



**Karachi Fisheries Harbour Authority  
Government of Sindh**

**REQUEST FOR PROPOSAL DOCUMENT**

**SELECTION OF CONSULTANT**

**FOR**

**ADP SCHEME**

**"REHABILITATION & RENOVATION OF**

**KARACHI FISH HARBOUR – EXTERNAL SERVICES"**

**AT**

**KARACHI FISH HARBOUR**

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**Section 1. Letter of Invitation**

## Letter of Invitation

Invitation/ Ref: No.....;

Karachi. Dated \_\_\_\_\_

Dear Mr./Ms.:

1. The Karachi Fisheries Harbour Authority (hereinafter called "Procuring Agency") now invites proposals to provide the following consulting services for the ADP scheme "Rehabilitation & Renovation of Karachi Fish Harbour – External Services". More details on the services are provided in the Terms of Reference.
2. This Request for Proposal (RFP) has been addressed to the following shortlisted/pre-qualified Consultants:
  - (i) Techno – Consult International
  - (ii) National Engineering Services Pakistan (NESPAK)

It is not permissible to transfer this invitation to any other firm.

3. A firm will be selected under **Least Cost Selection Method** and procedures described in this RFP, in accordance with the SPPR 2010.
4. The RFP includes the following documents:

Section 1 - Letter of Invitation  
Section 2 - Instructions to Consultants (including Data Sheet)  
Section 3 - Technical Proposal - Standard Forms  
Section 4 - Financial Proposal - Standard Forms  
Section 5 - General Conditions of Contract  
Section 6 - Special Conditions of Contract  
Section 7 - Terms of Reference

5. Please inform us in writing at the address; Managing Director, Karachi Fisheries Harbour Authority, Fish Harbour, West Wharf Road, Karachi, upon receipt:

(a) *that you received the Letter of Invitation; and*

Yours sincerely,

(Muhammad Ramzan Awan)  
Managing Director

## **Section 2. Instructions to Consultants**

## Instructions to Consultants

### Definitions

- (a) “Procuring Agency (PA)” means the department with which the selected Consultant signs the Contract for the Services.
- (b) “Consultant” means a professional who can study, design, organize, evaluate and manage projects or assess, evaluate and provide specialist advice or give technical assistance for making or drafting policies, institutional reforms and includes private entities, consulting firms, legal advisors, engineering firms, construction managers, management firms, procurement agents, inspection agents, auditors, international and multinational organizations, investment and merchant banks, universities, research institutions, government agencies, nongovernmental organizations, and individuals
- (c) “Contract” means an agreement enforceable by law and includes General and Special Conditions of the Contract.
- (d) “Data Sheet” means such part of the Instructions to Consultants that is used to reflect specific assignment conditions.
- (e) “Day” means calendar day including holiday.
- (f) “Government” means the Government of Sindh.
- (g) “Instructions to Consultants” (Section 2 of the RFP) means the document which provides shortlisted Consultants with all information needed to prepare their Proposals.
- (h) “LOI” (Section 1 of the RFP) means the Letter of Invitation sent by the procuring agency to the Consultant.
- (i) “Proposal” means the Technical Proposal and the Financial Proposal.
- (j) “RFP” means the Request For Proposal prepared by the procuring Agency for the selection of Consultants.
- (k) “Sub-Consultant” means any person or entity to whom the Consultant subcontracts any part of the Services.
- (l) “Terms of Reference” (TOR) means the document included in the RFP as Section 5 which explains the objectives, scope of work, activities, tasks to be performed, respective responsibilities of the procuring agency and the Consultant, and expected results and deliverables of the assignment.

**2. Introduction**

- 2.1 The Procuring agency named in the Data Sheet will select a consulting firm/organization (the Consultant) from those listed in the Letter of Invitation, in accordance with the method of selection specified in the Data Sheet.
- 2.2 The eligible Consultants (shortlisted if so) are invited to submit a Technical Proposal and a Financial Proposal, or a Technical Proposal only, as specified in the Data Sheet. The Proposal will be the basis for contract negotiations and ultimately for a signed Contract with the selected Consultant.
- 2.3 Consultants should familiarize themselves with rules / conditions and take them into account while preparing their Proposals. Consultants are encouraged to attend a pre-proposal conference if one is specified in the Data Sheet. Attending the pre-proposal conference is, however optional. Consultants may liaise with procuring agency's representative named in the Data Sheet for gaining better insight into the assignment.
- 2.4 Consultants shall bear all costs associated with the preparation and submission of their proposals and contract negotiation. The Procuring Agency reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Consultants.
- 2.5 Procuring Agency may provide facilities and inputs as specified in Data Sheet.

**3. Conflict of Interest**

- 3.1.1 Consultants are required to provide professional, objective, and impartial advice and holding the Procuring Agency interest paramount. They shall strictly avoid conflict with other assignments or their own corporate interest. Consultants have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of the Procuring Agency, or that may reasonably be perceived as having such effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.
- 3.1.2 Without limitation on the generality of the foregoing, Consultants, and any of their affiliates, shall be considered to have a conflict of interest and shall not be recruited, under any of the circumstances set forth below:
  - (i) A consultant that has been engaged by the procuring agency to provide goods, works or services other than

consulting services for a project, any of its affiliates, shall be disqualified from providing consulting services related to those goods, works or services. Conversely, a firm hired to provide consulting services for the preparation or implementation of a project, any of its affiliates, shall be disqualified from subsequently providing goods or works or services other than consulting services resulting from or directly related to the firm's consulting services for such preparation or implementation.

- (ii) A Consultant (including its Personnel and Sub-Consultants) or any of its affiliates shall not be hired for any assignment that, by its nature, may be in conflict with another assignment of the Consultant to be executed for the same or for another Procuring Agency.
- (iii) A Consultant (including its Personnel and Sub-Consultants) that has a business or family relationship with a member of the Procuring Agency's staff who is directly or indirectly involved in any part of (i) the preparation of the Terms of Reference of the assignment, (ii) the selection process for such assignment, or (iii) supervision of the Contract, may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved.

**Conflicting Relationships**

- 3.2 Government officials and civil servants may be hired as consultants only if:
- (i) They are on leave of absence without pay;
  - (ii) They are not being hired by the agency they were working for, six months prior to going on leave; and
  - (iii) Their employment would not give rise to any conflict of interest.

**4. Fraud and Corruption**

It is Government's policy that Consultants under the contract(s), observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the Procuring Agency follows the instructions contained in Sindh Public procurement Rules 2010 which defines:

“ corrupt and fraudulent practices” includes the offering, giving, receiving, or soliciting, directly or indirectly of anything of value to influence the act of another party for wrongful gain or any act or omission ,including misrepresentation, that knowingly or recklessly misleads or attempt mislead a party to obtain a financial or other benefit or to avoid an obligation;

Under Rule 35 of SPPR2010, “The PA can inter-alia blacklist Bidders found to be indulging in corrupt or fraudulent practices. Such



barring action shall be duly publicized and communicated to the SPPRA. Provided that any supplier or contractor who is to be blacklisted shall be accorded adequate opportunity of being heard”.

- 5. Integrity Pact** Pursuant to Rule 89 of SPPR 2010 Consultant undertakes to sign an Integrity pact in accordance with prescribed format attached hereto for all the procurements estimated to exceed Rs. 2.5 million. (Annex-A)
- 6. Eligible Consultants**
- 6.1 If short listing process has been undertaken through REOI, as outlined under Rule 73 and 74 of SPPR2010 for the Contract(s) for which these RFP documents are being issued, those firms - in case of Joint Ventures with the same partner(s) and Joint Venture structure - that had been pre-qualified are eligible.
- 6.2 Short listed consultants emerging from request of expression of interest are eligible.
- 7. Eligibility of Sub-Consultants** A shortlisted Consultant would not be allowed to associate with Consultants who have failed to qualify the short listing process.
- 8. Only one Proposal** Shortlisted Consultants may only submit one proposal. If a Consultant submits or participates in more than one proposal, such proposals shall be disqualified. Participation of the same Sub-Consultant, including individual experts, to more than one proposal is not allowed.
- 9. Proposal Validity**
- 9.1 The Data Sheet indicates Proposals validity that shall not be more than 90 days in case of National Competitive Bidding (NCB) and 120 days in case of International competitive Bidding (ICB). During this period, Consultants shall maintain the availability of Professional staff nominated in the Proposal. The Procuring Agency will make its best effort to complete negotiations within this period. Should the need arise; however, the Procuring Agency may request Consultants to extend the validity period of their proposals. Consultants who agree to such extension shall confirm that they maintain the availability of the Professional staff nominated in the Proposal, or in their confirmation of extension of validity of the Proposal, Consultants may submit new staff in replacement, who would be considered in the final evaluation for contract award. Consultants who do not agree have the right to refuse to extend the validity of their Proposals.
- 9.2 Consultants shall submit required bid security along with financial proposal defined in the data sheet (which shall not be

less than one percent and shall not exceed five percent of bid amount).

**10. Clarification and Amendment in RFP Documents**

- 10.1 Consultants may request for a clarification of contents of the bidding document in writing, and procuring agency shall respond to such queries in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of proposal. The procuring agency shall communicate such response to all parties who have obtained RFP document without identifying the source of inquiry. Should the PA deem it necessary to amend the RFP as a result of a clarification, it shall do so.
- 10.2 At any time before the submission of Proposals, the Procuring Agency may amend the RFP by issuing an addendum/corrigendum in writing. The addendum shall be sent to all Consultants and will be binding on them. Consultants shall acknowledge receipt of all amendments. To give Consultants reasonable time in which to take an amendment into account in their Proposals the Procuring Agency may, if the amendment is substantial, extend the deadline for the submission of Proposals.

**11. Preparation of Proposals**

- 11.1 In preparing their Proposal, Consultants are expected to examine in detail the documents comprising the RFP. Material deficiencies (deviation from scope, experience and qualification of personnel) in providing the information requested may result in rejection of a Proposal.
- 11.2 The estimate number of professional staff months or the budget required for executing the assignment should be shown in the data sheet, but not both. However, proposal shall be based on the professional staff month or budget estimated by the consultant.

**12. Language**

The Proposal as well as all related correspondence exchanged by the Consultants and the Procuring Agency shall be written in English. However it is desirable that the firm's Personnel have a working knowledge of the national and regional languages of Islamic Republic of Pakistan.

**13. Technical Proposal Format and Content**

- 13.1 While preparing the Technical Proposal, consultants must give particular attention to the following:
- (i) If a consultant considers that it does not have all the expertise for the assignment, it may obtain a full range of expertise by associating with individual consultant(s) and/or other firms or entities in a joint venture or sub-

consultancy, as appropriate. The international consultants are encouraged to seek the participation of local consultants by entering into a joint venture with, or subcontracting part of the assignment to, national consultants.

- (ii) For assignments on a staff-time basis, the estimated number of professional staff-months is given in the Data Sheet. The proposal shall, however, be based on the number of professional staff-months estimated by the firm. For fixed-budget-based assignments, the available budget is given in the Data Sheet, and the Financial Proposal shall not exceed this budget.
- (iii) It is desirable that the majority of the key professional staff proposed be permanent employees of the firm or have an extended and stable working relationship with it.
- (iv) Proposed professional staff must, at a minimum, have the experience indicated in the Data Sheet, preferably working under similar geographical condition.
- (v) Alternative professional staff shall not be proposed, and only one curriculum vitae (CV) shall submitted for each position.

13.2 The Technical Proposal shall provide the following information using the attached Standard Forms (Section 3):

- (i) A brief description of the consultant organization and an outline of recent experience on assignments (Section 3B) of a similar nature. For each assignment, the outline should indicate, *inter alia*, the profiles of the staff, duration of the assignment, contract amount, and firm's involvement.
- (ii) Any comments or suggestions on the Terms of Reference and on the data, a list of services, and facilities to be provided by the PA (Section 3C).
- (iii) The list of the proposed staff team by specialty, the tasks that would be assigned to each staff team member, and their timing (Section 3E).
- (iv) CVs recently signed by the proposed professional staff and the authorized representative submitting the proposal (Section 3F). Key information should include number of years working for the consultant and degree of responsibility held in various assignments during the last \_\_\_\_\_ (PA may give number of years as per their requirement) years.
- (v) Estimates of the total staff input (professional and support

staff; staff time) needed to carry out the assignment, supported by bar chart diagrams showing the time proposed for each professional staff team member (Sections 3E and 3G).

- (vi) A detailed description of the proposed methodology, work plan for performing the assignment, staffing, and monitoring of training, if the Data Sheet specifies training as a major component of the assignment (Section 3D).
- (vii) Any additional information requested in the Data Sheet.

13.3 The Technical Proposal shall not include any financial information.

#### **14. Financial Proposals**

14.1 The Financial Proposal shall be prepared using the attached Standard Forms (Section 4). It shall list all costs associated with the assignment, including (a) remuneration for staff (in the field and at the Consultants' office), and (b) reimbursable expenses indicated in the Data Sheet (if applicable). Alternatively Consultant may provide their own list of cost. If appropriate, these costs should be broken down by activity. All activities and items described in the Technical Proposal must be priced separately; activities and items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items.

#### **15. Taxes**

15.1 The Consultant will be subject to all admissible taxes including stamp duty and service charges at a rate prevailing on the date of contract agreement unless exempted by relevant tax authority.

#### **16. Submission, Receipt, and Opening of Proposals**

16.1 Proposal shall contain no interlineations or overwriting. Submission letters for both Technical and Financial Proposals should respectively be in the format of TECH-1 of Section 3, and FIN-1 of Section 4. All pages of the original Technical and Financial Proposals will be initialed by an authorized representative of the Consultants (Individual Consultant). The authorization shall be in the form of a written power of attorney accompanying the Proposal

16.2 All required copies of the Technical Proposal are to be made from the original. If there are discrepancies between the original and the copies of the Technical Proposal, the original governs.

16.3 The original and all copies of the Technical Proposal shall be placed in a sealed envelope clearly marked "TECHNICAL PROPOSAL" Similarly, the original Financial Proposal (if required under the selection method indicated in the Data

shall be placed in a sealed envelope clearly marked "FINANCIAL PROPOSAL" followed by name of the assignment, and with a warning "DO NOT OPEN WITH THE TECHNICAL PROPOSAL." If the Financial Proposal is not submitted in a separate sealed envelope duly marked as indicated above, this will constitute grounds for declaring the Proposal non-responsive.

16.4 The Proposals must be sent to the address indicated in the Data Sheet and received by the PA no later than the time and the date indicated in the Data Sheet, or any extension to this date. Any proposal received by the PA after the deadline for submission shall be returned unopened. In order to avoid any delay arising from the postal or PA's internal despatch workings, Consultants should ensure that proposals to be sent through couriers should reach a day before the deadline for submission. .

**17. Proposal Evaluation**

17.1 From the time the Proposals are opened to the time the Contract is awarded, the Consultants should not contact the PA on any matter related to its Technical and/or Financial Proposal. Any effort by Consultants to influence the PA in the examination, evaluation, ranking of Proposals, and recommendation for award of Contract may result in the rejection of the Consultants' Proposal.

Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.

**18. Evaluation of Technical Proposals**

18.1 The evaluation committee shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria, sub-criteria, and point system specified in the Data Sheet. Each responsive Proposal will be given a technical score (St). A Proposal shall be rejected at this stage if it fails to achieve the minimum technical score indicated in the Data Sheet.

In the case of Quality-Based Selection, Selection Based on Consultant's Qualifications, and Single-Source Selection, the highest ranked consultant or firm selected on a single-source basis is invited to negotiate its proposal and the contract on the basis of the Technical Proposal and the Financial Proposal submitted.

**Public Opening and Evaluation of Financial Proposals:  
(LCS , QCBS, and Fixed Budget Selection Methods Only)**

18.2 After the technical evaluation is completed, the PA shall notify in writing Consultants that have secured the minimum

qualifying marks, the date, time and location, allowing a reasonable time, for opening the Financial Proposals. Consultants' attendance at the opening of Financial Proposals is optional.

Financial proposals of those consultants who failed to secure minimum qualifying marks shall be returned unopened.

#### 19. Evaluation of Financial Proposals

- 19.1 Financial Proposals shall be opened publicly in the presence of the Consultants' representatives who choose to attend. The name of the Consultants and the technical scores of the Consultants shall be read aloud. The Financial Proposal of the Consultants who met the minimum qualifying mark will then be inspected to confirm that they have remained sealed and unopened. These Financial Proposals shall be then opened, and the total prices read aloud and recorded. Copy of the record shall be sent to all Consultants.
- 19.2 The Evaluation Committee will correct any computational errors. When correcting computational errors, in case of discrepancy between a partial amount and the total amount, or between word and figures the formers will prevail. In addition to the above corrections, activities and items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items.
- 19.3 In case of **Least Cost Selection LCS Method**, the bid found to be the lowest evaluated bid shall be accepted.
- 19.4 **In case of Quality and Cost Based Selection QCBS Method** the lowest evaluated Financial Proposal (Fm) will be given the maximum financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Proposal; P = the weight given to the Financial Proposal; T + P = 1) indicated in the Data Sheet:  $S = St \times T\% + Sf \times P\%$ . The firm achieving the highest combined technical and financial score will be invited for negotiations.
- 19.5 In the case of Fixed-Budget and Quality Based Selection, the Procuring Agency will select the firm that submitted the highest ranked Technical Proposal.

- 20. Negotiations**                      20.1 Negotiations will be held at the date and address indicated in the Data Sheet. The invited Consultant will, as a pre-requisite for attendance at the negotiations, confirm availability of all Professional staff. Failure in satisfying such requirements may result in the PA proceeding to negotiate with the next-ranked Consultant. Representatives conducting negotiations on behalf of the Consultant must have written authority to negotiate and conclude a Contract.
- 21. Technical negotiations**                      21.1 Technical Negotiations will include a discussion of the Technical Proposal, the proposed technical approach and methodology, work plan, organization and staffing, and any suggestions made by the Consultant to improve the Terms of Reference. The PA and the Consultants will finalize the Terms of Reference, staffing schedule, work schedule, logistics, and reporting. These documents will then be incorporated in the Contract as "Description of Services". Minutes of negotiations, which will be signed by the PA and the Consultant, will become part of Contract Agreement.
- 22. Financial negotiations**                      22.1 If applicable, it is the responsibility of the Consultant, before starting financial negotiations, to contact the local tax authorities to determine the tax amount to be paid by the Consultant under the Contract. The financial negotiations will include a clarification (if any) of the firm's tax liability, and the manner in which it will be reflected in the Contract; and will reflect the agreed technical modifications in the cost of the services. Consultants will provide the PA with the information on remuneration rates described in the Appendix attached to Section 4 (i.e. Financial Proposal - Standard Forms of this RFP.
- 23. Availability of Professional staff/experts**                      23.1 Having selected the Consultant on the basis of, among other things, an evaluation of proposed Professional staff, the PA expects to negotiate a Contract on the basis of the Professional staff named in the Proposal. Before contract negotiations, the PA will require assurances that the Professional staff will be actually available. The PA will not consider substitutions during contract negotiations unless both parties agree that undue delay in the selection process makes such substitution unavoidable or for reasons such as death or medical incapacity. If this is not the case and if it is established that Professional staff were offered in the proposal without confirming their availability, the Consultant may be disqualified. Any proposed substitute shall have equivalent or better qualifications and experience than the original candidate and be submitted by the Consultant within

the period of time specified in the letter of invitation to negotiate.

**24. Award of Contract**

- 24.1 After completing negotiations, the Procuring Agency shall award the Contract to the selected Consultant and within seven of the award of contract, Procuring Agency shall publish on the website of the Authority and on its own website, if such a website exists, the result of the bidding process, identifying the bid through procuring identifying number, if any and the following information, evaluation report, form of contract and letter of award, bill of quantity or schedule of requirement, as the case may be.
- 24.2 After publishing of award of contract consultant required to submit a performance security at the rate indicated in data sheet.
- 24.3 The Consultant is expected to commence the assignment on the date and at the location specified in the Data Sheet.

**25. Confidentiality**

Information relating to evaluation of Proposals and recommendations concerning awards shall not be disclosed to the Consultants who submitted the Proposals or to other persons not officially concerned with the process, until the publication of the award of Contract. The undue use by any Consultant of confidential information related to the process may result in the rejection of its Proposal.



DATA SHEET

|              |  |
|--------------|--|
| 1.1          | Name of the Assignment is: <i>Consultancy Services for the ADP Scheme "Rehabilitation &amp; Renovation of Karachi Fish Harbour – External Services"</i><br>The Name of the PA's official(s):<br>Address: <i>Karachi Fish Harbour, West Wharf Road, Karachi.</i><br>Telephone: <i>92-21-99214816/18</i> Facsimile:<br>E-mail: <i>info@karachifishharbour.com.pk</i> |
| 2.1          | The method of selection: <b><i>Least Cost Selection Method</i></b><br>The Edition of Guidelines is: <i>Proposal to be solicited from eligible Firms</i>  |
| 2.2          | Financial Proposal to be submitted together with Technical Proposal:<br><b><i>Yes</i></b>  |
| 2.3          | A pre-proposal conference will be held: <b><i>No</i></b>   |
| 2.5          | The PA will provide the following inputs and facilities:<br><i>Geotechnical Investigation – Offshore</i><br><i>Geotechnical Investigation – Onshore</i><br><i>Design Analysis &amp; Calculations</i><br><i>Technical Specifications</i><br><i>Drawings</i><br><i>Detail Cost Estimates</i><br><i>Bidding &amp; Contract Documents</i>                              |
| 5.1          | Consultant undertake to sign Integrity Pact for the procurement estimated to exceed Pak Rs.2.5 million.  |
| 9.1          | Proposals shall remain valid <i>90 days</i> after the submission date.   |
| 9.2          | Bid Security: <i>3% of the Bid Amount</i>  |
| 10.1         | Clarifications may be requested not later than <u><i>seven (7)</i></u> days before the submission date.<br>Address for requesting clarification is: <i>Managing Director, KFHA, Karachi Fish Harbour, West Wharf Road, Karachi.</i>  |
| 11.2         | Available budget is: <b><i>Rs.34.098 (M)</i></b>   |
| 13.1         | The format of the Technical Proposal to be submitted is: <b><i>STP</i></b>   |
| 13.1(i)      | Short listed consultant may associate with other short listed consultant: <b><i>No</i></b>   |
| 13.2         | <i>Forms Section 3 (A, B, C... ..) may be read as Forms Section TECH (1, 2, 3...)</i>  |
| 13.2<br>(vi) | Training is a specific component of this assignment.<br><i>Training is required for the Operation &amp; Maintenance of;</i>  |

|   | <ul style="list-style-type: none"> <li>• Sewerage Treatment Plants</li> <li>• RO Plant</li> <li>• CCTV System</li> <li>• Fire Fighting System</li> <li>• External Electrical Works</li> <li>• Etc.</li> </ul>   |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
|---|---|--|---------------|---|------|---------------------------------------|------|--------------|------|------------------------------|------|----------------------------------|------|--|--|---|------|--|------|---|------|--|------|---|------|
| 16.2  | Consultant must submit the original and <u>One</u> copy of the Technical Proposal, and the original of the Financial Proposal.  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| 16.4  | <p>The Proposal submission address is: <i>Office of the Managing Director, Karachi Fisheries Harbour Authority, Fish Harbour, West Wharf Road, Karachi.</i></p> <p>Proposals must be submitted no later than the following date and time:<br/> <i>Date: May 10, 2015                      Time: 4:00pm</i></p>  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| 18.1  | <p>Criteria, sub criteria, and point system for the evaluation of Simplified Technical Proposals are:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="text-align: right; width: 20%;"><u>Points</u></th> </tr> </thead> <tbody> <tr> <td>(1) Adequacy of the proposed technical approach, methodology and work plan in responding to the Terms of Reference:</td> <td style="text-align: right;">[25]</td> </tr> <tr> <td style="padding-left: 20px;">a) Technical approach and methodology</td> <td style="text-align: right;">[10]</td> </tr> <tr> <td style="padding-left: 20px;">b) Work plan</td> <td style="text-align: right;">[10]</td> </tr> <tr> <td style="padding-left: 20px;">c) Organization and staffing</td> <td style="text-align: right;">[05]</td> </tr> <tr> <td style="text-align: right; padding-right: 20px;">Total points for criterion (ii):</td> <td style="text-align: right;">[25]</td> </tr> <tr> <td>(2) Key professional staff qualifications and competence for the assignment:</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">(a) Project Manager / Team Leader<br/>(Masters in relevant field and Bachelor in Civil Engineering with overall min. 15 years experience &amp; 8 years experience managing (as PM) diversified projects)</td> <td style="text-align: right; vertical-align: top;">[15]</td> </tr> <tr> <td style="padding-left: 20px;">(b) Deputy Project Manager<br/>(Masters in relevant field and Bachelor in Civil Engineering with overall min. 15 years experience &amp; 5 years experience managing (as PM/DPM) diversified projects)</td> <td style="text-align: right; vertical-align: top;">[10]</td> </tr> <tr> <td style="padding-left: 20px;">(c) Senior Engineer – I<br/>(Masters in Transportation &amp; Bachelors in Civil Engineering with 12 years relevant experience)</td> <td style="text-align: right; vertical-align: top;">[10]</td> </tr> <tr> <td style="padding-left: 20px;">(d) Senior Engineer – II<br/>(Bachelors in Civil Engineering with 15 years experience in Water Supply &amp; Sewerage Network)</td> <td style="text-align: right; vertical-align: top;">[08]</td> </tr> <tr> <td style="padding-left: 20px;">(e) Senior Architect<br/>(Bachelor in the relevant field with 15 years experience)</td> <td style="text-align: right; vertical-align: top;">[08]</td> </tr> </tbody> </table> |  | <u>Points</u> | (1) Adequacy of the proposed technical approach, methodology and work plan in responding to the Terms of Reference: | [25] | a) Technical approach and methodology | [10] | b) Work plan | [10] | c) Organization and staffing | [05] | Total points for criterion (ii): | [25] | (2) Key professional staff qualifications and competence for the assignment: |  | (a) Project Manager / Team Leader<br>(Masters in relevant field and Bachelor in Civil Engineering with overall min. 15 years experience & 8 years experience managing (as PM) diversified projects) | [15] | (b) Deputy Project Manager<br>(Masters in relevant field and Bachelor in Civil Engineering with overall min. 15 years experience & 5 years experience managing (as PM/DPM) diversified projects) | [10] | (c) Senior Engineer – I<br>(Masters in Transportation & Bachelors in Civil Engineering with 12 years relevant experience) | [10] | (d) Senior Engineer – II<br>(Bachelors in Civil Engineering with 15 years experience in Water Supply & Sewerage Network) | [08] | (e) Senior Architect<br>(Bachelor in the relevant field with 15 years experience) | [08] |
|   | <u>Points</u>   |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| (1) Adequacy of the proposed technical approach, methodology and work plan in responding to the Terms of Reference:   | [25]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| a) Technical approach and methodology   | [10]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| b) Work plan  | [10]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| c) Organization and staffing  | [05]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| Total points for criterion (ii):  | [25]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| (2) Key professional staff qualifications and competence for the assignment:  |   |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| (a) Project Manager / Team Leader<br>(Masters in relevant field and Bachelor in Civil Engineering with overall min. 15 years experience & 8 years experience managing (as PM) diversified projects) | [15]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| (b) Deputy Project Manager<br>(Masters in relevant field and Bachelor in Civil Engineering with overall min. 15 years experience & 5 years experience managing (as PM/DPM) diversified projects)    | [10]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| (c) Senior Engineer – I<br>(Masters in Transportation & Bachelors in Civil Engineering with 12 years relevant experience)   | [10]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| (d) Senior Engineer – II<br>(Bachelors in Civil Engineering with 15 years experience in Water Supply & Sewerage Network)  | [08]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |
| (e) Senior Architect<br>(Bachelor in the relevant field with 15 years experience)   | [08]  |  |               |   |      |                                       |      |              |      |                              |      |                                  |      |  |  |   |      |  |      |   |      |  |      |   |      |

Section 2. Information to Consultants – Data Sheet

|      |  |
|------|--|
|      | <p>(f) Procurement / Contract Specialist [04]<br/> (g) Mechanical Engineer [04]<br/> (h) Electrical Engineer [04]<br/> (i) Geotechnical Engineer [04]<br/> (j) Telecommunication Engineer [04]<br/> (k) Environmental Specialist [04]<br/> (Bachelor in relevant field with min. 10 years experience)</p> <p style="text-align: right;">Total points for criterion (ii): [75]</p> <p>The number of points to be assigned to each of the above positions or disciplines shall be determined considering the following three sub-criteria and relevant percentage weights:</p> <p>(i) Qualifications [15%]<br/> (ii) Experience in relevant field [60%]<br/> (iii) Experience in relevant area (Ports / Harbours / Coastal Areas / Marine Environment) [20%]<br/> (iv) Status with the Firm [05%]<br/> (Permanent Position–100%, Part time with previous position–50% and Part time only for this assignment – 0%)</p> <p style="text-align: right;">Total weight: 100%</p> <p style="text-align: right;">Total points for the two criteria: 100</p> <p>The minimum technical score St required to pass is: <u>70</u> Points</p> |
| 19   | <p>Remuneration Type "<b>Lump Sum</b>"</p> <p>The single currency for price conversions is: <b>Pak Rupees</b></p>  |
| 20.1 | <p>Expected date and address for contract negotiations: <b>May 21, 2015</b></p> <p><i>Office of the Managing Director, Karachi Fisheries Harbour Authority, Fish Harbour West Wharf Road, Karachi.</i></p>   |
| 24.2 | <p>Successful consultant is required to submit performance security in form of pay order, demand draft or bank guarantee form any scheduled bank of Pakistan equivalent to 5% of the contract amount.</p>  |

### Section 3. Technical Proposal - Standard Forms

*[Comments in brackets] provide guidance to the shortlisted Consultants for the preparation of their Technical Proposals; they should be deleted from the Technical Proposals to be submitted.]*

Refer to Reference Paragraph 13 of the Data Sheet for format of Technical Proposal to be submitted, and paragraph 13 of Section 2 of the RFP for Standard Forms required and number of pages recommended.

|              |  |    |
|--------------|--|----|
| Form TECH-1. | Technical Proposal Submission Form .....   | 21 |
| Form TECH-2. | Consultant's Organization and Experience.....  | 22 |
|              | A - Consultant's Organization .....  | 22 |
|              | B - Consultant's Experience .....  | 23 |
| Form TECH-3. | Comments and Suggestions on the Terms of Reference and on<br>Counterpart Staff and Facilities to be Provided by the PA ..... | 24 |
|              | A - On the Terms of Reference .....  | 24 |
|              | B - On Counterpart Staff and Facilities.....   | 25 |
| Form TECH-4. | Description of Approach, Methodology and Work Plan for<br>Performing the Assignment .....                                    | 26 |
| Form TECH-5. | Team Composition and Task Assignments .....  | 27 |
| Form TECH-6. | Curriculum Vitae (CV) for Proposed Professional Staff.....   | 28 |
| Form TECH-7. | Staffing Schedule <sup>1</sup> .....   | 30 |
| Form TECH-8. | Work Schedule.....   | 31 |

FORM TECH-1. TECHNICAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: [Name and address of PA]

Dear Sirs:

We, the undersigned, offer to provide the consulting services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal sealed under a separate envelope<sup>1</sup>.

We are submitting our Proposal in association with: [Insert a list with full name and address of each associated Consultant]<sup>2</sup>

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If negotiations are held during the period of validity of the Proposal, i.e., before the date indicated in the Data Sheet, we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We undertake, if our Proposal is accepted, to initiate the consulting services related to the assignment not later than the date indicated in the Data Sheet.

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

We remain,

Yours sincerely,

Authorized Signature [In full and initials]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

1 [In case Paragraph Reference 1.2 of the Data Sheet requires to submit a Technical Proposal only, replace this sentence with: "We are hereby submitting our Proposal, which includes this Technical Proposal only."]

2 [Delete in case no association is foreseen.]

**For FTP Only**

**FORM TECH-2. CONSULTANT'S ORGANIZATION AND EXPERIENCE**

---

***A - Consultant's Organization***

*[Provide here a brief (two pages) description of the background and organization of your firm/entity and each associate for this assignment.]*

FORM TECH-3. COMMENTS AND SUGGESTIONS ON THE TERMS OF  
REFERENCE AND ON COUNTERPART STAFF AND FACILITIES TO BE  
PROVIDED BY THE PA

---

*A - On the Terms of Reference*

*[Present and justify here any modifications or improvement to the Terms of Reference you are proposing to improve performance in carrying out the assignment (such as deleting some activity you consider unnecessary, or adding another, or proposing a different phasing of the activities). Such suggestions should be concise and to the point, and incorporated in your Proposal.]*

***B - On Counterpart Staff and Facilities***

*[Comment here on counterpart staff and facilities to be provided by the PA according to Paragraph Reference 2.5 of the Data Sheet including: administrative support, office space, local transportation, equipment, data, etc.]*



## FORM TECH-4. DESCRIPTION OF APPROACH, METHODOLOGY AND WORK PLAN FOR PERFORMING THE ASSIGNMENT

---

*[Technical approach, methodology and work plan are key components of the Technical Proposal. You are suggested to present your Technical Proposal (50 pages, inclusive of charts and diagrams) divided into the following three chapters:*

- a) Technical Approach and Methodology,*
- b) Work Plan, and*
- c) Organization and Staffing.*

*a) Technical Approach and Methodology. In this chapter you should explain your understanding of the objectives of the assignment, approach to the services, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance, and explain the technical approach you would adopt to address them. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.*

*b) Work Plan. In this chapter you should propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the PA), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents, including reports, drawings, and tables to be delivered as final output, should be included here. The work plan should be consistent with the Work Schedule of Form TECH-8.*

*c) Organization and Staffing. In this chapter you should propose the structure and composition of your team. You should list the main disciplines of the assignment, the key expert responsible, and proposed technical and support staff.]*



FORM TECH-6. CURRICULUM VITAE (CV) FOR PROPOSED  
PROFESSIONAL STAFF

---

1. **Proposed Position** *[only one candidate shall be nominated for each position]:* \_\_\_\_\_
2. **Name of Firm** *[Insert name of firm proposing the staff]:* \_\_\_\_\_  
\_\_\_\_\_
3. **Name of Staff** *[Insert full name]:* \_\_\_\_\_
4. **Date of Birth:** \_\_\_\_\_ **Nationality:** \_\_\_\_\_
5. **Education** *[Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment]:* \_\_\_\_\_  
\_\_\_\_\_
6. **Membership of Professional Associations:** \_\_\_\_\_  
\_\_\_\_\_
7. **Other Training** *[Indicate significant training since degrees under 5 - Education were obtained]:* \_\_\_\_\_  
\_\_\_\_\_
8. **Countries of Work Experience:** *[List countries where staff has worked in the last ten years]:* \_\_\_\_\_  
\_\_\_\_\_
9. **Languages** *[For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]:* \_\_\_\_\_  
\_\_\_\_\_
10. **Employment Record** *[Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.]:*

From [Year]: \_\_\_\_ To [Year]: \_\_\_\_\_

Employer: \_\_\_\_\_

Positions held: \_\_\_\_\_

|  |  |
|--|--|
| <p><b>11. Detailed Tasks Assigned</b></p> <p><i>[List all tasks to be performed under this assignment]</i></p> | <p><b>12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned</b></p> <p><i>[Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 11.]</i></p> <p>Name of assignment or project: _____</p> <p>Year: _____</p> <p>Location: _____</p> <p>PA: _____</p> <p>Main project features: _____</p> <p>Positions held: _____</p> <p>Activities performed: _____</p> |
|--|--|

**13. Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

\_\_\_\_\_  
*[Signature of staff member or authorized representative of the staff]* Date: \_\_\_\_\_  
*Day/Month/Year*

Full name of authorized representative: \_\_\_\_\_

FORM TECH-7. STAFFING SCHEDULE<sup>1</sup>

| N <sup>o</sup> | Name of Staff     | Staff input (in the form of a bar chart) <sup>2</sup> |   |   |   |   |   |   |   |   |    |                 |    | Total staff-month input |      |                    |       |  |
|----------------|-------------------|---|---|---|---|---|---|---|---|---|----|-----------------|----|-------------------------|------|--------------------|-------|--|
|                |                   | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11              | 12 | n                       | Home | Field <sup>3</sup> | Total |  |
| <b>Foreign</b> |                   |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
| 1              | [Home]<br>[Field] |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
| 2              |                   |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
| 3              |                   |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
| n              |                   |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
|                |                   |   |   |   |   |   |   |   |   |   |    | <b>Subtotal</b> |    |                         |      |                    |       |  |
| <b>Local</b>   |                   |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
| 1              | [Home]<br>[Field] |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
| 2              |                   |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
| n              |                   |   |   |   |   |   |   |   |   |   |    |                 |    |                         |      |                    |       |  |
|                |                   |   |   |   |   |   |   |   |   |   |    | <b>Subtotal</b> |    |                         |      |                    |       |  |
|                |                   |   |   |   |   |   |   |   |   |   |    | <b>Total</b>    |    |                         |      |                    |       |  |

1 For Professional Staff the input should be indicated individually; for Support Staff it should be indicated by category (e.g.: draftsmen, clerical staff, etc.).  
 2 Months are counted from the start of the assignment. For each staff indicate separately staff input for home and field work.  
 3 Field work means work carried out at a place other than the Consultant's home office.

 Full time input     
  Part time input



## Section 4. Financial Proposal - Standard Forms

*[Comments in brackets [ ] provide guidance to the shortlisted Consultants for the preparation of their Financial Proposals; they should be deleted from the Financial Proposals to be submitted.]*

Financial Proposal Standard Forms shall be used for the preparation of the Financial Proposal according to the instructions provided under para. 14 of Section 2. Such Forms are to be used whichever is the selection method indicated in para. 3 of the Letter of Invitation.

*[The Appendix "Financial Negotiations - Breakdown of Remuneration Rates" is to be only used for financial negotiations when Quality-Based Selection, Selection Based on Qualifications, or Single-Source Selection method is adopted, according to the indications provided under para. 6.3 of Section 2.]*

|   |    |
|---|----|
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| Form FIN-2. Summary of Costs.....   | 34 |
| Form FIN-3. Breakdown of Costs by Activity <sup>1</sup> .....                   | 35 |
| Form FIN-4. Breakdown of Remuneration <sup>1</sup> .....                        | 36 |
| Form FIN-4. Breakdown of Remuneration <sup>1</sup> .....                        | 38 |
| Form FIN-5. Breakdown of Reimbursable Expenses <sup>1</sup> .....               | 39 |
| Form FIN-5. Breakdown of Reimbursable Expenses .....                            | 41 |
| <b>Appendix.</b> Financial Negotiations - Breakdown of Remuneration Rates ..... | 42 |

## FORM FIN-1. FINANCIAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: [Name and address of PA]

Dear Sirs:

We, the undersigned, offer to provide the consulting services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Technical Proposal. Our attached Financial Proposal is for the sum of [Insert amount(s) in words and figures<sup>1</sup>].

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e. before the date indicated in Paragraph Reference 1.12 of the Data Sheet.

Commissions and gratuities paid or to be paid by us to agents relating to this Proposal and Contract execution, if we are awarded the Contract, are listed below<sup>2</sup>:

| Name and Address of Agents | Amount and Currency | Purpose of Commission or Gratuity |
|----------------------------|---------------------|-----------------------------------|
| _____                      | _____               | _____                             |
| _____                      | _____               | _____                             |
| _____                      | _____               | _____                             |

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

We remain,

Yours sincerely,

Authorized Signature [In full and initials]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

- 1 Amounts must coincide with the ones indicated under Total Cost of Financial proposal in Form FIN-2.
- 2 If applicable, replace this paragraph with: "No commissions or gratuities have been or are to be paid by us to agents relating to this Proposal and Contract execution."



FORM FIN-2. SUMMARY OF COSTS

| Item   | Costs                     |                         |
|--|---------------------------|-------------------------|
|  | Indicate Foreign Currency | Indicate Local Currency |
| Total Costs of Financial Proposal <sup>2</sup> |                           |                         |

- 1 Indicate between brackets the name of the foreign currency. Maximum of three currencies; use as many columns as needed, and delete the others.
- 2 Indicate the total costs excluding local taxes to be paid by the PA in each currency. Such total costs must coincide with the sum of the relevant Subtotals indicated in all Forms FIN-3 provided with the Proposal.

FORM FIN-3. BREAKDOWN OF COSTS BY ACTIVITY<sup>1</sup>

| Group of Activities (Phase): <sup>2</sup> | Description: <sup>3</sup> | Costs  |  |  |
|---|---------------------------|--|--|--|
|   |                           | [Indicate Foreign Currency # 1] <sup>4</sup> | [Indicate Foreign Currency # 2] <sup>4</sup> | [Indicate Foreign Currency # 3] <sup>4</sup> |
| Cost component                            |                           |  |  | [Indicate Local Currency]                    |
| Remuneration <sup>5</sup>                 |                           |  |  |  |
| Reimbursable Expenses <sup>5</sup>        |                           |  |  |  |
| Subtotals                                 |                           |  |  |  |

- 1 Form FIN-3 shall be filled at least for the whole assignment. In case some of the activities require different modes of billing and payment (e.g.: the assignment is phased, and each phase has a different payment schedule), the Consultant shall fill a separate Form FIN-3 for each group of activities. For each currency, the sum of the relevant Subtotals of all Forms FIN-3 provided must coincide with the Total Costs of Financial Proposal indicated in Form FIN-2.
- 2 Names of activities (phase) should be the same as, or correspond to the ones indicated in the second column of Form TECH-8.
- 3 Short description of the activities whose cost breakdown is provided in this Form.
- 4 Indicate between brackets the name of the foreign currency. Use the same columns and currencies of Form FIN-2.
- 5 For each currency, Remuneration and Reimbursable Expenses must respectively coincide with relevant Total Costs indicated in Forms FIN-4, and FIN-5.

**FORM FIN-4. BREAKDOWN OF REMUNERATION<sup>1</sup>**

(This Form FIN-4 shall only be used when it is indicated in Reference Paragraph 19 of the Data Sheet that remuneration shall be Time Based)

| Group of Activities (Phase): _____ |                       |                               |                                      |  |  |  |  |
|------------------------------------|-----------------------|-------------------------------|--------------------------------------|--|--|--|--|
| Name <sup>2</sup>                  | Position <sup>3</sup> | Staff-month Rate <sup>4</sup> | Input <sup>5</sup><br>(Staff-months) | [Indicate Foreign Currency # 1] <sup>6</sup> | [Indicate Foreign Currency # 2] <sup>6</sup> | [Indicate Foreign Currency # 3] <sup>6</sup> | [Indicate Local Currency] <sup>6</sup> |
| <b>Foreign Staff</b>               |                       |                               |                                      |  |  |  |  |
|                                    |                       | [Home]<br>[Field]             |                                      |  |  |  |  |
|                                    |                       |                               |                                      |  |  |  |  |
|                                    |                       |                               |                                      |  |  |  |  |
|                                    |                       |                               |                                      |  |  |  |  |
|                                    |                       |                               |                                      |  |  |  |  |
| <b>Local Staff</b>                 |                       |                               |                                      |  |  |  |  |
|                                    |                       | [Home]<br>[Field]             |                                      |  |  |  |  |
|                                    |                       |                               |                                      |  |  |  |  |
|                                    |                       |                               |                                      |  |  |  |  |
| <b>Total Costs</b>                 |                       |                               |                                      |  |  |  |  |

1 Form FIN-4 shall be filled for each of the Forms FIN-3 provided.  
 2 Professional Staff should be indicated individually; Support Staff should be indicated per category (e.g.: draftsmen, clerical staff).

- 3 Positions of Professional Staff shall coincide with the ones indicated in Form TECH-5.
- 4 Indicate separately staff-month rate and currency for home and field work.
- 5 Indicate, separately for home and field work, the total expected input of staff for carrying out the group of activities or phase indicated in the Form.
- 6 Indicate between brackets the name of the foreign currency. Use the same columns and currencies of Form FIN-2. For each staff indicate the remuneration in the column of the relevant currency, separately for home and field work. Remuneration = Staff-month Rate x Input.

## FORM FIN-4. BREAKDOWN OF REMUNERATION<sup>1</sup>

(This Form FIN-4 shall only be used when it is indicated in Reference Paragraph 19 of the Data Sheet that remuneration shall be Lump-Sum. Information to be provided in this Form shall only be used to establish payments to the Consultant for possible additional services requested by the PA)

| Name <sup>2</sup>    | Position <sup>3</sup> | Staff-month Rate <sup>4</sup> |
|----------------------|-----------------------|-------------------------------|
| <b>Foreign Staff</b> |                       |                               |
|                      |                       | [Home]<br>[Field]             |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
| <b>Local Staff</b>   |                       |                               |
|                      |                       | [Home]<br>[Field]             |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |
|                      |                       |                               |

- 1 Form FIN-4 shall be filled in for the same Professional and Support Staff listed in Form TECH-7.
- 2 Professional Staff should be indicated individually; Support Staff should be indicated per category (e.g.: draftsmen, clerical staff).
- 3 Positions of the Professional Staff shall coincide with the ones indicated in Form TECH-5.
- 4 Indicate separately staff-month rate and currency for home and field work.

**FORM FIN-5. BREAKDOWN OF REIMBURSABLE EXPENSES<sup>1</sup>**

(This Form FIN-5 shall only be used when it is indicated in Reference Paragraph 19 of the Data Sheet that remuneration shall be Time Based)

| Group of Activities (Phase): _____ |   |      |                        |          |  |  |  |  |  |
|------------------------------------|---|------|------------------------|----------|--|--|--|--|--|
| N <sup>o</sup>                     | Description <sup>2</sup>                                      | Unit | Unit Cost <sup>3</sup> | Quantity | [Indicate Foreign Currency # 1] <sup>4</sup> | [Indicate Foreign Currency # 2] <sup>4</sup> | [Indicate Foreign Currency # 3] <sup>4</sup> | [Indicate Local Currency] <sup>4</sup> |  |
|                                    | Per diem allowances   | Day  |                        |          |  |  |  |  |  |
|                                    | International flights <sup>5</sup>                            | Trip |                        |          |  |  |  |  |  |
|                                    | Miscellaneous travel expenses                                 | Trip |                        |          |  |  |  |  |  |
|                                    | Communication costs between [Insert place] and [Insert place] |      |                        |          |  |  |  |  |  |
|                                    | Drafting, reproduction of reports                             |      |                        |          |  |  |  |  |  |
|                                    | Equipment, instruments, materials, supplies, etc.             |      |                        |          |  |  |  |  |  |
|                                    | Shipment of personal effects                                  | Trip |                        |          |  |  |  |  |  |
|                                    | Use of computers, software                                    |      |                        |          |  |  |  |  |  |
|                                    | Laboratory tests.   |      |                        |          |  |  |  |  |  |
|                                    | Subcontracts  |      |                        |          |  |  |  |  |  |
|                                    | Local transportation costs                                    |      |                        |          |  |  |  |  |  |
|                                    | Office rent, clerical assistance                              |      |                        |          |  |  |  |  |  |
|                                    | Training of the PA's personnel <sup>6</sup>                   |      |                        |          |  |  |  |  |  |
| Total Costs                        |   |      |                        |          |  |  |  |  |  |

- 1 Form FIN-5 should be filled for each of the Forms FIN-3 provided, if needed.
- 2 Delete items that are not applicable or add other items according to Paragraph Reference 3.6 of the Data Sheet.
- 3 Indicate unit cost and currency.
- 4 Indicate between brackets the name of the foreign currency. Use the same columns and currencies of Form FIN-2. Indicate the cost of each reimbursable item in the column of the relevant currency. Cost = Unit Cost x Quantity.
- 5 Indicate route of each flight, and if the trip is one- or two-ways.
- 6 Only if the training is a major component of the assignment, defined as such in the TOR.

## FORM FIN-5. BREAKDOWN OF REIMBURSABLE EXPENSES

(This Form FIN-5 shall only be used when it is indicated in Reference Paragraph 19 of the Data Sheet that remuneration shall be Lump Sum. Information to be provided in this Form shall only be used to establish payments to the Consultant for possible additional services requested by the PA)

| N <sup>o</sup> | Description <sup>1</sup>   | Unit | Unit Cost <sup>2</sup> |
|----------------|--|------|------------------------|
|                | Per diem allowances  | Day  |                        |
|                | International flights <sup>3</sup>                               | Trip |                        |
|                | Miscellaneous travel expenses                                    | Trip |                        |
|                | Communication costs between<br>[Insert place] and [Insert place] |      |                        |
|                | Drafting, reproduction of reports                                |      |                        |
|                | Equipment, instruments,<br>materials, supplies, etc.             |      |                        |
|                | Shipment of personal effects                                     | Trip |                        |
|                | Use of computers, software                                       |      |                        |
|                | Laboratory tests.  |      |                        |
|                | Subcontracts   |      |                        |
|                | Local transportation costs                                       |      |                        |
|                | Office rent, clerical assistance                                 |      |                        |
|                | Training of the PA's personnel <sup>4</sup>                      |      |                        |

- 1 Delete items that are not applicable or add other items according to Paragraph Reference 3.6 of the Data Sheet.
- 2 Indicate unit cost and currency.
- 3 Indicate route of each flight, and if the trip is one- or two-ways.
- 4 Only if the training is a major component of the assignment, defined as such in the TOR.



## APPENDIX. FINANCIAL NEGOTIATIONS - BREAKDOWN OF REMUNERATION RATES

(Not to be used when cost is a factor in the evaluation of Proposals)

### 1. Review of Remuneration Rates

1.1 The remuneration rates for staff are made up of salary, social costs, overheads, fee that is profit, and any premium or allowance paid for assignments away from headquarters. To assist the firm in preparing financial negotiations, a Sample Form giving a breakdown of rates is attached (no financial information should be included in the Technical Proposal). Agreed breakdown sheets shall form part of the negotiated contract.

1.2 The PA is charged with the custody of funds from Government of Sindh and is expected to exercise prudence in the expenditure of these funds. The PA is, therefore, concerned with the reasonableness of the firm's Financial Proposal, and, during negotiations, it expects to be able to review audited financial statements backing up the firm's remuneration rates, certified by an independent auditor. The firm shall be prepared to disclose such audited financial statements for the last three years, to substantiate its rates, and accept that its proposed rates and other financial matters are subject to scrutiny. Rate details are discussed below.

(i) **Salary**

This is the gross regular cash salary paid to the individual in the firm's home office. It shall not contain any premium for work away from headquarters or bonus.

(ii) **Social Costs**

Social costs are the costs to the firm of staff's non-monetary benefits. These items include, *inter alia*, social security including pension, medical and life insurance costs, and the cost of a staff member being sick or on vacation. In this regard, the cost of leave for public holidays is not an acceptable social cost nor is the cost of leave taken during an assignment if no additional staff replacement has been provided. Additional leave taken at the end of an assignment in accordance with the firm's leave policy is acceptable as a social cost.

(iii) **Cost of Leave**

The principles of calculating the cost of total days leave per annum as a percentage of basic salary shall normally be as follows:

$$\text{Leave cost as percentage of salary}^1 = \frac{\text{total days leave} \times 100}{[365 - w - ph - v - s]}$$

<sup>1</sup> Where *w* = weekends, *ph* = public holidays, *v* = vacation, and *s* = sick leave.

It is important to note that leave can be considered a social cost only if the PA is not charged for the leave taken.

**(iv) Overheads**

Overhead expenses are the firm's business costs that are not directly related to the execution of the assignment and shall not be reimbursed as separate items under the contract. Typical items are home office costs (partner's time, nonbillable time, time of senior staff monitoring the project, rent, support staff, research, staff training, marketing, etc.), the cost of staff not currently employed on revenue-earning projects, taxes on business activities and business promotion costs. During negotiations, audited financial statements, certified as correct by an independent auditor and supporting the last three years' overheads, shall be available for discussion, together with detailed lists of items making up the overheads and the percentage by which each relates to basic salary. The PA does not accept an add-on margin for social charges, overhead expenses, etc., for staff who are not permanent employees of the firm. In such case, the firm shall be entitled only to administrative costs and fee on the monthly payments charged for subcontracted staff.

**(v) Fee or Profit**

The fee or profit shall be based on the sum of the salary, social costs, and overhead. If any bonuses paid on a regular basis are listed, a corresponding reduction in the profit element shall be expected. Fee or profit shall not be allowed on travel or other reimbursable expenses, unless in the latter case an unusually large amount of procurement of equipment is required. The firm shall note that payments shall be made against an agreed estimated payment schedule as described in the draft form of the contract.

**(vi) Away from Headquarters Allowance or Premium**

Some Consultants pay allowances to staff working away from headquarters. Such allowances are calculated as a percentage of salary and shall not draw overheads or profit.

**(vii) Subsistence Allowances**

Subsistence allowances are not included in the rates, but are paid separately and in local currency. No additional subsistence is payable for dependents—the subsistence rate shall be the same for married and single team members.

Standard rates for the particular country may be used as reference to determine subsistence allowances.

**2. Reimbursable expenses**

- 2.1 The financial negotiations shall further focus on such items as out-of-pocket expenses and other reimbursable expenses. These costs may include, but are not restricted to, cost of surveys, equipment, office rent, supplies, international and local travel, computer

rental, mobilization and demobilization, insurance, and printing. These costs may be either unit rates or reimbursable on the presentation of invoices, in foreign or local currency.

**3. PA Guarantee**

- 3.1 Payments to the firm, including payment of any advance based on cash flow projections covered by a PA guarantee, shall be made according to an agreed estimated schedule ensuring the consultant regular payments in local and foreign currency, as long as the services proceed as planned.

## Sample Form

Consulting Firm:  
Assignment:

Country:  
Date:

### Consultant's Representations Regarding Costs and Charges

We hereby confirm that:

- (a) the basic salaries indicated in the attached table are taken from the firm's payroll records and reflect the current salaries of the staff members listed which have not been raised other than within the normal annual salary increase policy as applied to all the firm's staff;
- (b) attached are true copies of the latest salary slips of the staff members listed;
- (c) the away from headquarters allowances indicated below are those that the Consultants have agreed to pay for this assignment to the staff members listed;
- (d) the factors listed in the attached table for social charges and overhead are based on the firm's average cost experiences for the latest three years as represented by the firm's financial statements; and
- (e) said factors for overhead and social charges do not include any bonuses or other means of profit-sharing.

\_\_\_\_\_  
*[Name of Consulting Firm]*

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Date

Name: \_\_\_\_\_

Title: \_\_\_\_\_



## **Section 5. General Conditions of Contract**

## II. General Conditions of Contract

### 1. GENERAL PROVISIONS

- 1.1 Definitions** Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:
- (a) "Applicable Law" means the Sindh Public Procurement Act, there under Rules 2010.
  - (b) "Procuring Agency PA" means the implementing department which signs the contract
  - (c) "Consultant" means a professional who can study, design, organize, evaluate and manage projects or assess, evaluate and provide specialist advice or give technical assistance for making or drafting policies, institutional reforms and includes private entities, consulting firms, legal advisors, engineering firms, construction managers, management firms, procurement agents, inspection agents, auditors, international and multinational organizations, investment and merchant banks, universities, research institutions, government agencies, nongovernmental organizations, and individuals.
  - (d) "Contract" means the Contract signed by the Parties and all the attached documents listed in its Clause 1, that is General Conditions (GC), the Special Conditions (SC), and the Appendices.
  - (e) "Contract Price" means the price to be paid for the performance of the Services, in accordance with Clause 6;
  - (f) "Effective Date" means the date on which this Contract comes into force and effect pursuant to Clause GC 2.1.
  - (g) "Foreign Currency" means any currency other than the currency of the PA's country.
  - (h) "GC" means these General Conditions of Contract.
  - (i) "Government" means the Government of Sindh.
  - (j) "Local Currency" means Pak Rupees.
  - (k) "Member" means any of the entities that make up the joint venture/consortium/association, and "Members" means all these entities.
  - (l) "Party" means the PA or the Consultant, as the case may be, and "Parties" means both of them.

- (m) "Personnel" means persons hired by the Consultant or by any Sub-Consultants and assigned to the performance of the Services or any part thereof.
- (n) "SC" means the Special Conditions of Contract by which the GC may be amended or supplemented.
- (o) "Services" means the consulting services to be performed by the Consultant pursuant to this Contract, as described in the Terms of References.
- (p) "Sub-Consultants" means any person or entity to whom/which the Consultant subcontracts any part of the Services.
- (q) "In writing" means communicated in written form with proof of receipt.

- 1.2 Law Governing Contract** This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the applicable law.
- 1.3 Language** This Contract is executed in the language specified in the SC, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.
- 1.4 Notices**
- 1.4.1 Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent to such Party at the address specified in the SC.
  - 1.4.2 A Party may change its address for notice hereunder by giving the other Party notice in writing of such change to the address specified in the SC.
- 1.5 Location** The Services shall be performed at such locations as are specified in special condition of contract and, where the location of a particular task is not so specified, at such locations, whether in the Government's country or elsewhere, as the PA may approve.
- 1.6 Authority of Member in Charge** In case the Consultant consists of a joint venture/ consortium/ association of more than one individual firms, the Members hereby authorize the individual firms or specified in the SC to act on their behalf in exercising all the Consultant's rights and obligations towards the PA under this Contract, including without limitation the receiving of instructions and payments from the PA.



**1.7 Authorized Representatives**

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

**1.8 Taxes and Duties**

The Consultant, Sub-Consultants, and their Personnel shall pay such direct or indirect taxes, duties, fees, and other impositions levied under the Applicable Law as specified in the SC, the amount of which is deemed to have been included in the Contract Price.

**1.9 Fraud and Corruption**

A. If the PA determines that the Consultant and/or its Personnel, sub-contractors, sub-consultants, services providers and suppliers has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices, in competing for or in executing the Contract, then the PA may, after giving 14 days notice to the Consultant, terminate the Consultant's employment under the Contract, and may resort to other remedies including blacklisting/disqualification as provided in SPPR 2010.

Any personnel of the Consultant who engages in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Contract, shall be removed in accordance with Sub-Clause 4.2.

**Integrity Pact**

B. If the Consultant or any of his Sub-consultants, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Consultant as Appendix-G to this Form of Contract, then the Client shall be entitled to:

- (a) recover from the Consultant an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Consultant or any of his Sub-consultant, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Consultant any loss or damage to the Client as a result of such termination or of any other corrupt business practices of the Consultant or any of his Sub-consultant, agents or servants.

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Consultant shall proceed in accordance with Sub-Clause 1.9 A. Payment upon such termination shall be made under Sub-Clause 1.9 A after having deducted the amounts due to the Client under 19 B Sub-Para (a) and (c).

## 2. COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT

- 2.1 Effectiveness of Contract** This Contract shall come into effect on the date the Contract is signed by both Parties or such other later date as may be stated in the SC. The date the Contract comes into effect is defined as the Effective Date.
- 2.2 Commencement of Services** The Consultant shall begin carrying out the Services not later than the number of days after the Effective Date specified in the SC.
- 2.3 Expiration of Contract** Unless terminated earlier pursuant to Clause GC 2.6 hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SC.
- 2.4 Modifications or Variations** Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.
- 2.5 Force Majeure** The failure on the part of the parties to perform their obligation under the contract will not be considered a default if such failure is the result of natural calamities, disasters and circumstances beyond the control of the parties.
- 2.5.2 No Breach of Contract** The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.
- 2.5.3 Extension of Time** Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
- 2.5.4 Payments** During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

## 2.6 Termination

### 2.6.1 By the PA

The PA may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (f) of this Clause GC 2.6.1. In such an occurrence the PA shall give a not less than thirty (30) days' written notice of termination to the Consultant, and sixty (60) days' in the case of the event referred to in (e).

- (a) If the Consultant does not remedy the failure in the performance of their obligations under the Contract, within thirty (30) days after being notified or within any further period as the PA may have subsequently approved in writing.
- (b) If the Consultant becomes insolvent or bankrupt.
- (c) If the Consultant, in the judgment of the PA has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- (d) If, as the result of Force Majeure, the Consultant(s) are unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (e) If the PA, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.
- (f) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GC 8 hereof.

### 2.6.2 By the Consultant

The Consultants may terminate this Contract, by not less than thirty (30) days' written notice to the PA, such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (c) of this Clause GC 2.6.2:

- (a) If the PA fails to pay any money due to the Consultant pursuant to this Contract without consultants fault.
- (b) Pursuant to Clause GC 7 hereof within forty-five (45) days after receiving written notice from the Consultant that such payment is overdue.
- (c) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (d) If the PA fails to comply with any final decision reached as a result of arbitration pursuant to Clause GC 8 hereof.

2.6.3 Payment  
upon  
Termination

Upon termination of this Contract pursuant to Clauses GC 2.6.1 or GC 2.6.2, the PA shall make the following payments to the Consultant:

- (a) payment pursuant to Clause GC 6 for Services satisfactorily performed prior to the effective date of termination;
- (b) except in the case of termination pursuant to paragraphs (a) through (c), and (f) of Clause GC 2.6.1, reimbursement of any reasonable cost incident to the prompt and orderly termination of the Contract, including the cost of the return travel of the Personnel and their eligible dependents.

### 3. OBLIGATIONS OF THE CONSULTANT

#### 3.1 General

3.1.1 Standard of  
Performance

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

3.2 Conflict of  
Interests

The Consultant shall hold the PA's interests paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.

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

The payment of the Consultant pursuant to Clause GC 6 shall constitute the Consultant's only payment in connection with this Contract or the Services, and the Consultant shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Consultant shall use their best efforts to ensure that the Personnel, any Sub-Consultants, and agents of either of them similarly shall not receive any such additional payment.

3.2.2 Consultant and  
Affiliates not to be  
Otherwise  
Interested in  
Project

The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-Consultants and any entity affiliated with such Sub-Consultants, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Consultant's Services for the preparation or implementation of the project.

- 3.2.3 **Prohibition of Conflicting Activities** The Consultant shall not engage, and shall cause their Personnel as well as their Sub-Consultants and their Personnel not to engage, either directly or indirectly, in any business or professional activities which would conflict with the activities assigned to them under this Contract.
- 3.3 **Confidentiality** Except with the prior written consent of the PA, the Consultant and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Personnel make public the recommendations formulated in the course of, or as a result of, the Services.
- 3.4 **Insurance to be Taken Out by the Consultant** The Consultant (a) shall take out and maintain, and shall cause any Sub-Consultants to take out and maintain, at their (or the Sub-Consultants', as the case may be) own cost but on terms and conditions approved by the PA, insurance against the risks, and for the coverage, as shall be specified in the SC; and (b) at the PA's request, shall provide evidence to the PA showing that such insurance has been taken out and maintained and that the current premiums have been paid.
- 3.5 **Consultant's Actions Requiring PA's Prior Approval** The Consultant shall obtain the PA's prior approval in writing before taking any of the following actions:
- (a) entering into a subcontract for the performance of any part of the Services,
  - (b) appointing such members of the Personnel not listed by name in Appendix C, and
  - (c) any other action that may be specified in the SC.
- 3.6 **Reporting Obligations**
- (a) The Consultant shall submit to the PA the reports and documents specified in (PA may insert appendix) hereto, in the form, in the numbers and within the time periods set forth in the said Appendix.
  - (b) Final reports shall be delivered in CD ROM in addition to the hard copies specified in said Appendix.
- 3.7 **Documents Prepared by the Consultant to be the Property of the PA**
- (a) All plans, drawings, specifications, designs, reports, other documents and software submitted by the Consultant under this Contract shall become and remain the property of the PA, and the Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the PA, together with a detailed inventory thereof.
  - (b) The Consultant may retain a copy of such documents and software. Restrictions about the future use of these documents, if any, shall be

specified in the SC.

**3.8 Accounting, Inspection and Auditing**

3.8.1 The Consultant shall keep, and shall cause its Sub-consultants to keep, accurate and systematic accounts and records in respect of the Contract, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify relevant time changes and costs.

3.8.2 The Consultant shall permit, and shall cause its Sub-consultants to permit, the PA and/or persons appointed by the PA to inspect its accounts and records relating to the performance of the Contract and the submission of the Proposal to provide the Services, and to have such accounts and records audited by auditors appointed by the PA if requested by the PA. The Consultant's attention is drawn to Clause 1.9.1 which provides, inter alia, that acts intended to materially impede the exercise of the PA's inspection and audit rights provided for under Clause 3.8 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the PA's prevailing sanctions procedures.).

**4. CONSULTANT'S PERSONNEL**

**4.1 Description of Personnel**

The Consultant shall employ and provide such qualified and experienced Personnel and Sub-Consultants as are required to carry out the Services. The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Consultant's Key Personnel are described in Appendix C. The Key Personnel and Sub-Consultants listed by title as well as by name in Appendix C are hereby approved by the PA.

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

(a) Except as the PA may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Consultant, such as retirement, death, medical incapacity, among others, it becomes necessary to replace any of the Key Personnel, the Consultant shall provide as a replacement a person of equivalent or better qualifications.

(b) If the PA finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultant shall, at the PA's written request specifying the grounds thereof, provide as a replacement a person with qualifications and

experience acceptable to the PA.

- (c) The Consultant shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

## 5. OBLIGATIONS OF THE PA

- 5.1 Assistance and Exemptions** The PA shall use its best efforts to ensure that the Government shall provide the Consultant such assistance and exemptions as specified in the SC.
- 5.2 Change in the Applicable Law Related to Taxes and Duties** If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred to in Clauses GC 6.2 (a) or (b), as the case may be.
- 5.3 Services and Facilities** The PA shall make available free of charge to the Consultant the Services and Facilities listed under Appendix F.

## 6. PAYMENTS TO THE CONSULTANT

- 6.1 Security** The consultant has to submit bid security and the performance security at the rate mention in SC.
- 6.2 Lump-Sum Payment** The total payment due to the Consultant shall not exceed the Contract Price which is an all inclusive fixed lump-sum covering all costs required to carry out the Services described in Appendix A. Except as provided in Clause 5.2, the Contract Price may only be increased above the amounts stated in Clause 6.2 if the Parties have agreed to additional payments in accordance with Clause 2.4.
- 6.3 Contract Price** The price payable in Pak Rupees/foreign currency/ is set forth in the SC.
- 6.4 Payment for Additional Services** For the purpose of determining the remuneration due for additional services as may be agreed under Clause 2.4, a breakdown of the lump-sum price is provided in Appendices D and E.
- 6.5 Terms and Conditions of Payment** Payments will be made to the account of the Consultant and according to the payment schedule stated in the SC. Unless otherwise stated in the SC, the first payment shall be made against the provision by the Consultant of an advance payment guarantee for the same amount, and

shall be valid for the period stated in the SC. Such guarantee shall be in the form set forth in Appendix G hereto, or in such other form, as the PA shall have approved in writing. Any other payment shall be made after the conditions listed in the SC for such payment have been met, and the Consultant has submitted an invoice to the PA specifying the amount due.

## **7. GOOD FAITH**

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

## **8. SETTLEMENT OF DISPUTES**

- 8.1 Amicable Settlement** The Parties agree that the avoidance or early resolution of disputes is crucial for a smooth execution of the Contract and the success of the assignment. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.
- 8.2 Dispute Resolution** Any dispute between the Parties as to matters arising pursuant to this Contract that cannot be settled amicably within thirty (30) days after receipt by one Party of the other Party's request for such amicable settlement may be submitted by either Party for settlement in accordance with the provisions specified in the SC.



**Section 6. Special Conditions of Contract**

### III. Special Conditions of Contract

Number of  
GC Clause

Amendments of, and Supplements to, Clauses in the  
General Conditions of Contract

1.1 Sindh Public Procurement Act and Sindh Public Procurement Rules 2010.

1.3 The language is English.

1.4 The addresses are:

Procuring Agency: Karachi Fisheries Harbour Authority, Fish  
Harbour, West Wharf Road, Karachi.

Attention: Managing Director

Facsimile: 92-21-32313199

E-mail: info@karachifishharbour.com

Consultant: \_\_\_\_\_

---

Attention:

Facsimile:

E-mail:

1.7 The Authorized Representatives are:

For the PA: *Managing Director, Karachi Fisheries Harbour Authority.*  
*Tel: 92-21-99214816*

For the Consultant: \_\_\_\_\_

1.8 *The consultant, sub-consultants and personnel shall pay such taxes, duties, fees and other impositions as may be levied under the applicable law.*

2.1 *The contract shall come into effect on the date when the contract is signed by both.*

2.2 *The consultant shall commence the services within seven days after the Effective Date as stated in the SC.*

2.3 The time period shall be

2.6.1 The PA may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (h) of this Clause GC 2.6.1. In such an occurrence the PA shall give a not less than thirty (30) days' written notice of termination to the Consultant, and sixty (60) days' in the case of the event referred to in (e).

Following is added;

(g) If the Consultant submits to the procuring agency a false statement which has a material effect on the rights, obligations or the interest of the procuring agency.

(h) If the Consultant is held by the procuring agency to have a conflict of interest in performance of the Contract or any portion thereof.

3.4 The risks and the coverage shall be as follows:

(a) Third Party motor vehicle liability insurance in respect of motor vehicles operated by the Consultant or its Personnel or any Sub-Consultants or their Personnel, with a minimum coverage of comprehensive insurance.

(b) Third Party liability insurance, as per applicable law.

(c) professional liability insurance, with a minimum coverage of **Full Cost of the Contract**

## Special Condition of Contract

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

3.5

Following is added

(c) Suspension of Works

(d) Any action under terms Performance Guarantee and Insurance Policy

3.6

(a) The consultant shall submit the reports and documents in (02) numbers

3.7 (b)

The Consultant shall not use these documents and software for purposes unrelated to this Contract without the prior written approval of the PA.

3.8

At the end of GCC clause 3.8, following text is added

The consultant shall refund any amount provision to have been paid in excess of the contractual payments due to the consultant by Client.

5.1

**Not Applicable**

6.1

The Bid Security shall not be less than 3% .

Performance security shall be 5% of Contract Amount.

6.3

The amount shall be in Pak Rupees.

6.5

The accounts are:

for local currency: **Pak Rupees**

Payments shall be made according to the following schedule:

- (a) Ten (10) percent of Contract Price shall be made within seven (07) days of signing of the Contract Agreement against the submission of an equivalent irrevocable bank guarantee from any scheduled bank of Pakistan in favour of Karachi Fisheries Harbour Authority. The advance payment will be set off by the Client in five (05) equal

## **Special Condition of Contract**

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installments against the statements until the advance payment has been fully set off. The bank guarantee will be released when the advance payment has been fully set off.

- (b) Ten (10) percent of the Contract Price shall be paid after the completion of Design Review Stage as referred in TOR.
- (c) Five (05) percent of the Contract Price shall be paid after the completion of Construction Contract Execution Stage as referred in TOR.
- (d) Seventy (70) percent of the Contract Price shall be paid in proportion commensurate with the contractor running bills during the construction period for the Construction Supervision Stage as referred in TOR.
- (e) Five (05) percent of the Contract Price shall be paid after the completion of Defects Liability Stage as referred in TOR.

**8.2** Disputes shall be settled by complaint redressal committee define in SPPR 2010 or through arbitration Act of 1940:

**8.3** **Following shall be added**  
**Professional Liability of Consultant**

- i. The Consultants shall be liable for consequence of omissions or commissions on his or their part or on the part. The extent of liability of consultant shall be incorporated in the contract, and in no case shall be, less than remuneration, excluding out of pocket expenses, not shall the liability exceed twice the amount of remuneration.
- ii. The consultant shall be liable for all losses or damages suffered by the procuring agency on account of any misconduct by the consultant in performing the consulting services.

**Appendix A**

**(INTEGRITY PACT)**

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.  
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN  
CONTRACTS WORTH RS. 10.00 MILLION OR MORE**

Contract No. \_\_\_\_\_ Dated \_\_\_\_\_  
Contract Value: \_\_\_\_\_  
Contract Title: \_\_\_\_\_

..... [name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [name of Supplier] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Buyer: .....

Name of Seller/Supplier: .....

Signature: .....

Signature: .....

[Seal]

[Seal]

**CONTRACT**

THIS CONTRACT ("Contract") is entered into this *[insert starting date of assignment]*, by and between *[insert PA's name]* ("the PA") having its principal place of business at *[insert PA's address]*, and *[insert Consultant's name]* ("the Consultant") having its principal office located at *[insert Consultant's address]*.

WHEREAS, the PA wishes to have the Consultant performing the services hereinafter referred to, and

WHEREAS, the Consultant is willing to perform these services,

NOW THEREFORE THE PARTIES hereby agree as follows:

1. **Services**
  - (i) The Consultant shall perform the services specified in Annex A, "Terms of Reference and Scope of Services," which is made an integral part of this Contract ("the Services").
  - (ii) The Consultant shall provide the reports listed in Annex B, "Consultant's Reporting Obligations," within the time periods listed in such Annex, and the personnel listed in Annex C, "Cost Estimate of Services, List of Personnel and Schedule of Rates" to perform the Services.
2. **Term** The Consultant shall perform the Services during the period commencing *[insert start date]* and continuing through *[insert completion date]* or any other period as may be subsequently agreed by the parties in writing.
3. **Payment**
  - A. Ceiling

For Services rendered pursuant to Annex A, the PA shall pay the Consultant an amount not to exceed *[insert amount]*. This amount has been established based on the understanding that it includes all of the Consultant's costs and profits as well as any tax obligation that may be imposed on the Consultant.
  - C. Payment Conditions

Payment shall be made in *[specify currency]*, no later than 30 days following submission by the Consultant of invoices in duplicate to the Coordinator designated in paragraph 4.
4. **Economic Price Adjustment** In order to adjust the remuneration for inflation, a price adjustment provision has been included if the contract has duration of more than 18 months or if the inflation is expected to exceed ---% per annum. The adjustment will be made every 12 months after the date of the contract for remuneration. Remuneration will be adjusted by using the relevant index as per following provision:  
"Payments for remuneration made in accordance with Clause 3 shall be adjusted as follows:

Remuneration pursuant to the rates set forth in Annex C shall be adjusted every 12 months (and, for the first time, with effect for the remuneration earned in the [13] th calendar month after the date of the Contract) by applying the following formula:

$$R_t = R_{t_0} \times \frac{I_t}{I_{t_0}}$$

where  $R_t$  is the adjusted remuneration,  $R_{t_0}$  is the remuneration payable on the basis of the rates set forth in Annex C for payable remuneration,  $I_t$  is the official rate of inflation for the first month for which the adjustment is to have effect and,  $I_{t_0}$  is the official rate of inflation for the month of the date of the Contract.”]

**5. Project Administration**

A. Coordinator

The PA designates Mr./Ms. [insert name] as PA’s Coordinator; the Coordinator shall be responsible for the coordination of activities under the Contract, for receiving and approving invoices for payment, and for acceptance of the deliverables by the PA.

B. Timesheets

During the course of their work under this Contract the Consultant’s employees providing services under this Contract may be required to complete timesheets or any other document used to identify time spent, as instructed by the Coordinator.

C. Records and Accounts

The Consultant shall keep accurate and systematic records and accounts in respect of the Services, which will clearly identify all charges and expenses. The PA reserves the right to audit, or to nominate a reputable accounting firm to audit, the Consultant’s records relating to amounts claimed under this Contract during its term and any extension, and for a period of three months thereafter.

**6. Performance Standard**

The Consultant undertakes to perform the Services with the highest standards of professional and ethical competence and integrity. The Consultant shall promptly replace any employees assigned under this Contract that the PA considers unsatisfactory.

**7. Confidentiality**

The Consultants shall not, during the term of this Contract and within two years after its expiration, disclose any proprietary or confidential information relating to the Services, this Contract or the PA’s business or operations without the prior written consent of the PA.

**8. Ownership of Material**

Any studies, reports or other material, graphic, software or otherwise, prepared by the Consultant for the PA under the Contract shall belong to and remain the property of the PA. The Consultant may retain a copy of such documents and



software.

- 9. **Consultant Not to be Engaged in Certain Activities** The Consultant agrees that, during the term of this Contract and after its termination, the Consultants and any entity affiliated with the Consultant, shall be disqualified from providing goods, works or services (other than the Services or any continuation thereof) for any project resulting from or closely related to the Services.
- 10. **Insurance** The Consultant will be responsible for taking out any appropriate insurance coverage for their personnel and equipments.
- 11. **Assignment** The Consultant shall not assign this Contract or Subcontract any portion thereof it without the PA's prior written consent.
- 12. **Law Governing Contract and Language** The Contract shall be governed by the laws of Islamic Republic of Pakistan or the Provincial Government and the language of the Contract shall be English.
- 13. **Dispute Resolution** Any dispute arising out of this Contract, which cannot be amicably settled between the parties, shall be referred to adjudication/arbitration in accordance with the Arbitration Act of 1940

FOR THE PA

FOR THE CONSULTANT

Signed by \_\_\_\_\_

Signed by \_\_\_\_\_

Title: \_\_\_\_\_

**Section 7. Terms of Reference**

## TERMS OF REFERENCE FOR CONSULTING SERVICES

### 1. Background

There was a restriction on export of fisheries products from Pakistan to the EU during Feb, 2007 and March, 2013. During the visit of EU inspectors from 22<sup>nd</sup> to 26<sup>th</sup> January 2007, they reported a number of deficiencies in the system designed to ensure that such export were complying with EU sanitary and phyto-sanitary (SPS) requirements. As a result they de-listed all Processing Units for Exporting Fisheries Products from Pakistan to EU Countries, which was a great concern for the Government Pakistan and Government of Sindh.

Thereafter, continuous efforts by the Government of Sindh have been under way to have the ban lifted. In this regard, an ADP scheme namely "**Rehabilitation & Renovation of Karachi Fish Harbour**" was approved by the Government of Sindh at a cost of Rs.555.951 million. The scheme has two phases.

**Phase-I** at a cost of **Rs.505.726 million** covering short term measures as detailed below was completed in June 2012.

#### A. Procurement of Machinery and Equipment for handling port operation

|                                |        |
|--------------------------------|--------|
| • Fish Crates                  | 20,000 |
| • On-Board Flake Ice Plant     | 27     |
| • Insulated Plastic Containers | 1,500  |
| • Plastic Baskets              | 15,000 |
| • Fork Lifters                 | 06     |
| • Pallets                      | 400    |
| • S. S. Hand Pallet Trucks     | 150    |
| • Vehicles                     | 06     |
| • Computer/Laptop (6+2)        | 08     |

#### B. Up-gradation of fishing boats 538

|                                   |     |
|-----------------------------------|-----|
| (i) Large Boats                   | 200 |
| (ii) Small Boats                  |     |
| (a) Trawling Boats with Fish Hold | 63  |
| (b) Hora Boats with Fish Tank     | 275 |

All above works were successfully completed. The success of the scheme can be measured from the fact that after completion of project, more than 500 boats have been modified by boat owners at their own cost without GOS funding.

After completion of Phase-I, the export of seafood has been allowed to EU countries since 12.03.2013 with the help of efforts made by Government of Sindh, KFHA & MFD.

## **2. Objectives**

A Survey & Feasibility Study of Karachi Fish Harbour was carried out by KFHA completed in 2012 which includes Topographical Survey, Bathymetry Survey, Onshore and Offshore Geotechnical Investigation, Design analysis & calculations, drawings and specifications of the project, Detail Cost Estimates and also preparation of a Master Plan. The Master Plan strives to modernize the Harbour and bring it up to international standards. The total cost of the works has been estimated as Rs.1,260.222 million.

The objective of the consulting services is to provide technical support and assistance to the Karachi Fisheries Harbour Authority (KFHA) through construction supervision of the project "Rehabilitation & Renovation of Karachi Fish Harbour – External Services". The KFHA requires professional skills, personnel and technical resources from the consulting firm to undertake different components of this project, i.e. Fire Fighting system, Water Supply System, 0.5 MGD RO Plant, Sewerage Network System, Sewerage Treatment Plants, External electrical works, Rehabilitation of Steel Bridges and Floating pontoons, RCC Roads, Stone Pitching, Floating Check Post, CCTV System for Harbour, Fixed Jetties and Main KFHA Boundary Wall, etc.

## **3. Scope of Services**

These Terms of Reference describe the scope of the construction supervision services for "Rehabilitation and Renovation of Karachi Fish Harbor – External Services"

The services shall cover the following stages:

- (i) The Design Review Stage
- (ii) Construction Contract Execution
- (iii) Construction Supervision Stage
- (iv) Defects Liability Stage

In detail the duties of the Consultant will be as follows:

### **(i) The Design Review Stage:**

- a) The selected consultant is expected to form a team of expertise consisting of all the disciplines required for reviewing the designs, drawings, etc. which will be handed over to them by the client. The consultant will review it and prepare a technical report and suggestions if any.

### **(ii) Construction Contract Execution**

Advise the Client and assist in the preparation of all documentation required to put the Construction Contracts into force; including bid documents, pre qualification, preparation of bid evaluation reports and contract award to proceed, advance payments, etc.

### **(iii) Construction Supervision Stage.**

Consultant shall supervise the execution of the contract. This stage of the engineering works begins on the date set in the Notice to Proceed (NtP)/ Letter of Commencement (LOC) to the contractors which will be issued by KFHA.

*This stage is devoted for actual construction work in the field. The tasks of the Consultant would be:*

- a) Hand over to the Contractor(s) the construction sites of the project components of each part. Prepare the relevant handing over records.
- b) Interpret drawings and specifications and consult with the Client, the contractor(s) and subcontractor(s) if any, ensure compliance with contract documents and specifications and to ensure timely progress of construction work.
- c) Prepare additional drawing details and schedules that may be necessary for the execution of the work. Also coordinate with the design Consultant for clarification of his design/drawing/specification etc. if required.
- d) Check and certify all drawings including shop and erection drawings and as built drawings submitted by contractors.
- e) Consult and advise the Client on various alternatives or options available to the Client for resolving construction problems.
- f) Review and certify all laboratories, shop and mill test reports on the materials and equipment for compliance with specifications. Inspect and verify when necessary any alternative construction materials and methods proposed by contractors.
- g) Monitor and observe quality control tests for concrete, soils, and aggregates as conducted by contractor(s) for proper compliance with contract specifications.
- h) Obtain the necessary certificates of quality and or origin of materials from contractor(s). Expedite procurement, testing and delivery of materials. Advise the Client as for the need for inspection during manufacture and prior to shipment of the various materials and equipment to be supplied under the contract and allow for such inspections to be carried out by the Engineer or a qualified inspection agency.
- i) Inspect, supervise and test works as executed, the construction materials and methods and all plant and equipment to ensure that they comply with the drawings and specifications, or any amendments or variations thereof that the consultant may issue.
- j) Examine and approve proposal made by the contractor(s) and give all necessary instruction to contractor(s) provided that instructions, which will result in an increase in the cost of the works or reduction of the obligations of the contractor(s), will not be given unless the Client has given prior approval.
- k) Prepare variation orders as may be required. Request Cost proposals from the contractor(s) for all variation orders. Prepare an independent estimate of cost for each variation. Negotiate with the contractor(s) to resolve any difference between the contractor(s)' proposed costs and the consultant's estimate. Submit the agreed

**(iv) Defects liability Period**

The tasks of the Consultant during this stage would be:

- a) Review and certify the invoice for the contractor's final payment at the satisfactory completion of all works defects noted at the substantial completion of the project, and the discharge of all outstanding obligations by the contractor(s).
- b) Prepare a comprehensive "Project Completion Report" as required by the Client. It shall summarize briefly the major information contained in previous progress reports in such a way that a clear picture is obtained of the main events and difficulties encountered during Construction and the solutions to main problems that arose. It shall also include a statement of the final cost of the project broken down in appropriate work components, preferably in the form of asset groups suitable for accounting system entry, as compared to the original estimate showing local and foreign currency amounts.

#### **4. The Project**

Karachi Fish Harbour is located on the West Wharf Road as shown in the location map attached. It's a prime area of industrial land in West of Karachi. It is the hub for all fisheries exports and local fish marketing.

The detail features of the project are as follows;

##### **(i) Fire Fighting System**

At present the fire fighting system does not exist. There were serious incidences of fire at the harbor and firefighters had to be arranged from outside the harbor. It was therefore, a dire need to have an independent firefighting system so as to timely attend the fire. Provision has been made in the water reservoir to have enough storage of water for 24 hours to combat the fire at any time.

Fire fighting network laid in the service corridor shall supply water under high pressure through fire fighting pumps. The fire water storage tanks should be filled with sweet water from potable water network or from KW&SB source. The capacity of tank shall be 120,000 gallons based on two hours fire fighting @ 1000 US gallons /minute. Three deep well turbine pumps (two duty plus one stand by) of equal capacity of 500 US gpm and one jockey pump of 50 US gpm shall be provided in fire water pump room. The fire water network will constantly be under pressure of sweet water obtained from potable water source. The system includes hydrants at 55 different points and a Fire Tender with a capacity of 10,000 liters

Polyethylene pipe fittings of required pressure rating will be used in fire fighting network. The pipe will be installed below ground level.

##### **(ii) Sewerage Network / STPs**

The existing sewerage network is old and laden with choke points. The result is not just continual unhygienic conditions at the harbour; the raw, untreated sewerage is discharged into the harbour channel thus greatly polluting the sea water which adversely affects the fish. The absence of proper sewage treatment is a major impediment to the up-gradation of the harbour.

There are a total of three (03) Sewerage Treatment Plants (STP). Of these three, two (02) will be with a capacity of 55,000 GPD with an area of 16 x 22 m. The third STP will be with a capacity of 25,000 GPD with an area of 16 x 12 m. The water shall be treated up to tertiary level and this water could be used for irrigation purposes, for washing the streets or in case of emergency for firefighting.

To improve the environmental condition of fish harbor the sewers will be disposed of in the treatment plant and effluent will be discharged into the open sea.

##### **(iii) Water Supply System & R.O Plant**

The water being used for hygiene, washing and ice production has doubtful purity and is the weakest link in the chain. For storage, life improvement and preservation of fish, ice plays a vital role and as such quality of water for ice used is also important. Due to non-availability of adequate

fresh water, it has become exceedingly difficult to maintain the hygienic conditions at the harbour, thus a major cause of non compliance of EU requirements. Water is a precious commodity at the harbour.

The existing processing plants require ~ 250,000 GPD; fishing vessels and auction halls require ~ 50,000 GPD; while the expected requirement in the near future for fish meal plants, ice flake plants, etc. is more than 250,000 GPD. Most of this requirement is presently met through bowzers.

Karachi Fisheries Harbour Authority wants to utilize sea water by means of installing an RO (Reverse Osmosis) plant. For the RO Plant, the underground storage tank for potable and fire water will be provided with a capacity of 356,600 gallons. This capacity will be catered for with a 25 x 20 m RCC structured tank with a depth of 3 m.

The Reverse Osmosis (RO) Plant room will be of 0.5 MGD capacity with separate provision for the Air Saturator units, Sludge Channels, Flush Tank, Flush Pumps, air compressors, First and Second Stage Flocculators and Electrical Distribution rooms.

**Feed Water Quality**

TDS : 45,000 ppm max  
Temp : 25°C

**Product Quantity / Quality**

Flow : 0.5 MGD  
Recovery : 40%  
TDS : Potable water as per WHO drinking water standard with Max TDS of 500 ppm

**Feed Source**

The feed source to be developed based on Geo survey to identify and quantify the feed water quantity required for RO feed. The number of wells might vary depending on bore discharge but not less than 30 Nos. with 5 Nos. as standby to compensate for variation of flow and disruption due to maintenance requirements. The normal flow from each well should be considered as an average of 110 GPM.

**Process Description**

The location of the bore wells shall be decided based on Geo survey and availability of land, the process shall include:

- MMF (Multimedia filters)
- UF (Ultra filtration)
- RO with Energy recovery device preferable pressure exchanger
- product disinfection and remineralisation

The Water from the bore wells to be stored in intermediate storage tanks to feed to the downstream process including MMF (multimedia Filters) to remove suspended solids before the water is fed to UF (ultra filtration) unit to bring SDI (silt density Index) below 3 which shall be the Sindh Public Procurement Regulatory Authority (SPPRA)



quality required before its fed to RO unit to achieve better performance out of RO unit, better Life out of RO membranes and reduce shut down time.

The RO units are designed with parallel stream of pre-treatment. The RO systems are to be designed with energy efficient devices preferably with pressure exchanger to keep the overall system energy requirement to a minimum possible. The system will be complete in all respects with dosing and control equipment. The post treatment and CIP systems to be included as standard for each train.

The process should be complete in all respects from supply of raw water to disposal of Reject water or Product storage.

**(iv) Water Tower**

Condition of the existing water works comprising of underground and overhead water tanks are not in good condition. The underground tank in particular is damaged and hence both these structures need to be reconstructed. The land such vacated being a prime land, has been planned for use as a commercial land. The new proposed tanks shall be constructed at new location. The underground tank shall serve for dual purpose i.e. for water supply and for the firefighting system.

The Water from the sea intake pipeline will be stored in intermediate storage tanks to feed to the downstream process including MMF (multimedia Filters) to remove suspended solids before the water is fed to the UF (ultra filtration) unit to bring SDI (silt density Index) below three, which shall be the quality required before it is fed to the RO unit to achieve better performance and output of RO unit, RO membranes and reduce shut down time.

From the Reverse Osmosis (RO) Plant, the recovered water at the rate of 40% will be pumped up to the Overhead Water Tower. Following are the technical parameters of the Overhead Water Tank:

|                      |        |
|----------------------|--------|
| Height from (FGL) :  | 32.7 m |
| Capacity (Gallons) : | 30,000 |

**(v) Ancillary Buildings**

This category of buildings included the following:

|                  |                                       |
|------------------|---------------------------------------|
| Guard Room :     | 03                                    |
| Security Room :  | 03                                    |
| Generator Room : | 01                                    |
| Sub-Station :    | 03                                    |
| Toilets :        | Multiple (For Public & Working Staff) |
| Boundary Wall :  | 1.6 m                                 |

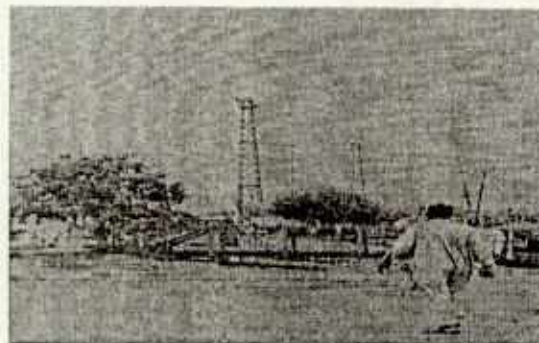
**(vi) External Electrical Works**

General condition of the existing Flood Light Towers is not satisfactory as the steel structure and the footings of the towers have deteriorated due to weathering effects. Also the general Lux level of the existing lighting is very low and many light fixtures are missing and most of the lights need replacements.

Due to the dilapidated condition, all the towers shall be replaced with 25 m high floodlights to lighten up the entire harbor to its originally designed levels.

The external electrical works also includes the following:

|                             |   |   |
|-----------------------------|---|---|
| Lighting & Power            | : | Centralized Sub-Station, Potable Water Pump, Fire Water Pump, Overhead Water Tank, Gate House, Generator Room, Security Rooms 1, 2 and 3, Toilet Block.             |
| Lighting & Power Protection | : | Overhead Water Tank.  |
| Cable Route Plan            | : | LV & HV Routing.  |
| External Lighting Layout    | : | On-site.  |
| Single Line Diagram         | : | Potable Water Pump, Fire Water Pump, Overhead Water Tank, Gate House, Generator Room, Security Rooms 1, 2 and 3, Toilet Block, Main HT Panel & Distribution Boards. |



**(vii) Boundary Wall (Around the STPs & RO Plant)**

There are two categories of Boundary Walls. The category discussed in this section is the one for the RO Plant and the STPs, the other one being for the overall KFHA. Following parameters pertain to the boundary walls:

|              |   |                              |
|--------------|---|------------------------------|
| Height       | : | 1.65 m                       |
| Construction | : | RCC Frame with Block Masonry |

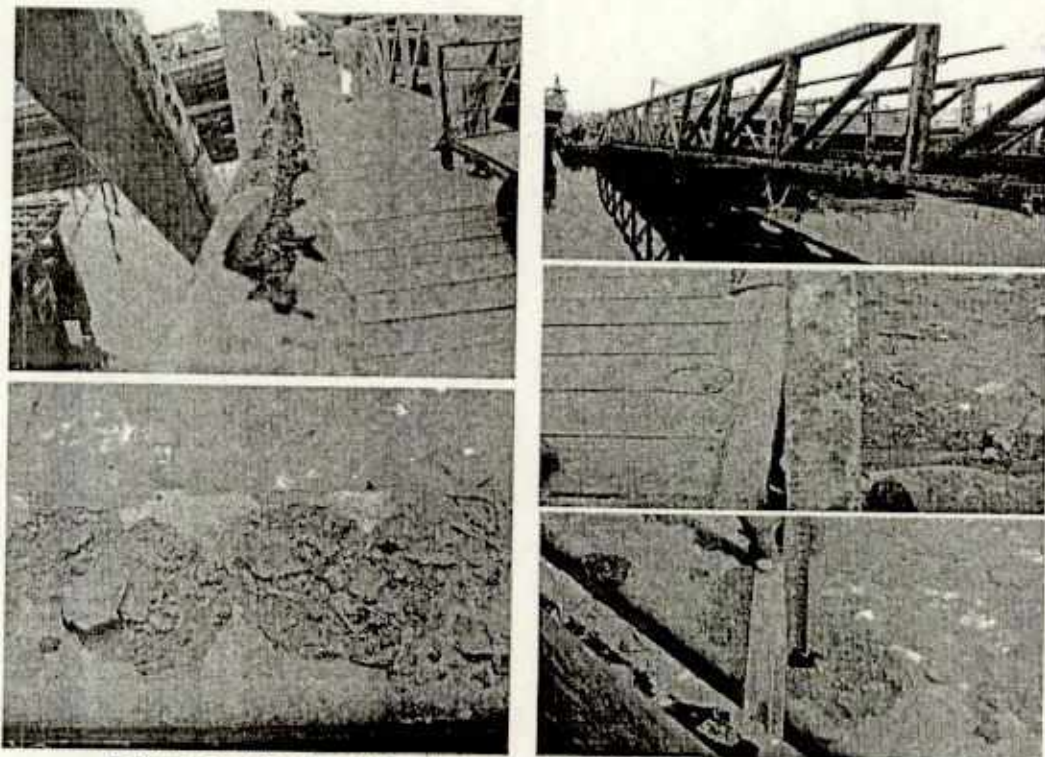
**(viii) Rehabilitation of Approach Bridges & Floating pontoons**

There are 10 floating pontoons; each consisting of 2 units of size 35 m x 5 m, which are guided by steel dolphin piles. Access to / from the shore is provided by a 30 m long and 2.5 m wide steel bridge with wooden planking.

Due to the harsh marine environment, which is very hot and humid, the concrete and steel structure has been badly affected, resulting in deterioration of the steel structure, steel enforcement and resulting in spalling of concrete at various spots in the concrete pontoons. Cracks and erosions could also be spotted at scattered locations. There is a dire need to restore the entire concrete and steel structure in accordance with international standards to enhance the life of these units.

In addition to the above, the Dolphin Piles are also in shambles and need to be rectified / replaced partly at most of the locations. All steel members of the steel structure shall have a special state of the art marine coating.

With the passage of time lot of wear and tear of concrete and steel has taken place and the existing concrete pontoons and steel bridges need extensive repair to upgrade their present condition.



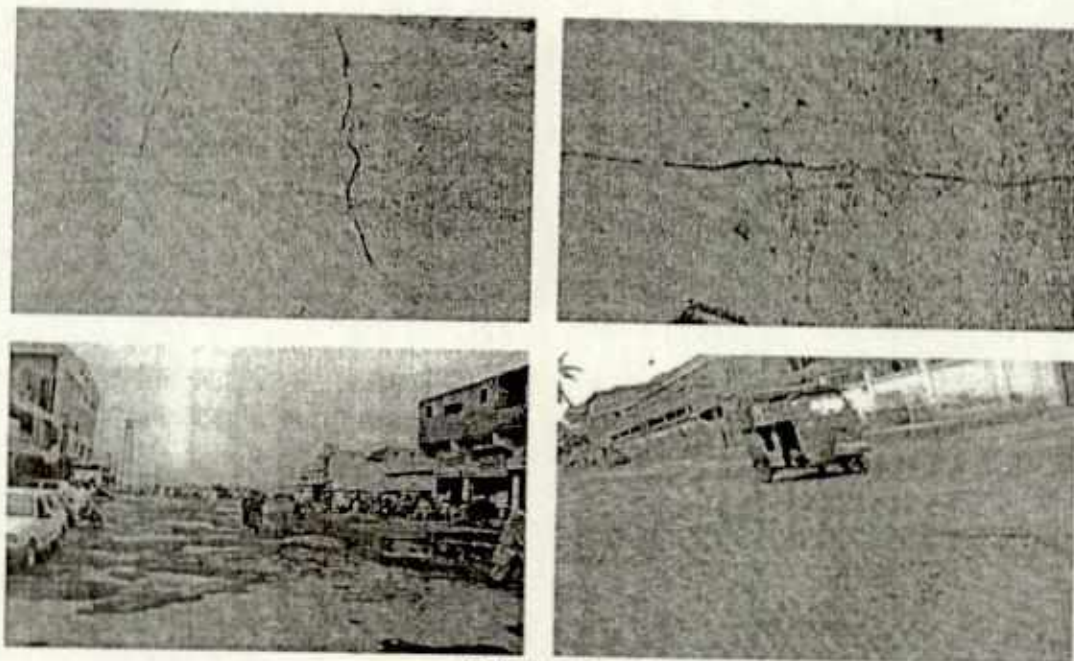
**Worn Out State of the Approach Bridges & Pontoons**

**(ix) RCC Roads**

The existing roads in the surroundings of Karachi Fish Harbor are in a deteriorated state. The roads have been constructed with rigid and flexible pavements. Patches can be seen at scattered locations on the entire concrete road of 1.4 km length. All the expansion joints need to be refurbished and repaired. The side shoulders need to be reconstructed with concrete paver bricks. Cracks have also occurred on many parts of roads. In addition, the existing RCC 3km long along with concrete footpaths also require maintenance work.

The existing asphalt roads have particularly been damaged to water being used for washing purposes. There was a dire need to construct long life roads made of concrete in place of existing asphalt roads. It has therefore, been decided to replace all the asphalt roads with concrete pavement.

In order to develop the outer harbour area, KFHA has planned to construct additional roads including a 1.4 km long, 9 m wide road, starting from Madina Gate and going all the way to the Slipway. This road will connect Shrimp peeling complex, boat yard and other facilities envisaged above.



*Existing Roads*

**(x) Floating Check Post**

- A Floating Check Post will be developed at the mouth of harbour channel to control movement of boats, to check documents of boats & crew and to collect data of fish catch. This
- check post will be made of floats of HDPE material, which is recyclable, resistant to oil, acids, frost, seawater, corrosion, chemicals and UV rays. These floats can be assembled very fast by interlocking with connecting pins

**(xi) CCTV System for Harbour**

CCTV system for round the clock surveillance of Karachi Fish Harbour will be installed. This system will be connected with Central Command Control to monitor In & Out Gates, Berthing Area, Auction Halls, Industrial Area, Kala Pani Area, etc.

**(xii) Fixed Jetties**

Karachi Fish Harbor Authority, for the easy means of transportation and cargo handling, decides to have 2 NOs new fixed jetties at their Harbor.

The size of jetties is (40x17m & 37x17m) in order to facilitate the cargo handling related to fish meal plant.

**(xiii) Main Boundary Wall**

The existing condition of the boundary wall is in a poor state and has been badly affected due to the weathering conditions. The entire wall shall be demolished and reconstructed at the same location.

The wall shall be 1.65 m high and will comprise of RCC columns and beams with solid block masonry, spanning the entire length of the wall.