract Amount means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.

(b) The Activity Schedule is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump sum contract. It includes a lump sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events.

(c) The Adjudicator is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in GCC 23.

(d) Bank means the financing institution named in the PCC.

(e) Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid.

(f) Compensation Events are those defined in GCC Clause 42 hereunder.

(g) The Completion Date is the date of completion of the Works as certified by the Project Manager, in accordance with GCC Sub-Clause 53.1.

(h) The Contract is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC Sub-Clause 2.3 below.

(i) The Contractor is the party whose Bid to carry out the Works has been accepted by the Employer.

(j) The Contractor’s Bid is the completed bidding document submitted by the Contractor to the Employer.

(k) The Contract Price is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.

(l) Days are calendar days; months are calendar months.

(m) Dayworks are varied work inputs subject to payment on a time basis for the Contractor’s employees and Equipment, in addition to payments for associated Materials and Plant.

(n) A Defect is any part of the Works not completed in accordance
with the Contract.

(o) The Defects Liability Certificate is the certificate issued by Project Manager upon correction of defects by the Contractor.

(p) The Defects Liability Period is the period named in the PCC pursuant to Sub-Clause 34.1 and calculated from the Completion Date.

(q) Drawings means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Employer in accordance with the Contract, include calculations and other information provided or approved by the Project Manager for the execution of the Contract.

(r) The Employer is the party who employs the Contractor to carry out the Works, as specified in the PCC.

(s) Equipment is the Contractor’s machinery and vehicles brought temporarily to the Site to construct the Works.

(t) “In writing” or “written” means hand-written, type-written, printed or electronically made, and resulting in a permanent record;


(v) The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the PCC. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.

(w) Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works.

(x) Plant is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.

(y) The Project Manager is the person named in the PCC (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract.

(z) PCC means Particular Conditions of Contract.

(aa) The Site is the area defined as such in the PCC.

(bb) Site Investigation Reports are those that were included in the bidding documents and are factual and interpretative reports
about the surface and subsurface conditions at the Site.

(cc) Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.

(dd) The Start Date is given in the PCC. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

(ee) A Subcontractor is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.

(ff) Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

(gg) A Variation is an instruction given by the Project Manager which varies the Works.

(hh) The Works are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the PCC.

2. Interpretation

2.1 In interpreting these GCC, words indicating one gender include all genders. Words indicating the singular also include the plural and words indicating the plural also include the singular. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these GCC.

2.2 If sectional completion is specified in the PCC, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

2.3 The documents forming the Contract shall be interpreted in the following order of priority:

(a) Agreement,
(b) Letter of Acceptance,
(c) Contractor’s Bid,
(d) Particular Conditions of Contract,
(e) General Conditions of Contract, including Appendices,
(f) Specifications,
(g) Drawings,
(h) Bill of Quantities,\textsuperscript{14} and

(i) any other document \textbf{listed in the PCC} as forming part of the Contract.

3. Language and Law

3.1 The language of the Contract and the law governing the Contract are \textbf{stated in the PCC}.

3.2 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Employer’s country when

(a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country; or

(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

4. Project Manager’s Decisions

4.1 Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.

5. Delegation

5.1 Otherwise \textbf{specified in the PCC}, the Project Manager may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may revoke any delegation after notifying the Contractor.

6. Communications

6.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

7. Subcontracting

7.1 The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor’s obligations.

8. Other Contractors

8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as \textbf{referred to in the PCC}. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

\textsuperscript{14} In lump sum contracts, delete “Bill of Quantities” and replace with “Activity Schedule.”
9. Personnel and Equipment

9.1 The Contractor shall employ the key personnel and use the equipment identified in its Bid, to carry out the Works or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of key personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.

9.2 If the Project Manager asks the Contractor to remove a person who is a member of the Contractor’s staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

9.3 If the Employer, Project Manager or Contractor determines, that any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with Clause 9.2 above.

10. Employer’s and Contractor’s Risks

10.1 The Employer carries the risks which this Contract states are Employer’s risks, and the Contractor carries the risks which this Contract states are Contractor’s risks.

11. Employer’s Risks

11.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer’s risks:

(a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to

(i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or

(ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor.

(b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer’s design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

11.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer’s risk except loss or damage due to

(a) a Defect which existed on the Completion Date,

(b) an event occurring before the Completion Date, which was not itself an Employer’s risk, or
12. Contractor’s Risks

12.1 From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer’s risks are Contractor’s risks.

13. Insurance

13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated in the PCC for the following events which are due to the Contractor’s risks:

(a) loss of or damage to the Works, Plant, and Materials;
(b) loss of or damage to Equipment;
(c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
(d) personal injury or death.

13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager’s approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

13.3 If the Contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

13.4 Alterations to the terms of an insurance shall not be made without the approval of the Project Manager.

13.5 Both parties shall comply with any conditions of the insurance policies.

14. Site Data

14.1 The Contractor shall be deemed to have examined any Site Data referred to in the PCC, supplemented by any information available to the Contractor.

15. Contractor to Construct the Works

15.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.

16. The Works to Be Completed by the Intended Completion Date

16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them by the Intended Completion Date.
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| **17. Approval by the Project Manager** | 17.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.  
17.2 The Contractor shall be responsible for design of Temporary Works.  
17.3 The Project Manager’s approval shall not alter the Contractor’s responsibility for design of the Temporary Works.  
17.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.  
17.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Project Manager before this use. |
| **18. Safety** | 18.1 The Contractor shall be responsible for the safety of all activities on the Site. |
| **19. Discoveries** | 19.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager’s instructions for dealing with them. |
| **20. Possession of the Site** | 20.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the PCC, the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event. |
| **21. Access to the Site** | 21.1 The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out. |
22. Instructions, Inspections and Audits

22.1 The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.

22.2 The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and subconsultants to keep, accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.

22.3 The Contractor shall permit and shall cause its Subcontractors and subconsultants to permit, the Bank and/or persons appointed by the Bank to inspect the Site and/or the accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Contractor’s and its Subcontractors’ and subconsultants’ attention is drawn to Sub-Clause 25.1 which provides, inter alia, that acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under Sub-Clause 22.2 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank’s prevailing sanctions procedures).

23. Appointment of the Adjudicator

23.1 The Adjudicator shall be appointed jointly by the Employer and the Contractor, at the time of the Employer’s issuance of the Letter of Acceptance. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority designated in the PCC, to appoint the Adjudicator within 14 days of receipt of such request.

23.2 Should the Adjudicator resign or die, or should the Employer and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Employer and the Contractor. In case of disagreement between the Employer and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority designated in the PCC at the request of either party, within 14 days of receipt of such request.

24. Procedure for Disputes

24.1 If the Contractor believes that a decision taken by the Project Manager was either outside the authority given to the Project Manager by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within 14 days of the notification of the Project Manager’s decision.

24.2 The Adjudicator shall give a decision in writing within 28 days of receipt of a notification of a dispute.

24.3 The Adjudicator shall be paid by the hour at the rate specified in the PCC, together with reimbursable expenses of the types specified in the PCC, and the cost shall be divided equally between the Employer and the Contractor, whatever decision is reached by the Adjudicator. Either party may refer a decision of the Adjudicator to an Arbitrator within 28 days of the Adjudicator’s written decision. If neither party
refers the dispute to arbitration within the above 28 days, the Adjudicator’s decision shall be final and binding.

24.4 The arbitration shall be conducted in accordance with the arbitration procedures published by the institution named and in the place specified in the PCC.

### 25. Corrupt and Fraudulent Practices

25.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Appendix A to the GCC.

25.2 The Employer requires the Contractor to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

### B. Time Control

### 26. Program

26.1 Within the time stated in the PCC, after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump sum contract, the activities in the Program shall be consistent with those in the Activity Schedule.

26.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.

26.3 The Contractor shall submit to the Project Manager for approval an updated Program at intervals no longer than the period stated in the PCC. If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount stated in the PCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of a lump sum contract, the Contractor shall provide an updated Activity Schedule within 14 days of being instructed to by the Project Manager.

26.4 The Project Manager’s approval of the Program shall not alter the Contractor’s obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.

### 27. Extension of the Intended Completion Date

27.1 The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.
27.2 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

28. Acceleration

28.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.

28.2 If the Contractor’s priced proposals for an acceleration are accepted by the Employer, they are incorporated in the Contract Price and treated as a Variation.

29. Delays Ordered by the Project Manager

29.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.

30. Management Meetings

30.1 Either the Project Manager or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

30.2 The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

31. Early Warning

31.1 The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.

31.2 The Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Project Manager.
C. Quality Control

32. Identifying Defects

32.1 The Project Manager shall check the Contractor’s work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor’s responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.

33. Tests

33.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.

34. Correction of Defects

34.1 The Project Manager shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the PCC. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

34.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager’s notice.

35. Uncorrected Defects

35.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager’s notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.

D. Cost Control

36. Contract Price

36.1 The Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.

37. Changes in the Contract Price

37.1 If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Project Manager shall adjust the rate to allow for the change. The Project Manager shall not adjust rates from changes in quantities if

15 In lump sum contracts, replace GCC Sub-Clauses 36.1 as follows:

36.1 The Contractor shall provide updated Activity Schedules within 14 days of being instructed to by the Project Manager. The Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for materials on site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.

16 In lump sum contracts, replace entire GCC Clause 37 with new GCC Sub-Clause 37.1, as follows:

37.1 The Activity Schedule shall be amended by the Contractor to accommodate changes of Program or method of working made at the Contractor’s own discretion. Prices in the Activity Schedule shall not be altered when the Contractor makes such changes to the Activity Schedule.
thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Employer.

37.2 If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities.

38. Variations

38.1 All Variations shall be included in updated Programs\textsuperscript{17} produced by the Contractor.

38.2 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.

38.3 If the Contractor’s quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager’s own forecast of the effects of the Variation on the Contractor’s costs.

38.4 If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

38.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

38.6 If the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in Sub-Clause 39.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.\textsuperscript{18}

39. Cash Flow Forecasts

39.1 When the Program,\textsuperscript{19} is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast. The cash flow forecast shall include different currencies, as defined in the Contract, converted as necessary using the Contract exchange rates.

40. Payment Certificates

40.1 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.

\textsuperscript{17} In lump sum contracts, add “and Activity Schedules” after “Programs.”

\textsuperscript{18} In lump sum contracts, delete this paragraph.

\textsuperscript{19} In lump sum contracts, add “or Activity Schedule” after “Program.”
40.2 The Project Manager shall check the Contractor’s monthly statement and certify the amount to be paid to the Contractor.

40.3 The value of work executed shall be determined by the Project Manager.

40.4 The value of work executed shall comprise the value of the quantities of work in the Bill of Quantities that have been completed.20

40.5 The value of work executed shall include the valuation of Variations and Compensation Events.

40.6 The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

41. Payments

41.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Project Manager within 28 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the prevailing rate of interest for commercial borrowing for each of the currencies in which payments are made.

41.2 If an amount certified is increased in a later certificate or as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.

41.3 Unless otherwise stated, all payments and deductions shall be paid or charged in the proportions of currencies comprising the Contract Price.

41.4 Items of the Works for which no rate or price has been entered shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

42. Compensation Events

42.1 The following shall be Compensation Events:

(a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC Sub-Clause 20.1.

(b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.

(c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the

20 In lump sum contracts, replace this paragraph with the following: “The value of work executed shall comprise the value of completed activities in the Activity Schedule.”
Works on time.

(d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.

(e) The Project Manager unreasonably does not approve a subcontract to be let.

(f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.

(g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.

(h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.

(i) The advance payment is delayed.

(j) The effects on the Contractor of any of the Employer’s Risks.

(k) The Project Manager unreasonably delays issuing a Certificate of Completion.

42.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

42.3 As soon as information demonstrating the effect of each Compensation Event upon the Contractor’s forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor’s forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager’s own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.

42.4 The Contractor shall not be entitled to compensation to the extent that the Employer’s interests are adversely affected by the Contractor’s not having given early warning or not having cooperated with the Project Manager.

43. Tax

43.1 The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 28 days before the
submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC Clause 44.

44. Currencies

44.1 Where payments are made in currencies other than the currency of the Employer’s country specified in the PCC, the exchange rates used for calculating the amounts to be paid shall be the exchange rates stated in the Contractor’s Bid.

45. Price Adjustment

45.1 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the PCC. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type specified below applies to each Contract currency:

\[ P_c = A_c + B_c \frac{I_{mc}}{I_{oc}} \]

where:

- \( P_c \) is the adjustment factor for the portion of the Contract Price payable in a specific currency “c.”
- \( A_c \) and \( B_c \) are coefficients specified in the PCC, representing the nonadjustable and adjustable portions, respectively, of the Contract Price payable in that specific currency “c;” and
- \( I_{mc} \) is the index prevailing at the end of the month being invoiced and \( I_{oc} \) is the index prevailing 28 days before Bid opening for inputs payable; both in the specific currency “c.”

45.2 If the value of the index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment made in the next payment certificate. The index value shall be deemed to take account of all changes in cost due to fluctuations in costs.

46. Retention

46.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the PCC until Completion of the whole of the Works.

46.2 Upon the issue of a Certificate of Completion of the Works by the Project Manager, in accordance with GCC 51.1, half the total amount retained shall be repaid to the Contractor and half when the Defects Liability Period has passed and the Project Manager has certified that all Defects notified by the Project Manager to the Contractor before the end of this period have been corrected. The Contractor may substitute

21 The sum of the two coefficients \( A_c \) and \( B_c \) should be 1 (one) in the formula for each currency. Normally, both coefficients shall be the same in the formulae for all currencies, since coefficient \( A_c \), for the nonadjustable portion of the payments, is a very approximate figure (usually 0.15) to take account of fixed cost elements or other nonadjustable components. The sum of the adjustments for each currency are added to the Contract Price.
retention money with an “on demand” Bank guarantee.

47. Liquidated Damages

47.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the PCC for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the PCC. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor’s liabilities.

47.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC Sub-Clause 41.1.

48. Bonus

48.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day stated in the PCC for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.

49. Advance Payment

49.1 The Employer shall make advance payment to the Contractor of the amounts stated in the PCC by the date stated in the PCC, against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Employer in amounts and currencies equal to the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.

49.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Project Manager.

49.3 The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.

50. Securities

50.1 The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount specified in the PCC, by a bank or surety acceptable to the Employer, and denominated in the types and proportions of the
currencies in which the Contract Price is payable. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee, and until one year from the date of issue of the Completion Certificate in the case of a Performance Bond.

51. Dayworks

51.1 If applicable, the Dayworks rates in the Contractor’s Bid shall be used only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.

51.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.

51.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.

52. Cost of Repairs

52.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor’s cost if the loss or damage arises from the Contractor’s acts or omissions.

E. Finishing the Contract

53. Completion

53.1 The Contractor shall request the Project Manager to issue a Certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the whole of the Works is completed.

54. Taking Over

54.1 The Employer shall take over the Site and the Works within seven days of the Project Manager’s issuing a certificate of Completion.

55. Final Account

55.1 The Contractor shall supply the Project Manager with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor’s account if it is correct and complete. If it is not, the Project Manager shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.

56. Operating and Maintenance Manuals

56.1 If “as built” Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the PCC. If the Contractor does not supply the Drawings and/or manuals by the dates stated in the PCC pursuant to GCC Sub-Clause 56.1, or they do not receive the Project Manager’s approval, the Project Manager shall withhold the amount stated in the PCC from payments due to the Contractor.
57. Termination

57.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

57.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:

(a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager;

(b) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 28 days;

(c) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

(d) a payment certified by the Project Manager is not paid by the Employer to the Contractor within 84 days of the date of the Project Manager’s certificate;

(e) the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;

(f) the Contractor does not maintain a Security, which is required;

(g) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in the PCC; or

(h) if the Contractor, in the judgment of the Employer, has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Client may, after giving fourteen (14) days written notice to the Contractor, terminate the Contract and expel him from the Site.

57.3 When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC Sub-Clause 56.2 above, the Project Manager shall decide whether the breach is fundamental or not.

57.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

57.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

58. Payment upon Termination

58.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance
payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as specified in the PCC. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.

58.2 If the Contract is terminated for the Employer’s convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor’s personnel employed solely on the Works, and the Contractor’s costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.

59. Property
59.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor’s default.

60. Release from Performance
60.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

61. Suspension of Bank Loan or Credit
61.1 In the event that the Bank suspends the Loan or Credit to the Employer, from which part of the payments to the Contractor are being made:

(a) The Employer is obligated to notify the Contractor of such suspension within 7 days of having received the Bank’s suspension notice.

(b) If the Contractor has not received sums due it within the 28 days for payment provided for in Sub-Clause 40.1, the Contractor may immediately issue a 14-day termination notice.
Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011:

“Fraud and Corruption:

1.16 It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts. In pursuance of this policy, the Bank:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;23,

(ii) “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;24

(iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;25

(iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;26

(v) “obstructive practice” is

(aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in

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22In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

23 For the purpose of this sub-paragraph, “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

24 For the purpose of this sub-paragraph, “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

25 For the purpose of this sub-paragraph, “parties” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other’s bid prices or other conditions.

26 For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.
order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or

(bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under paragraph 1.16(e) below.

(b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

(c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;

(d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank’s sanctions procedures,\(^{27}\) including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated\(^{28}\);

(e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

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\(^{27}\) A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank’s sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application of the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

\(^{28}\) A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.
APPENDIX B

Environmental, Social, Health and Safety (ESHS)

Metrics for Progress Reports

[Note to Employer: the following metrics may be amended to reflect the Employer’s environmental, social, health and safety policies and/or the ESHS requirements of the project. The metrics that are required should be determined by the ESHS risks of the Works and not necessarily by the scale of the Works]

Metrics for regular reporting:

a. environmental incidents or non-compliances

b. with contract requirements, including contamination, pollution or damage to ground or water supplies;

health and safety incidents, accidents, injuries and all fatalities that require treatment;

interactions with regulators: identify agency, dates, subjects, outcomes (report the negative if none);

status of all permits and agreements:

work permits: number required, number received, actions taken for those not received;

status of permits and consents:

list areas/facilities with permits required (quarries, asphalt & batch plants), dates of application, dates issued (actions to follow up if not issued), dates submitted to resident engineer (or equivalent), status of area (waiting for permits, working, abandoned without reclamation, decommissioning plan being implemented, etc.);

list areas with landowner agreements required (borrow and spoil areas, camp sites), dates of agreements, dates submitted to resident engineer (or equivalent);

identify major activities undertaken in each area this month and highlights of environmental and social protection (land clearing, boundary marking, topsoil salvage, traffic management, decommissioning planning, decommissioning implementation);

for quarries: status of relocation and compensation (completed, or details of monthly activities and current status).

health and safety supervision:

i. safety officer: number days worked, number of full inspections & partial inspections, reports to construction/project management;

ii. number of workers, work hours, metric of PPE use (percentage of workers with full personal protection equipment (PPE), partial, etc.), worker violations observed (by type of violation, PPE or otherwise), warnings given, repeat warnings given, follow-up actions taken (if any);
Worker accommodations:

iii. number of expats housed in accommodations, number of locals;

iv. date of last inspection, and highlights of inspection including status of accommodations’ compliance with national and local law and good practice, including sanitation, space, etc;

v. actions taken to recommend/require improved conditions, or to improve conditions.

HIV/AIDS: provider of health services, information and/or training, location of clinic, number of non-safety disease or illness treatments and diagnoses (no names to be provided);

gender (for expats and locals separately): number of female workers, percentage of workforce, gender issues raised and dealt with (cross-reference grievances or other sections as needed);

training:

vi. number of new workers, number receiving induction training, dates of induction training;

vii. number and dates of toolbox talks, number of workers receiving Occupational Health and Safety (OHS), environmental and social training;

viii. number and dates of HIV/AIDS sensitization training, no. workers receiving training (this month and in the past); same questions for gender sensitization, flaglady/flagman training.

environmental and social supervision:

ix. environmentalist: days worked, areas inspected and numbers of inspections of each (road section, work camp, accommodations, quarries, borrow areas, spoil areas, swamps, forest crossings, etc.), highlights of activities/findings (including violations of environmental and/or social best practices, actions taken), reports to environmental and/or social specialist/construction/site management;

sociologist: days worked, number of partial and full site inspections (by area: road section, work camp, accommodations, quarries, borrow areas, spoil areas, clinic, HIV/AIDS center, community centers, etc.), highlights of activities (including violations of environmental and/or social requirements observed, actions taken), reports to environmental and/or social specialist/construction/site management; and

community liaison person(s): days worked (hours community center open), number of people met, highlights of activities (issues raised, etc.), reports to environmental and/or social specialist/construction/site management.

Grievances: list this month’s and unresolved past grievances by date received, complainant, how received, to whom referred to for action, resolution and date (if completed), data resolution reported to complainant, any required follow-up (Cross-reference other sections as needed):

x. Worker grievances;

xi. Community grievances

Traffic and vehicles/equipment:

xii. traffic accidents involving project vehicles & equipment: provide date, location, damage, cause, follow-up;
accidents involving non-project vehicles or property (also reported under immediate metrics): provide date, location, damage, cause, follow-up;

overall condition of vehicles/equipment (subjective judgment by environmentalist); non-routine repairs and maintenance needed to improve safety and/or environmental performance (to control smoke, etc.).

Environmental mitigations and issues (what has been done):

xiii. dust: number of working bowsers, number of waterings/day, number of complaints, warnings given by environmentalist, actions taken to resolve; highlights of quarry dust control (covers, sprays, operational status); % of rock/muram/spoil lorries with covers, actions taken for uncovered vehicles;

erosion control: controls implemented by location, status of water crossings, environmentalist inspections and results, actions taken to resolve issues, emergency repairs needed to control erosion/sedimentation;

quarries, borrow areas, spoil areas, asphalt plants, batch plants: identify major activities undertaken this month at each, and highlights of environmental and social protection: land clearing, boundary marking, topsoil salvage, traffic management, decommissioning planning, decommissioning implementation;

blasting: number of blasts (and locations), status of implementation of blasting plan (including notices, evacuations, etc.), incidents of off-site damage or complaints (cross-reference other sections as needed);

spill cleanups, if any: material spilled, location, amount, actions taken, material disposal (report all spills that result in water or soil contamination);

waste management: types and quantities generated and managed, including amount taken offsite (and by whom) or reused/recycled/disposed on-site;

details of tree plantings and other mitigations required undertaken this month;

details of water and swamp protection mitigations required undertaken this month.

compliance:

xiv. compliance status for conditions of all relevant consents/permits, for the Work, including quarries, etc.: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance;

compliance status of ESMP/ESIP requirements: statement of compliance or listing of issues and actions taken (or to be taken) to reach compliance

other unresolved issues from previous months related to environmental and social: continued violations, continued failure of equipment, continued lack of vehicle covers, spills not dealt with, continued compensation or blasting issues, etc. Cross-reference other sections as need
Section IX. Special Conditions of Contract

Except where otherwise specified, all SCC should be filled in by the Employer prior to issuance of the Bidding Documents. Schedules and reports to be provided by the Employer should be annexed.

A. General

<table>
<thead>
<tr>
<th>GCC 1.1 (d)</th>
<th>The financing institution is:</th>
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<tbody>
<tr>
<td></td>
<td>International Development Association</td>
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<tr>
<th>GCC 1.1 (s)</th>
<th>The Employer is Project Director, SICOM</th>
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<tr>
<th>GCC 1.1 (v)</th>
<th>The Intended Completion Date for setting up infrastructure &amp; providing services as specified is 24 months with the following milestones:</th>
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<tbody>
<tr>
<td></td>
<td>Sectional Completions are:</td>
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<tr>
<td></td>
<td>Target Date</td>
</tr>
<tr>
<td><strong>Milestone-1</strong></td>
<td>Removal of Solid Waste &amp; Cleaning of Beach</td>
</tr>
<tr>
<td></td>
<td>02 (Two Months)</td>
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<tr>
<td><strong>Milestone-2</strong></td>
<td>Installing of Toilet Blocks, Changing Rooms, Dust Bins with water treatment plant for recycling of water</td>
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<td></td>
<td>04 (Four) Months</td>
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<tr>
<td><strong>Milestone-3</strong></td>
<td>Achieving Cleanliness standards as per BLMS</td>
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<td></td>
<td>04 (Four) Months</td>
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<tr>
<td><strong>Milestone-4</strong></td>
<td>Commissioning and operationalization of Toilet Blocks, Changing Rooms</td>
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<td></td>
<td>04 (Four) Months</td>
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<tr>
<td><strong>Milestone-5</strong></td>
<td>Installing Commissioning and Operation of composting plant for recycling of solid waste</td>
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<tr>
<td></td>
<td>04 (Four) Months</td>
</tr>
<tr>
<td><strong>Milestone-6</strong></td>
<td>Completion of all the remaining works in the contract including provision security gadgets, “Off-grid” solar power, jogging track, fitness equipment, hammocks and other gadgets, equipment as given the scope and BOQ</td>
</tr>
<tr>
<td></td>
<td>04 (Four) Months</td>
</tr>
<tr>
<td><strong>Milestone-7</strong></td>
<td>Provision of Pollution Abatement Services</td>
</tr>
<tr>
<td></td>
<td>Continuous for 24 months</td>
</tr>
</tbody>
</table>
| GCC 1.1 (y) | The Project Manager is ……  
| [insert name, address, and name of authorized representative] |
| GCC 1.1 (aa) | The Site is located at  
| 1) Shivrajpur, Dwaraka, Gujarat  
| 2) Bhogve, Sindhudurg, Maharashtra  
| 3) Ghoghla, Diu, Daman & Diu  
| Maps of each beach is attached. |
| GCC 1.1 (dd) | The Date of commencement of work shall be within 15 days from the date of handing over the possession of site. |
| GCC 1.1 (hh) | The Works consist of ‘INFRASTRUCTURE FACILITIES, POLLUTION ABATEMENT & SAFETY/SURVEILLANCE SERVICES FOR PILOT BEACHES IN India |
| GCC 2.2 | DELETED. |
| GCC 2.3(i) | The following documents also form part of the Contract: [list the following and any other relevant documents]  
| (i) the ESHS Management Strategies and Implementation Plans; and Code of Conduct (ESHS). |
| GCC 3.1 | The language of the contract is English  
| The law that applies to the Contract is the law of Union of India |
| GCC 5.1 | The Project Manager should not delegate any of his duties and responsibilities. |
| GCC 8.1 | Schedule of other contractors: Not applicable |
| GCC 9.1 | Key Personnel  
| [insert Schedule of Key Personnel and equipment as indicated in accepted bid & construction methodology]. |
| GCC 9.2 | Code of Conduct (ESHS)  
| The following is inserted at the end of GCC 9.2:  
| “The reasons to remove a person include behavior which breaches the Code of Conduct (ESHS) (e.g. spreading communicable diseases, sexual harassment, gender based |
violence, illicit activity or crime).”

<table>
<thead>
<tr>
<th>GCC 13.1</th>
<th>The minimum insurance amounts and deductibles shall be:</th>
</tr>
</thead>
<tbody>
<tr>
<td>o.</td>
<td>Minimum cover for Insurance</td>
</tr>
<tr>
<td>Works &amp; Plant &amp; Materials</td>
<td>Contract Value</td>
</tr>
<tr>
<td>Loss or damage to equipment</td>
<td>Total book value of the equipment brought to the site by the contractor</td>
</tr>
<tr>
<td>Other property</td>
<td>Rs. 10,00,000/=</td>
</tr>
<tr>
<td>Personal Injury or death insurance: a) for other people:</td>
<td>As per Workmen’s Compensation Act 1923 and other Acts in force</td>
</tr>
<tr>
<td>b) for Contractor’s Employees</td>
<td>In accordance with the statutory requirements applicable to India, Workmen Compensation Act.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GCC 16.1 (add new 16.2)</th>
<th>ESHS Management Strategies and Implementation Plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>The following is inserted as a new sub-clause 16.2:</td>
<td></td>
</tr>
</tbody>
</table>

“ 16.2 The Contractor shall not commence any Works, including mobilization and/or pre-construction activities (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits), unless the Project Manager is satisfied that appropriate measures are in place to address environmental, social, health and safety risks and impacts. At a minimum, the Contractor shall apply the Management Strategies and Implementation Plans and Code of Conduct, submitted as part of the Bid and agreed as part of the Contract. The Contractor shall submit, on a continuing basis, for the Project Manager’s prior approval, such supplementary Management Strategies and Implementation Plans as are necessary to manage the ESHS risks and impacts of ongoing works. These Management Strategies and Implementation Plans collectively comprise the Contractor’s Environmental and Social Management Plan (C-ESMP). The C-ESMP shall be approved prior to the commencement of construction activities (e.g. excavation, earth works, bridge and structure works, stream and road diversions, quarrying or extraction of materials, concrete batching and asphalt manufacture). The approved C-ESMP shall be reviewed, periodically (but not less than every six (6) months), and updated in a timely manner, as required, by the Contractor to ensure that it contains measures appropriate to the Works activities to be undertaken. The updated C-ESMP shall be subject to prior approval by the Project Manager.”

<table>
<thead>
<tr>
<th>GCC 23.1 &amp; GCC 23.2</th>
<th>Appointing Authority for the Adjudicator: [insert name of Authority].</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCC 24.3</td>
<td>Hourly rate and types of reimbursable expenses to be paid to the Adjudicator: Rs.3000.00 per</td>
</tr>
</tbody>
</table>
sitting plus reimbursable expenses, (i.e.) Traveling, boarding & lodging expenses

| GCC 24.4 | The procedure for arbitration will be as follows:
|          | (a) In case of Dispute or difference arising between the Employer and a domestic contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 Arbitrators one each to be appointed by the Employer and the Contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding Arbitrator. In case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the Institution of Engineers (India). |

| B. Time Control |
| GCC 26.1 | The Contractor shall submit for approval a Program for the Works within [number] days from the date of the Letter of Acceptance. |
| GCC 26.2 | **ESHS Reporting**
|          | Inserted at the end of GCC 26.2 |
|          | “In addition to the progress report the Contractor shall also provide a report on the Environmental, Social, Health and Safety (ESHS) metrics set out in Appendix B. In addition to Appendix B reports, the Contractor shall also provide immediate notification to the Project Manager of incidents in the following categories. Full details of such incidents shall be provided to the Project Manager within the timeframe agreed with the Project Manager. |
|          | confirmed or likely violation of any law or international agreement; |
|          | any fatality or serious (lost time) injury; |
|          | significant adverse effects or damage to private property (e.g. vehicle accident, damage from fly rock, working beyond the boundary) |
|          | major pollution of drinking water aquifer or damage or destruction of rare or endangered habitat (including protected areas) or species; or |
|          | any allegation of sexual harassment or sexual misbehavior, child abuse, defilement, or other violations involving children. |
| GCC 26.3 | The period between Program updates is 30 days. |
|          | The amount to be withheld for late submission of an updated Program is Rs. 1,00,000 |

| C. Quality Control |
| GCC 34.1 | The Defects Liability Period is: 365 days. |
### D. Cost Control

**GCC 41.1 Payment terms:**

The contractor is required to submit two bills separately in triplicate copies

(i) The bill for setting up infrastructure facilities as & when installed, commissioned and operationalized after duly verified by Nodal officer & measurement taken.

(ii) The bills for service operations will be required to be submitted every month by 5th along with pre-requisite such as proof of payment of wages, ESIC & EPF contributions (ECR) along with attendance register duly verified by Nodal officer.

(iii) GST as applicable shall be reimbursed upon proof of payment submitted.

**Advance for mobilizing “Infrastructure Facilities”**:-

1) A mobilization advance for infrastructure facilities of maximum 10% is available against Bank Guarantee of equivalent amount.

2) Another 50% payment for infrastructure design, fabrication and supply at nominated beaches can be given against equivalent value of bank guarantee.

3) Balance 40% will be released only after complete installation, commissioning and operationalization of these facilities and after due verification by Nodal officer.

**GCC 44.1** The currency of the Employer’s country is Rupees

**GCC 45.1 Price Adjustment: Fixed**

*The bidders are advised to keep increase in consumer price index / wholesale price index in mind for 2 years period and quote their rates accordingly.*

**GCC 46.1 The proportion of payments retained is:**

The proportion of payments retained (retention money) shall be 6% from each bills subject to a maximum of 5% of final contract price

**GCC 47.1 The liquidated damages for the whole of the works are (0.05%) per day and that for the milestone are as under :**

- For milestone 1......... Rs5,000.00 per day
- For milestone 2......... Rs7,500.00 per day
- For milestone 3......... Rs5,000.00 per day
- For milestone 4......... Rs5,000.00 per day
- For milestone 5......... Rs5,000.00 per day

The maximum amount of liquidated damages for the whole of the works is ten percent (10%) of final contract price.

**GCC 49.1 The amounts of the advance payment are:**

<table>
<thead>
<tr>
<th>Nature of Advance</th>
<th>Amount (Rs.)</th>
<th>Conditions to be fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Mobilization

<table>
<thead>
<tr>
<th>1</th>
<th>Mobilization</th>
<th>10% of the contract value</th>
<th>On submission of unconditional bank guarantee (to be drawn before end of 20% of contract period)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>50% payment</td>
<td>On submission of unconditional bank guarantee for for design, fabrication and supply of infrastructure facilities at nominated Beaches.</td>
</tr>
</tbody>
</table>

### Equipment

<table>
<thead>
<tr>
<th>2</th>
<th>Equipment</th>
<th>90% for new and 50% of depreciated value for old equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total amount will be subject to a maximum of 5% of the contract value</td>
</tr>
<tr>
<td></td>
<td></td>
<td>After equipment is brought to site as per agreed construction program (provided the Engineer is satisfied that the equipment is required for performance of the contract) and on submission of unconditional Bank Guarantee for amount of advance.</td>
</tr>
</tbody>
</table>

### Secured advance for no-perishable materials brought to site

<table>
<thead>
<tr>
<th>3</th>
<th>Secured advance for no-perishable materials brought to site</th>
<th>75% of Invoice value or Market value - lower of the two.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>a) The materials are in-accordance with the specification for Works;</td>
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<tr>
<td></td>
<td></td>
<td>b) Such materials have been delivered to site, and are properly stored and protected against damage or deterioration to the satisfaction of the Engineer. The contractor shall store the bulk material in measurable stacks.;</td>
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<tr>
<td></td>
<td></td>
<td>c) The Contractor’s records of the requirements, orders, receipt and use of materials are kept in a form approved by the Engineer and such records shall be available for inspection by the Engineer;</td>
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<tr>
<td></td>
<td></td>
<td>d) The contractor has submitted with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of the materials and providing evidence of ownership and payment thereof;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>e) Ownership of such materials shall be deemed to vest in the Employer for which the Contractor has submitted an Indemnity Bond in an acceptable format; and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>f) The quantity of materials are not excessive and shall be used within a reasonable time as determined by the Engineer.</td>
</tr>
</tbody>
</table>

(The advance payment will be paid to the Contractor no later than 15 days after fulfillment of the above conditions).
### GCC 50.1

An Environmental, Social, Safety and Health (ESHS) Performance Security ["shall" or "shall not", choose either option consistent with the BDS] be provided to the Employer.

[If an ESHS Security is required, replace GCC 50.1 with the following otherwise delete.]

“GCC 50.1 is replaced with the following

The Performance Security and an Environmental, Social, Safety and Health (ESHS) Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount specified in the PCC (for GCC 50.1).

The Performance Security shall be issued by a bank or surety acceptable to the Employer, and denominated in the types and proportions of the currencies in which the Contract Price is payable. The ESHS Performance Security shall be issued by a bank acceptable to the Employer and denominated in the types and proportions of the currencies in which the Contract Price is payable. The Performance Security and, if applicable, the ESHS Performance Security, shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee, and until one year from the date of issue of the Completion Certificate in the case of a Performance Bond.”

### GCC 50.1

Performance Security for 5 per cent of contract price plus Rs NA. ... as additional security for unbalanced bids [in terms of ITB Clause 29.5].

### E. Finishing the Contract

**GCC 56.1**

The date by which operating and maintenance manuals are required is within 28 days of issue of certificate of completion of whole or section of the work, as the case may be.

* The date by which “as-built” drawings (in scale 1:100) in 2 sets are required is within 28 days of issue of certificate of completion of whole or section of the work, as the case may be.

**GCC 56.2**

The amount to be withheld for failing to produce “as-built” drawings and/or operating and maintenance manuals *by the date required in G.C.C. 56.1 is Rs. 500,000/-

**GCC 57.2 (g)**

The maximum number of days is: 200 days

**GCC 58.1**

The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is 20%
Appendices

Appendix A

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN INFRASTRUCTURE & POLLUTION ABATEMENT SERVICES AND OTHER CONSTRUCTION WORK (The law as current on the date of bid opening will apply)

a) **Workmen Compensation Act 1923**: The Act provides for compensation in case of injury by accident arising out of and during the course of employment.

b) **Payment of Gratuity Act 1972**: Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years service or more or on death the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.

c) **Employees P.F. and Miscellaneous Provision Act 1952 (since amended)**: The Act Provides for monthly contributions by the employer plus workers @ 10% or 8.33%. The benefits payable under the Act are:
   a. Pension or family pension on retirement or death, as the case may be.
   b. Deposit linked insurance on the death in harness of the worker.
   c. payment of P.F. accumulation on retirement/death etc.

d) **Maternity Benefit Act 1951**: The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.

e) **Contract Labour (Regulation & Abolition) Act 1970**: The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The Principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ 20 or more contract labour.
f) **Minimum Wages Act 1948**: The Employer is supposed to pay not less than the Minimum Wages (Central) fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of Buildings, Roads, Runways are scheduled employments.

g) **Payment of Wages Act 1936**: It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.

h) **Equal Remuneration Act 1979**: The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against Female employees in the matters of transfers, training and promotions etc.

i) **Payment of Bonus Act 1965**: The Act is applicable to all establishments employing 20 or more employees. The Act provides for payments of annual bonus subject to a minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs.3500/-per month or less. The bonus to be paid to employees getting Rs.2500/-per month or above upto Rs.3500/- per month shall be worked out by taking wages as Rs.2500/-per month only. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.

j) **Industrial Disputes Act 1947**: The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

k) **Industrial Employment (Standing Orders) Act 1946**: It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the States and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.

l) **Trade Unions Act 1926**: The Act lays down the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
m) **Child Labour (Prohibition & Regulation) Act 1986**: The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes. Employment of Child Labour is prohibited in Building and Construction Industry.

n) **Inter-State Migrant workmen’s (Regulation of Employment & Conditions of Service) Act 1979**: The Act is applicable to an establishment which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, travelling expenses from home upto the establishment and back, etc.

o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996**: All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-Aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.

p) **Factories Act 1948**: The Act lays down the procedure for approval at plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in manufacturing process.
Other Important Special Conditions of Contract

1.0 Inspection & Familiarization of Site Conditions:

The contractor is required to inspect and get itself familiarize with the site conditions, type of beach, other operating conditions and ascertain the area in which it has to operate.

2.0 Contractor’s Staff:

The contractor must provide at all times efficient staff of trustworthy, skillful and experienced assistants capable of carrying out the work in accordance with the drawings and specifications and to correct levels in accordance with the provisions made in the relevant clause of the this Bid document. Contractor to ensure that it hires local Laborers as far as possible for the employment opportunities for local communities.

3.0 Measurement of Work:

The CONTRACTOR or his authorized site engineer shall be available at site at all reasonable times to take joint measurement of work done for the purpose of payment and shall also provide without any extra charges, the necessary measuring instruments and men. Apart from other infrastructure facilities to be developed at the pilot beaches, daily collection, segregation and recycling of solid waste, cleaning of beach area is of extreme importance and therefore a separate methodology will be followed for such measurement of work, which will be documented on daily basis. The degree of cleanliness on beaches will be measured with the help of “Beach Litter Measuring System (BLMS) that is as follows:

(a) BULKY LITTER COUNT:
   a) Define an area of 100 Sq. Mtrs that looks dirtiest
   b) Count the units of bulky litter ( > 10 cm size)
   c) Take a picture of that area
   d) Then determine the cleanliness level with the help of beach litter indicator

(b) FINE LITTER COUNT:
   a) Define an area of 1 Sq. Mtrs that looks dirtiest within 100 sq. mtrs. Area
   b) Count the units of fine litter ( < 10 cm size).
   c) Take a picture of that area
   d) Then determine the cleanliness level with the help of beach litter indicator

<table>
<thead>
<tr>
<th>Number of Litter Units/Area</th>
<th>Rating of Cleanliness Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>A+ (Very Clean)</td>
</tr>
<tr>
<td>1 to 3</td>
<td>A (Clean)</td>
</tr>
<tr>
<td>4 to 10</td>
<td>B (Moderately Clean)</td>
</tr>
<tr>
<td>11 to 25</td>
<td>C (Dirty)</td>
</tr>
<tr>
<td>&gt;25</td>
<td>D (Very Dirty)</td>
</tr>
</tbody>
</table>
4.0 **Supervision of Work:**

The representative of SICOM, MoEFCC, will monitor the overall project execution and supervision including compliance with tender specifications only. The execution of work both for the development of infrastructure facilities and provision of pollution abatement service operations will be supervised by both MoEFCC and the local authorities (State Govt./UT) by way of its nominated the Nodal officer. The contractor is required to work in consultation with them for measurement and supervision of work. Nodal officer will also verify the contractor’s bill before passing for payment. In addition to this for any dispute or conflict, the contractor may refer the matter to Beach Management Committee (BMC).

5.0 **Security of Infrastructure:**

The contractor is required to provide round the clock security guards in the nominated beaches so as to protect the installed infrastructure from vandalism, pilferages and theft. Contractor is also required to work closely with Beach Management Committee (BMC) and the Nodal Officer for this.

The contractor is also required to ensure that all infrastructure facilities must be properly secured on ground so as to avoid any damage due to high wind speeds and occasional storms in the coastal regions. The installation work must be carried out in consultation with local authorities in this regard. The sit-out umbrellas/thatch must be placed on intertidal areas, if required, during the day time and should be removed in the night. This can be a portable installation.

6.0 **Provision of Container for Toilet Blocks & Changing Rooms**

The contractor is required to make use of Containers provided by Ministry of Environment Forest & Climate Change free of cost (EX-DELHI) and therefore the cost of these containers will be treated as NIL while quoting their rates. For this the contractor has to work closely with MoEFCC and the toilet fabricator and ensure that the fabricator in its overall cost does not bill cost of containers to them.

7.0 **Nomination of SICOM Representative (Project Manager)**

SICOM/MoEF&CC shall nominate Project Manager/Representative for the supervision, monitoring and execution of contract from time to time. The Contractor is required to strictly follow instructions received from him.

8.0 **Other Mandatory Requirements of BEAMS:**

The contractor is required to adhere to following criteria strictly in order to maintain these beaches in line with the international best practices of beach. All these criteria are imperative and therefore must be complied by the contractor in consultation with Nodal officer / Beach Management Committee/ Local Authorities.
Wherever these criteria are difficult to follow, local authorities/BMCs must be suitably informed and consulted. All such events that are beyond the purview of Contractor’s administrative control, local authorities /BMCs must be intimated for necessary action and regulations. The contractor has to keep the local authorities informed on the compliance and difficulty it has to face in order to do so, if any.

(a) The contractor to ensure that access to the beach by public is duly supervised so that no plastic material, pets etc. is carried into the beach area. The beach must be designated as “No Plastic Zone” appropriately for public to know about it and strictly adhere to such instructions.

(b) The contractor to ensure that unauthorized camping, driving and dumping must be prohibited on the beach. There must be information about these restrictions displayed at the beach (as part of the code of conduct).

(c) Vehicles (except for those used for the purpose of cleaning and safety, e.g. for surf raking, moving lifeguard equipment, or emergency vehicles) should not be allowed on beaches.

(d) If for some emergency situation vehicles are allowed they should be prohibited from entering the high water zone at any time.

(e) The majority of the beach should be designated entirely vehicle-free.

(f) The use of the beach or its nearby areas as dumps for litter and other waste is not acceptable.

(g) Parking for emergency vehicles must be provided in close proximity to the beach.

(h) Access to the beach by dogs and other domestic animals must be strictly prohibited. It is recommended that a Dog-Free Zone be created to prevent dogs and other animals from entering the main beach and swimming area - this excludes guides dogs for the visually impaired.

(i) Measures should also be put in place to prevent access to the beach by stray animals.

(j) Information be displayed informing the public what to do should stray animals be seen on the beach.

(k) All buildings and beach equipment/facilities must be properly maintained. Equipment must be regularly maintained and checked in order to ensure that it is safe to use.

(l) Consideration should be given to: the cleanliness of equipment, its condition, the environmental effects of paint and other materials used for maintaining the
equipment/buildings and any potential risk associated with its deterioration and malfunction.

(m) Only environmentally friendly products should be used.

(n) The beach operator must ensure that safety measures comply with the national legislation regarding beach safety.

(o) Moreover, it is strongly recommended that the beach operators undertake a safety risk assessment for each designated bathing area. ILS International Lifesaving Standards must be followed for risk assessment and beach should be certified for ISO 31000.

(p) If required, the number of lifeguards must increase according to peak usage/footfalls.

(q) Lifeguards must have appropriate national or international qualifications.

(r) Certificates must be checked prior to employment and must be made available to the Local/ National authorities.

(s) Lifeguards should only be employed for lifeguarding and not in combination with duties such as water sports, rentals and services, cleaning or other duties.

(t) Lifeguards must be easily recognizable. It is therefore recommended that lifeguards wear the internationally recognized red/yellow/orange uniform.

(u) Lifeguards must be provided with appropriate lifesaving equipment.

(v) Bathing areas patrolled by lifeguards should be clearly marked out.

(w) The bathing area should be defined on the map, on the information board and/or physically on the beach with markers or flags.

(x) The International Lifesaving Federation (ILS) recommends that safety flags and signs should be placed in accordance with ISO 20712.

(y) The public rescue equipment must be regularly inspected and must fulfill national/ international guidelines.

(z) Public rescue equipment should be clearly positioned, visible and located at regular intervals allowing it to be reached quickly from any point on the beach.

(aa) Public rescue equipment must be accompanied by instructions for use and what to do in the event of a rescue. It is recommended that an emergency marker identify the location of equipment.
(bb) An information board explaining beach safety flag system in use must be provided.

(cc) The lifesaving equipment must include access to an emergency phone, unless the risk assessment states otherwise.

(dd) The equipment should be regularly inspected and records maintained thereof and must fulfill national/international guidelines.

(ee) The contractor must provide safety instructions, which must be posted on the information board and other appropriate place(s) on the beach.

(ff) First aid equipment must be available on the beach.

(gg) The contractor must ensure that busy & family beaches have first-aid stations with staff in attendance. First-aid personnel must have appropriate qualifications.

(hh) First-aid stations or the location of first-aid equipment must be clearly sign-posted for easy location by beach visitors (including on the map on the Blue Flag information board). In addition, the time in which first aid is available must be clearly informed. First aid stations should have the following equipment:

(i) adequate first aid stock (such as bandages, gloves, disinfectant, plasters, etc.)
(ii) cold water and preferably hot water
(iii) first aid bed
(iv) oxygen cylinder and mask
(v) immobilizing trauma board (e.g. immobilizing blocks or spider harness)
(vi) other equipment (shark attack pack), etc.

(ii) The contractor to coordinate with local authorities for emergency plans resulting from oil spills, hazardous/toxic waste spills entering the beach from the sea, discharge of storm water, hurricanes, algal blooms that could be dangerous, etc.

(jj) The emergency plan must specify who should be contacted in the case of a pollution incident. A responsible local person must be designated for this position. It must also specify who does what in the case of an emergency, including pollution incidents.

(kk) Emergency phone numbers for the police, first aid, and relevant emergency numbers along with the contact details for emergency services, in the event of an oil or toxic chemical spill must be posted at the beach preferably on the Beach Information Board.

(ll) The contractor to ensure by way of proper liaison with local authorities/Beach Management Committee/Nodal officer that all multiple activities must have management plans to prevent accidents and conflicts. This must include zoning for swimmers, surfers,
wind surfers and motor craft. Swimmers should be protected from all sea craft (motor, sail or pedal). Wherever necessary, zoning through the use of buoys, beacon or signs should be in place. The same should be done for surfing areas. Distinctions should be made between motor craft, paddle or sail craft. The use of these various activities must be separated. Powerboats and powered craft should operate at least 100-200 meters away from the swimming area. The exact distance is to be determined by the local regulatory agency. Furthermore, patrons who operate powered craft should be provided with guidelines for the use of their craft and the location of different zones.

(mm) Different activities on the beach must also be clearly marked and zoned.

(nn) If special events are to be held on the beach then these should be located outside of the main swimming areas.

(oo) The beach itself must be managed in accordance with an environmental plan that protects sensitive species and habitats at the beach. This can be achieved through zoning or other preventative actions.

(pp) Recreational activities must be managed to prevent environmental degradation, e.g. coastal erosion or damage to vegetation as well as to prevent birds and other wildlife, e.g. breeding turtles, from being disturbed.

(qq) Besides the use of physical separation of the different users, zoning should be clearly indicated on the map on the Beach Information Board and information could also be given at access and entry points.

(rr) The car park surface must be in good order. Parking places reserved for the use of disabled persons must be available and must be clearly marked. Other access paths must also be safe, with regulations for cars and bicycles. Bicycle paths should be encouraged whenever relevant.

(ss) The security guards must wear easily identified uniforms and should be able to present their license as trained security personnel on request.

(tt) Contractor to ensure that the beach have facilities that allow access by the physically disabled granting them access to the beach, surrounding buildings, and the restroom facilities. In addition, parking areas should have reserved spaces for disabled parking.

(uu) The contractor will have to apply for ISO 20712 for practice and compliance towards safety aspects.

(vv) Contractor to secure & comply with the requirements of international standard ISO 31000 for Risk Management and implement strictly.
The contractor is required to assist local administration for complying with the water quality sampling and frequency requirements. A proper sampling methodology and frequency is adopted and calendared accordingly. All the parameters of the testing must be recorded and maintain for beach. An independent person, officially authorized and trained for the task, must collect the samples as & when advised by local administration.

The contractor is required to assist local authorities/administration in monitoring no industrial, waste-water or sewage-related discharges affect the beach area. In the event that there are discharge points in the area of the beach, these must be duly documented.

Where identified, combined sewage overflow discharges or other urban/industrial waste water discharges are within, or immediately adjacent to the beach, the contractor should inform to warn the public that there is an intermittent discharge which could, in the short term, impact the bathing water quality.

The contractor is required to work with the local authority/ beach management committee so as to ensure compliance with all environmental management criteria, including Marine Protected Areas requirements if appropriate and conduct environmental audits of the beach and its facilities.

The contractor is required to comply with all regulations affecting the location and operation of the beach. Regulations pertaining to issues relating to coastal zone planning, environmental management, waste-water legislation, environmental legislation, and others must be met for the beach to receive and maintain Blue Flag status.

The contractor is required to closely monitor marine and freshwater sensitive habitats (such as Coral reefs or sea grass beds) in the vicinity of the beach along with volunteer non-scientist snorkelers or scuba divers and as per the procedures given in blue flag manual. In the “Reef Check” manual (to be provided by local authorities) there is more information about how to conduct the substrate survey and classify the substrate. The level of coral bleaching, presence of coral disease, presence of litter and coral damage must be noted.

The contractor is required to assist local authorities in undertaking various types of environmental education activities from time to time and as identified under blue flag program.

The contractor is required to harvest rainwater and use for watering flowers and gardens wherever and whenever possible in the working beach.

The contractor is required to provide information board for environment education and information to beachgoers. Each beach must have at least one information board in place containing all the information regarding environmental activities undertaken in the beach. For long beaches it is recommended to install more than one information board
(approximately one every 500 meters). There must be at least five different activities offered in the municipality or community - preferably during the tourist season. The activities should focus on the environment, environmental issues, Blue Flag issues or sustainability issues. At least some of the activities should be carried out at the beach and have a direct focus on the beach environment. The education activities should be effective and relevant, and each year, the local authority should re-evaluate the activities that were implemented and work towards constantly improving them. The environmental education activities must be clearly disseminated to the public. Preferably, the activities should be posted on the common information board. However, dissemination could be an updatable list posted at the kiosk or clubhouse, an SMS service or other means of communication. Whatever the platform for dissemination is, it has to be stated on the information board where to find out more about the activities.

The contractor is required to provide information about bathing water quality thru display mechanism. Bathing water quality information must be displayed on the information board. It is recommended that a table or figure with easily identifiable symbols that correspond to the results be used. The authority in charge of providing the bathing water quality results must do so shortly after the analysis so that the data can be updated regularly. It is the responsibility of the local authority to ensure that the contractor /beach management committee posts the information no later than one month after the sampling date. The complete and detailed data must be made available by the local authority to anybody upon request.

The contractor is required to provide information relating to local eco-systems and environmental phenomena and it must be displayed. The aim is that beach users are well informed and educated about relevant environmental phenomena (including valuable cultural sites/communities), local ecosystems and any sensitive areas in the surrounding environment so that they are encouraged to learn about and experience the environment in a responsible way. In the case of sensitive underwater environments, specific information about these areas must be provided for divers and snorkelers.

The contractor is required to provide a map of the beach indicating different facilities. A map showing the boundaries of the beach area and the location of key facilities and services must be posted on the information board. The map should be of good quality, easy to read and properly orientated in pictograms. The map should cover following:

(i) “You are here” pointers

(ii) lifeguards or lifesaving equipment

(iii) the area patrolled (for beaches with lifeguards)

(iv) first aid equipment

(v) telephones
(vi) toilets (including toilets for disabled people)
(vii) drinking water
(viii) car and bicycle parking areas
(ix) authorized camping sites at/near the beach
(x) recycling facilities for solid waste
(xi) location of water sampling point(s) for bathing water testing
(xii) access points and access for disabled persons
(xiii) zoning (swimming, surfing, sailing, boating, etc.) where applicable
(xiv) nearby public transport
(xv) footpaths
(xvi) location of other information boards
(xvii) rivers and inflows
(xviii) local landmarks (where applicable) storm water outlets nearby natural sensitive areas, etc. direction (North) scale bar

(iii) The contractor is required to provide a code of conduct that reflects appropriate laws governing the use of the beach and surrounding areas.

(jjj) The code of conduct should address the activities of beach users and their conduct on the beach. The beach code of conduct must be displayed on the information board.

(kkk) The information could furthermore be posted at other locations, e.g. at all major entrance points, near to the issue concerned (i.e. a No Diving sign on a pier) or as information at the relevant sites. Internationally recognized symbols, e.g. pictograms should be used wherever possible

(lll) The code of conduct should include rules about the presence of domestic animals, zoning, fishing, litter management, the use of vehicles, camping, fires, etc.

(mmm) Laws governing beach usage and management should be available to the public at the office of the local authority/contractor.

(nn) The period when the lifesaving equipment and/or lifeguards, and first aid are available must be clearly marked on the information boards and at the lifeguard station.

(ooo) The contractor is required to assist local authorities in blue flag audits and corrective
Appendix B

Appointment of Adjudicator / Dispute Review Expert
Suggested Draft of Letter of Appointment of Adjudicators in works contracts
Sub:____________________________________________________(Name of the Contract)

To
Name and address of the Adjudicator / Dispute Review Expert
We hereby confirm your appointment as Adjudicator/ Dispute Review Expert for the above contract to carry out the assignment specified in this Letter of Appointment.

For administrative purpose____________________((name of the officer representing the Employer)) has been assigned to administer the assignment and to provide the Adjudicator / Dispute Review Expert with all relevant information needed to carry out the assignment on behalf of both the employer and the contractor. The services will be required during the period of contract for the work of (Name of the Contract)_____________________________________________________.
The Adjudicator / Dispute Review Expert shall visit the worksite once in 3 (three)months till the completion of the work indicated above or as specifically requested by Employer/ Contractor for the period upto the end of defects liability period with prior intimation to the Employer and the contractor. The duration of each visit shall ordinarily be for one day only. These durations are approximate and (Name of the employer and Name of the Contractor) may find it necessary to postpone or cancel the assignment and/or shorten or extend the duration. The appointment will become effective upon confirmation of letter by you. The appointment of Adjudicator/ Dispute Review Expert shall be liable for termination under a 30 (thirty) days written notice from the date of issue of the notice, if both Employer and the Contractor so desire. Also the appointment shall automatically stand terminated 14 days after the defect notice / correction period as stated in Clauses 23 and 24 of the Conditions of Contract is over.

The Adjudicator/ Dispute Review Expert will be paid a fee of Rs.______(Rupees ____________only) per each day of visit at the worksite. The actual expenses for boarding and traveling in connection with the assignment will be reimbursed to the Adjudicator/ Dispute Review Expert. The Adjudicator/ Dispute Review Expert will submit a pre-receipted bill in triplicate to the employer indicating the date of the visit, fees for the visit and a proof in support of the actual expenditure [only for items valued above Rs. 200 each] incurred by him against boarding, lodging and traveling expenses after performing the visit on each occasion. The Employer will make the admissible payment(both the Employer’s and the Contractor’s share) to the Adjudicator/ Dispute Review Expert within 30 days of receipt of the bill. The Contractor’s share on this account(half the paid amount) will be recovered by the Employer from the Contractor’s bills against the work.

In accepting this assignment, the Adjudicator/ Dispute Review Expert should understand and agree that he is responsible for any liabilities and costs arising out of risks associated with travel to and from the place of emergency repatriation, loss or damage to personal/professional effects and property. The Adjudicator/ Dispute Review Expert is advised to effect personal insurance cover in respect of such risks if he does not already have such cover in place. In this regard, the Adjudicator/
Dispute Review Expert shall maintain appropriate medical, travel, accident and third-party liability insurance. The obligation under this paragraph will survive till termination of this appointment. Procedures for resolution of disputes by the Adjudicator/Dispute Review Expert is described in the contract of _____________ (name of the contract) between the employer and the contractor vide clause no.24 of the General Conditions of Contract. Your recommendation should be given in the format attached, within 28 days of receipt of a notification of dispute.

The Adjudicator/Dispute Review Expert will carry out the assignment in accordance with the highest standard of professional and ethical competence and integrity, having due regard to the nature and purpose of the assignment, and will conduct himself in a manner consistent herewith.

After visiting the worksite, the Adjudicator/Dispute Review Expert will discuss the matter with the Employer and if necessary with the Contractor before arriving at any decision.

The Adjudicator/Dispute Review Expert will agree that all knowledge and information not within the public domain, which may be acquired while carrying out this service shall be all time and for all purpose, regarded as strictly confidential and held in confidence, and shall not be directly or indirectly disclosed to any party whatsoever, except with the permission of the employer and the contractor. The Adjudicator’s decision should be communicated in the form of a speaking order specifying the reasons.

The Adjudicator/Dispute Review Expert will agree that any manufacturing or construction firm with which he might be associated with, will not be eligible to participate in bidding for any goods or works resulting from or associated with the project of which this consulting assignment forms a part.

Read and Agreed Name of Adjudicator/Dispute Review Expert
Signature
Place:
Date:
Name of Employer
Signature of authorized representative of Employer

Name of the Contractor
Appendix C

SUMMARY OF AJUDICATOR'S RESPONSIBILITIES

The Adjudicator has the following principal responsibilities:
1. Visit the site periodically.
2. Keep abreast of job activities and developments.
3. Encourage the resolution of disputes by the parties.
4. When a dispute is referred to it, conduct a hearing (no legal presentation), complete its deliberations, and prepare a recommendations in a professional and timely manner (as per sample format)

**IN THIS AND THE NEXT FORM, USE THE TERM ADJUDICATOR, OR DISPUTE REVIEW EXPERT AS SPECIFIED IN THE REST OF THE BIDDING DOCUMENT**
Appendix D

Sample Format of Adjudicator’s Recommendation

[Project Name]
Recommendation of Adjudicator
Dispute No. XX [NAME OF DISPUTE]
Hearing Date: ____________

Dispute
Description of dispute. A one or two sentence summation of the dispute.

Contractor’s Position
A short summation of the contractor’s position as understood by the Adjudicator.

Employer’s Position
A short summation of the Employer’s position as understood by the Adjudicator.

Recommendation
The Adjudicator’s specific recommendation for settlement of the dispute. *(The recommended course is consistent with the explanation).*

Explanation
*(This section could also be called Considerations, Rationale, Findings, Discussion, and so on.)*
The Adjudicator’s description of how each recommendation was reached.

Respectfully submitted,
Date : ______________________  ___________________
Date : ______________________  ___________________
Date : ______________________  ___________________

Date : ______________________  ___________________
Section X - Contract Forms

This Section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after contract award.
Table of Forms

Letter of Acceptance ...................................................................................................................... 2400

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Advance Payment Security .......................................................................................................... 24949
Letter of Acceptance

[ on letterhead paper of the Employer]  

. . . . [date]. . . .

To: . . . . . . . . [name and address of the Contractor] . . . . . .

Subject: . . . . . . . . [Notification of Award Contract No]. . . . .

This is to notify you that your Bid dated . . . . [insert date] . . . for execution of the . . . . . . . . . [insert name of the contract and identification number, as given in the PCC]. . . . . . . for the Accepted Contract Amount of . . . . . . . . . [insert amount in numbers and words and name of currency], as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security and an Environmental, Social, Health and Safety Performance Security [Delete ES HS Performance Security if it is not required under the contract] within 28 days in accordance with the Conditions of Contract, using for that purpose the of the Performance Security Form and the ES HS Performance Security Form, [Delete reference to the ES HS Performance Security Form if it is not required under the contract] included in Section X - Contract Forms, of the bidding document.

[Choose one of the following statements:]

We accept that __________________________ [insert the name of Adjudicator proposed by the Bidder] be appointed as the Adjudicator.

[or]

We do not accept that __________________________ [insert the name of the Adjudicator proposed by the Bidder] be appointed as the Adjudicator, and by sending a copy of this Letter of Acceptance to __________________________ [insert name of the Appointing Authority], the Appointing Authority, we are hereby requesting such Authority to appoint the Adjudicator in accordance with ITB 43.1 and GCC 23.1.

Authorized Signature: .................................................................................................................................

Name and Title of Signatory: ...........................................................................................................................

Name of Agency: ...........................................................................................................................................

Attachment: Contract Agreement
Contract Agreement

THIS AGREEMENT made the . . . . . .day of . . . . . . . . . . . . , between . . . . [name of the Employer]/ . . . . . . . . . . . . . . (hereinafter “the Employer”), of the one part, and . . . . [name of the Contractor]/. . . . . . . . . . . . . . (hereinafter “the Contractor”), of the other part:

WHEREAS the Employer desires that the Works known as . . . . [name of the Contract]. . . . . should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
   (a) the Letter of Acceptance
   (b) the Letter of Bid
   (c) the addenda Nos ________(if any)
   (d) the Particular Conditions
   (e) the General Conditions of Contract, including Appendices;
   (f) the Specification
   (g) the Drawings
   (h) Bill of Quantities,29 and
   (i) any other document listed in the PCC as forming part of the Contract;

3. In consideration of the payments to be made by the Employer to the Contractor as specified in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

   IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of . . . . [name of the borrowing country]. . . . .on the day, month and year specified above.

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29 In lump sum contracts, delete “Bill of Quantities” and replace with “Activity Schedule.”
Signed by: ____________________________
for and on behalf of the Employer

Signed by: ____________________________
for and on behalf the Contractor

in the presence of: _______________________
Witness, Name, Signature, Address, Date

in the presence of: _______________________
Witness, Name, Signature, Address, Date
Performance Security (Bank Guarantee)

Option 1: (Bank Guarantee)

[Guarantor letterhead or SWIFT identifier code]

Beneficiary:  [insert name and Address of Employer]

Date:  _[Insert date of issue]

PERFORMANCE GUARANTEE No.:  [Insert guarantee reference number]

Guarantor:  [Insert name and address of place of issue, unless indicated in the letterhead]

We have been informed that _ [insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture] (hereinafter called "the Applicant") has entered into Contract No. [insert reference number of the contract] dated [insert date] with the Beneficiary, for the execution of _ [insert name of contract and brief description of Works] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [insert amount in figures] (______) [insert amount in words], 1 such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary’s complying demand supported by the Beneficiary’s statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the …. Day of ……, 2… 2, and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

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1 The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

2 Insert the date twenty-eight days after the expected completion date as described in GC Clause 53.1. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: “The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary’s written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”
Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.
By this Bond [insert name of Principal] as Principal (hereinafter called “the Contractor”) and [insert name of Surety] as Surety (hereinafter called “the Surety”), are held and firmly bound unto [insert name of Employer] as Obligee (hereinafter called “the Employer”) in the amount of [insert amount in words and figures], for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Contractor and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Contractor has entered into a written Agreement with the Employer dated the day of ______, 20_______, for [name of contract and brief description of Works] in accordance with the documents, plans, specifications, and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW, THEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Employer to be, in default under the Contract, the Employer having performed the Employer’s obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

(1) complete the Contract in accordance with its terms and conditions; or

(2) obtain a Bid or bids from qualified Bidders for submission to the Employer for completing the Contract in accordance with its terms and conditions, and upon determination by the Employer and the Surety of the lowest responsive Bidder, arrange for a Contract between such Bidder and Employer and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term “Balance of the Contract Price,” as used in this paragraph, shall mean the total amount payable by Employer to Contractor under the Contract, less the amount properly paid by Employer to Contractor; or

(3) pay the Employer the amount required by Employer to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate.
No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Employer named herein or the heirs, executors, administrators, successors, and assigns of the Employer.

In testimony whereof, the Contractor has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this __________________ day of __________________ 20 ___.

SIGNED ON __________________ on behalf of __________________________

By __________________________ in the capacity of __________________________

In the presence of __________________________

SIGNED ON __________________ on behalf of __________________________

By __________________________ in the capacity of __________________________

In the presence of __________________________
Environmental, Social, Health and Safety (ESHS) Performance Security

ESHS Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary:  [insert name and Address of Employer]

Date:  _[Insert date of issue]

ESHS PERFORMANCE GUARANTEE No.: [Insert guarantee reference number]

Guarantor:  [Insert name and address of place of issue, unless indicated in the letterhead]

We have been informed that ________________ (hereinafter called "the Applicant") has entered into Contract No. _____________ dated ____________ with the Beneficiary, for the execution of ________________ (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of ___________ ()1, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary’s complying demand supported by the Beneficiary’s statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its Environmental, Social, Health and/or Safety (ESHS) obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the …. Day of ……, 2… 2, and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

1 The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency (cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

2 Insert the date twenty-eight days after the expected completion date as described in GC Clause 53.1. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary’s written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”
Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.
Advance Payment Security

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: [Insert name and Address of Employer]

Date: [Insert date of issue]

ADVANCE PAYMENT GUARANTEE No.: [Insert guarantee reference number]

Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]

We have been informed that [insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture] (hereinafter called “the Applicant”) has entered into Contract No. [insert reference number of the contract] dated [insert date] with the Beneficiary, for the execution of [insert name of contract and brief description of Works] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum [insert amount in figures] () [insert amount in words] is to be made against an advance payment guarantee.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [insert amount in figures] () [insert amount in words] upon receipt by us of the Beneficiary’s complying demand supported by the Beneficiary’s statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

(a) has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or

(b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary’s bank stating that the advance payment referred to above has been credited to the Applicant on its account number [insert number] at [insert name and address of Applicant’s bank].

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, 1

The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Employer.
less provisional sums, has been certified for payment, or on the [insert day] day of [insert month], 2
[insert year], whichever is earlier. Consequently, any demand for payment under this guarantee must
be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC
Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

____________________
[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted
from the final product.

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2 Insert the expected expiration date of the Time for Completion. The Employer should note that in the event
of an extension of the time for completion of the Contract, the Employer would need to request an extension
of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the
expiration date established in the guarantee. In preparing this guarantee, the Employer might consider
adding the following text to the form, at the end of the penultimate paragraph: “The Guarantor agrees to a
one-time extension of this guarantee for a period not to exceed [six months]/[one year], in response to the
Beneficiary’s written request for such extension, such request to be presented to the Guarantor before the
expiry of the guarantee.”