

Procurement Process for the Subcontracted Survey (Geological Survey)

The process for selecting the subcontractor is as follows:

1. Project Name	The Project for Capacity Development of Effective River Dikes Management Response to 2022 Flood																										
2. Subcontract Agreement Name	The Geological Survey in the Right Bank Along Lower Indus River under the Project for Capacity Development for Effective River Dike Management Response to the 2022 Flood in the Islamic Republic of Pakistan																										
3. Subcontractor Name	Subcontractor Company : DesignIt Person in Charge : Awais Jalali Address : 103 Al Ahmed Heights, Downtown Road, opp Lignum Tower, Al-Ghurair Giga, DHA Phase II, Islamabad, Pakistan Phone Number : +92-331-505-6064 / +92-309-703-7878																										
4. Duration	20 th November to 30 th December, 2024																										
5. Amount of Money	1,009,592 JPY (6,589 USD) ※JICA Rate: 153.234 JPY/USD (November 2024) is applied.																										
6. Outline of Subcontract	Geological Survey and Reporting																										
7. Selection Method	<p>【Method】 Quality and Cost-Based Selection/ Bid Competition</p> <p>Due to the limited time available, the company that offered the lowest price among the companies that submitted schedules deemed appropriate based on the equipment and manpower to be used was selected.</p> <p>The following five companies that can carry out surveys in Pakistan were asked to submit quotations, with the clarification that the selection was based on quality and cost, and that the quality would be evaluated based on equipment/manpower/schedule.</p> <p>The specific schedule and bidding details are as follows: Announcement of quotations: October 30, 2024 Bid deadline: November 12, 2024 Notification of lowest bidder: November 15, 2024</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Subcontractor</th> <th style="width: 55%;">Evaluation of Quality</th> <th style="width: 15%;">Rating</th> <th style="width: 15%;">Quotation (USD)</th> </tr> </thead> <tbody> <tr> <td>Eguild</td> <td>The number of personnel and equipment to be used is unknown. The survey completion date significantly exceeded the consultant's expectations (40 days).</td> <td>Rating Not Possible</td> <td>5,732.26</td> </tr> <tr> <td>Birudo Engineers</td> <td>The number of personnel and equipment to be deployed is unknown.</td> <td>Rating Not Possible</td> <td>7,209.00</td> </tr> <tr> <td>Design It</td> <td>The necessary information is listed.</td> <td>Tight Schedule</td> <td>6,974.75</td> </tr> <tr> <td>Victor</td> <td>The number of personnel and equipment to be deployed is unknown.</td> <td>Rating Not Possible</td> <td>5,872.23</td> </tr> <tr> <td>Finite Engineering</td> <td>The Same as Above.</td> <td>Rating Not Possible</td> <td>17,494.00</td> </tr> </tbody> </table> <p>Based on the above results, Design It was the only company that could be evaluated for quality, and the estimated price was not high compared to other companies, so we decided to negotiate a contract with Design It. During the contract negotiations, a minor change was made to the quantity, and signed a contract for 6,589 USD, a reduction from the initial estimate.</p>			Subcontractor	Evaluation of Quality	Rating	Quotation (USD)	Eguild	The number of personnel and equipment to be used is unknown. The survey completion date significantly exceeded the consultant's expectations (40 days).	Rating Not Possible	5,732.26	Birudo Engineers	The number of personnel and equipment to be deployed is unknown.	Rating Not Possible	7,209.00	Design It	The necessary information is listed.	Tight Schedule	6,974.75	Victor	The number of personnel and equipment to be deployed is unknown.	Rating Not Possible	5,872.23	Finite Engineering	The Same as Above.	Rating Not Possible	17,494.00
Subcontractor	Evaluation of Quality	Rating	Quotation (USD)																								
Eguild	The number of personnel and equipment to be used is unknown. The survey completion date significantly exceeded the consultant's expectations (40 days).	Rating Not Possible	5,732.26																								
Birudo Engineers	The number of personnel and equipment to be deployed is unknown.	Rating Not Possible	7,209.00																								
Design It	The necessary information is listed.	Tight Schedule	6,974.75																								
Victor	The number of personnel and equipment to be deployed is unknown.	Rating Not Possible	5,872.23																								
Finite Engineering	The Same as Above.	Rating Not Possible	17,494.00																								

8. The Reason of Specific Contract or Negotiated Contract	Not Applicable
9. The Staff Name of JICA Overseas Office and Date of Confirmation	The Staff Name of JICA Overseas Office: JICA Pakistan Office, Koki Sawa Abrar Hayat Khan Date of Confirmation: 27 th November, 2024

**CONTRACT DOCUMENTS
FOR
THE GEOLOGICAL SURVEY
IN THE RIGHT BANK ALONG LOWER INDUS RIVER**

UNDER

**THE PROJECT FOR CAPACITY DEVELOPMENT FOR EFFECTIVE
RIVER DIKE MANAGEMENT RESPONSE TO THE 2022 FLOOD
IN THE ISLAMIC REPUBLIC OF PAKISTAN**

BETWEEN

**CTI ENGINEERING INTERNATIONAL CO., LTD.
(JICA SURVEY TEAM)**

**AND
DesignIt**

AGREED UPON

November 2024

TABLE OF CONTENTS

SECTION I	AGREEMENT	I-1
SECTION II	CONDITIONS OF ENGAGEMENT	II-1
Article 1	DEFINITIONS	II-1
Article 2	THE STUDY	II-1
Article 3	THE SERVICES	II-1
Article 4	ASSIGNMENT AND SUBCONTRACTS	II-2
Article 5	OBLIGATIONS OF THE CONTRACTOR	II-2
Article 6	COST OF THE SERVICES	II-2
Article 7	METHOD OF PAYMENT	II-2
Article 8	EFFECTIVE DATE OF THE AGREEMENT AND COMMENCEMENT OF THE SERVICES	II-3
Article 9	REPRESENTATIVES AND WARRANTIES	II-3
Article 10	REPRESENTATIVES AND MANNER OF EXECUTION	II-4
Article 11	FORCE MAJEURE	II-4
Article 12	INDEMNITIES	II-5
Article 13	PERFORMANCE STANDARDS	II-5
Article 14	CONFIDENTIALITY	II-5
Article 15	CONSULTANT'S USE OF CONTRACTOR'S DOCUMENTS	II-5
Article 16	OWNERSHIP OF MATERIAL AND COPYRIGHT	II-5
Article 17	INSURANCE	II-6
Article 18	TERMINATION OF THE SERVICES	II-6
Article 19	TIME SCHEDULE	II-6
Article 20	LANGUAGE AND MEASUREMENT SYSTEM	II-7
Article 21	PERMISSIONS AND APPROVALS	II-7
Article 22	APPLICABLE LAW	II-7
Article 23	PRESERVATION OF PEACE	II-7
Article 24	INCOME TAX AND OTHER TAXES AND DUTIES	II-7
Article 25	ALTERATION OF THE SERVICES	II-8
Article 26	NOTICES AND CORRESPONDENCE	II-8
Article 27	INSPECTION OF THE SERVICES	II-8
Article 28	DISPUTES	II-9

APPENDICES:

APPENDIX A: TECHNICAL SPECIFICATIONS

APPENDIX B: BILL OF QUANTITIES

APPENDIX C: IMPLEMENTATION SCHEDULE

SECTION I CONTRACT AGREEMENT

THIS AGREEMENT together with the Conditions of Engagement and all the Appendices which form an integral part hereof (hereinafter called "the Agreement") is executed in duplicate at the JICA Survey Team Office, c/o Federal Flood Commission building Attaturk Avenue, G5/1, Islamabad, on this 20th day of November 2024, by and between CTI Engineering International Co., Ltd. (hereinafter called "the Consultant") on the one part, and DesignIt. (hereinafter called "the Contractor") on the other part.

The Consultant is desirous that the Services be provided, and the Contractor agrees to provide the Services for the Consultant.

It is, therefore, hereby agreed and declared by both parties as follows:

The Consultant hereby appoints the Contractor to carry out the Services and the Contractor accepts the appointment in accordance with the conditions laid down in the Conditions of Engagement in Section II and the Appendices, which are made as integral parts hereof, namely:

Appendix A: Technical Specifications

Appendix B: Approved Bill of Quantities

Appendix C: Implementation Schedule


IN WITNESS WHEREOF, the parties have signed this Agreement at the place and on the date first above written.

FOR THE CONSULTANT:

FOR THE CONTRACTOR:



TOSHIHIRO GOTO
Team Leader, JICA Project Team
Authorized Representative
CTI Engineering International Co., Ltd


20/11/24

Awais Jalali
CEO
Authorized Representative
DesignIt

SECTION II CONDITIONS OF ENGAGEMENT

Article 1 DEFINITIONS

Unless the context otherwise requires, the following terms have the following meaning in this Agreement.

- (1) "JICA" means the Japan International Cooperation Agency, the official agency responsible for the implementation of technical cooperation of the Government of Japan, having its head office at Nibancho Center Building, Chiyoda-ku, Tokyo, Japan.
- (2) "The Study" means the Study stipulated in Article 2 herein. The "Project Team" or "JICA Survey Team" means the person or persons appointed by the firm to conduct the Study.
- (4) "The Engineer" means the person or persons appointed by the Consultant to comprehensively manage the Services and make decisions about the execution of the Services.
- (4) "The Supervisor" means the person or persons appointed by the Consultant or the Engineer to supervise the Services on the Site and/or in other places where the Contract must be carried out or is in process of being carried out.
- (5) "The Contract" means the written agreement between the Consultant and the Contractor, and includes the Contract Agreement, Conditions of Engagement, Technical Specifications, Bill of Quantities and the other documents annexed hereto or to be provided or approved by the Consultant, and any other agreements between the Consultant and the Contractor with respect to the Contract.
- (6) "The Services" means the Services and services performed or which shall be performed by the Contractor as set forth in Article 3 herein, or any part of each Services and service item as the context requires.
- (7) "The Service Schedule" and "the Implementation Schedule" shall mean the Service Schedule appended to or issued under the Contract.
- (8) "The Site" means the Service area/s along the Moria Loop Bund at Right Bank of Indus River in Larkana, as stipulated in the Technical Specifications and where the Services are to be executed.

Article 2 THE STUDY

The Study is "THE PROJECT FOR CAPACITY DEVELOPMENT FOR EFFECTIVE RIVER DIKE MANAGEMENT RESPONSE TO THE 2022 FLOOD IN THE ISLAMIC REPUBLIC OF PAKISTAN".

Article 3 THE SERVICES

The Services which shall be performed by the Contractor is the "GEOLOGICAL SURVEY" using his own staff and facilities, as well as the preparation, compilation, and submission of the final results

of the Services as stipulated herein in accordance with the instructions of the engineer(s) of the Consultant.

The detailed specifications of the Services are provided in "APPENDIX A: TECHNICAL SPECIFICATIONS" for geological survey.

Article 4 ASSIGNMENT AND SUBCONTRACTS

The Contractor shall not assign this Agreement nor sublet any portion of the Services without prior written consent of the Consultant. Should the Contractor sublet any portion of the Services to any third party after obtaining the consent of the Consultant, the Contractor will still be responsible for the acts and omissions of his subcontractor(s) and his (their) personnel. The Contractor shall neither be relieved nor released from any of his obligations and responsibilities under the Agreement by virtue alone of the authorized subcontract of the Services herein stipulated.

Article 5 OBLIGATIONS OF THE CONTRACTOR

The Contractor shall cooperate fully with the Consultant and shall always serve in the best interest of the Consultant. Furthermore, the Contractor shall be responsible for all properties damaged during the services at site. To implement the Services, the Contractor shall also be responsible for making all necessary arrangements including negotiation with the agencies concerned at his own expense. All income and other taxes, levies, impositions, deductions, charges, fees, and similar assessments whatsoever imposed, assessed, levied or collected by the Government of Pakistan, or any subdivisions thereof or any taxation authority therein, upon the Contractor and his staff shall be paid and/or borne by the Contractor.

Article 6 COST OF THE SERVICES

The Consultant and the Contractor agree that the Total Contract of the Services is s 6,589 US DOLLARS ONLY (GST INCLUDED), which shall be adjustable based on the quantity performed on each work item defined in the Bill of Quantities in accordance with the terms and conditions specified in Article 7 hereof.

Article 7 METHOD OF PAYMENT

All payments shall be in US Dollars (USD). The Consultant shall pay the Contractor in the following manner:

(1) Submission of Invoice

To claim for each payment, the Contractor shall submit an invoice that shall be ascertained against the unit prices specified in the Bill of Quantities and approved by the Consultant.

(2) First Payment

As the first payment, thirty percent (30%) of the Contract Price shall be paid to the Contractor within fifteen (15) working days after the confirmation of mobilization of the Contractor by the Consultant.

(3) Second Payment

As the second payment, forty percent (40%) of the Contract Price shall be paid to the Contractor within fifteen (15) working days after the confirmation of completion of the entire field work by the Consultant.

(4) Final Payment

As the final payment, thirty percent (30%) of the Contract Price or remaining revised Contract Price in accordance with Article 25 in this Contract shall be paid to the Contractor within fifteen (15) working days after the completion of the Services and acceptance by the Consultant.

Article 8 EFFECTIVE DATE OF THE AGREEMENT AND COMMENCEMENT OF THE SERVICES

This Agreement shall be effective on the date it is signed by both parties.

The Contractor shall commence the Services on the date this Agreement is signed by both parties.

Article 9 REPRESENTATION AND WARRANTIES

- (1) The Contractor is a corporation duly organized, validly existing and in good standing under the laws of the Islamic Republic of Pakistan, and full corporate power to conduct the business presently being conducted by it and is duly qualified to transact business with the Consultant.
- (2) The execution, delivery and performance of this Agreement by the Contractor have been duly authorized and approved by requisite corporate action of the Contractor.
- (3) The person signing this Agreement is fully authorized to represent the Contractor. This Agreement when signed, shall be binding on the Contractor.
- (4) The Contractor warrants that he will perform and complete the Services in accordance with the Required Standard of Performance.
- (5) The warranty period covers six (6) months after the complete submission of all required outputs or the issuance of the completion certificate by the company attesting to the completion of all survey/investigation works, whichever comes later. During the warranty period, if it is determined that the deliverables do not meet the Required Standard of Performance or contain any errors, the Contractor shall promptly take corrective action.
- (6) In the event that the Contractor fails to perform or complete all or any portion of the Services as warranted under Clauses (4) and (5) in this Article, the Consultant shall provide notice to the Contractor of this failure. This notice must be given to the Contractor not later than thirty (30) days after expiration of the Warranty Period for the Services. At Company's option, the Contractor shall re-perform the non-conforming Service or refund that portion of the compensation that is attributable to the non-conforming Service.

- (7) The warranties set out in this Article are in addition to any and all other warranties, whether express, implied or statutory, that may otherwise be applicable, including any implied warranty of merchantability, fitness for purpose or satisfactory quality.

Article 10 REPRESENTATIVES AND MANNER OF EXECUTION

- (1) Upon signing this Agreement, the Contractor shall assign a representative satisfactory to the Consultant. The Contractor's representative shall be responsible for handling all important matters on behalf of the Contractor.
- (2) The representative and engineers of the Consultant assigned to the Services, whose names will be given in advance to the Contractor, shall have power to control and supervise the Services.
- (3) All the services conducted under this Agreement shall be executed in accordance with the Agreement, the Scope of Services, or where not specified therein, in accordance with the instructions and orders the Consultant's representative and/or engineer(s).
- (4) In the course of the Services, when the Consultant calls the Contractor for a meeting, the Contractor's representative shall at all times and at the Contractor's own expense attend the meeting and shall report all the actual status of the Services.
- (5) The Contractor shall appoint one or more competent *site representatives* among the Contractor's experts assigned to the Work, to superintend the carrying-out of the Work on the Site. The name, training and experience of the Contractor's site representative shall be submitted to the Consultant for approval before they are appointed. The said site representative, or if more than one shall be appointed, then one such site representative shall be present on the Site during working hours, and any order or instruction which the Consultant may give to the said representative of the Contractor shall be deemed to have been given to the Contractor by the Consultant.

Article 11 FORCE MAJEURE

- (1) The term "force majeure" as employed herein shall mean natural calamities or Acts of God or the Almighty; strikes, lockouts or industrial disturbances; acts of the public enemy; wars and blockades; earthquakes, storms, lightning, floods and washouts; and civil disturbances, explosions and other similar events, which are beyond the control of either party and which by the exercise of due diligence neither party is able to overcome.
- (2) If either party is temporarily unable to meet any of its obligations under the Agreement by reason of force majeure or the law or regulation of the Islamic Republic of Pakistan, and if either party gives to the other party a written notice of the event within fourteen (14) days after its occurrence, such obligation(s) of the party as it is unable to perform by reason of the event shall be suspended for as long as the inability continues.
- (3) Neither party shall be liable to the other party for loss or damage sustained by such other party arising from any event referred to in the above Clause (1) or delays arising from such events.

Article 12 INDEMNITIES

Unless otherwise specified in this Agreement, the Contractor shall indemnify and hold the Consultant and his engineers, supervisors, officers and employees free and harmless from any and all liabilities for compensation, claims, suits, costs, or charges related to any loss as well as any personal, property injury or damage that may arise out of the performance of the Services or in connection therewith. However, in case the loss or damage is attributed to the Consultant, his engineers, supervisors, officers or employees, the scope of responsibility of the Consultant shall be decided through consultation between the Contractor and the Consultant.

Article 13 PERFORMANCE STANDARDS

The Contractor undertakes to perform the Services with the highest standards of professional and ethical competence and integrity. The Contractor shall promptly replace any employee assigned under this Agreement that the Consultant considers unsatisfactory. The Consultant shall be at liberty by notice in writing to the Contractor to object to any representative or other persons employed by the Contractor in the execution of the Services who shall, in the opinion of the Consultant, misconduct himself or herself of being incompetent or negligent or being sick and the Contractor shall remove such person from the Services and provide an acceptable replacement for such person at the Contractor's expense.

Article 14 CONFIDENTIALITY

The Contractor shall not, during the term of this Agreement and within the specified maintenance period after the Agreement's expiration, disclose any proprietary or confidential information relating to the Services, this Agreement or the Consultant's business or operations without the prior written consent of the Consultant.

Article 15 CONSULTANT'S USE OF CONTRACTOR'S DOCUMENTS

The Contractor shall be deemed (by signing the Contract) to give to the Consultant a non-terminable transferable loyalty-free license to copy, use and communicate the Contractor's Documents, including making and using modifications of them after the completion of the Services.

Article 16 OWNERSHIP OF MATERIAL AND COPYRIGHT

Any report or other materials, graphics, software or otherwise, prepared by the Contractor for the Consultant or the Consultant's engineer(s) under this Agreement shall belong to and remain the property of JICA. The Consultant and the Contractor may retain a copy each of such materials and software; however, the copyright of software developed by the Contractor including copyright of reports and other materials shall be transferred to and retained by the Consultant after the completion of the Services.

Article 17 INSURANCE

The Contractor shall, at his own expense, carry and maintain the necessary insurance coverage, in accordance with the terms and conditions necessary for the performance of the Services, and in accordance with the provisions of government laws and/or regulations of the Islamic Republic of Pakistan and the prevailing practice in the Islamic Republic of Pakistan for the whole period of the work or services, including but not limited to the following:

- (1) Workmen's Compensation Insurance for the Contractor's employees engaged in the services; and
- (2) Comprehensive Automobile Liability Insurance covering owned, non-owned and hired automotive equipment used by the Contractor for damages against itself, injury, death or property damage caused against any third party concerned with or not concerned with the services.

In spite of the aforesaid insurances the Contractor will still be fully responsible for the performance of all his obligations as specified herein and shall assume all risks associated with the Services.

Article 18 TERMINATION OF THE SERVICES

The Consultant may terminate the Services of the Contractor under this Agreement for good and sufficient causes by giving fourteen (14) days written notice to the Contractor. Upon termination of this Agreement, the Contractor shall be entitled to receive remuneration and any reasonable and justifiable installation and termination costs not otherwise recovered.

Should the Contractor's failure to comply with his obligation stipulated under Article 5 herein or with any other requirement under this Agreement result in suspension, this Agreement shall be terminated.

Should the work be stopped under an order of any court or other public authority through no fault and act of the Contractor, or if the Consultant shall fail to comply with the provisions of Article 7 herein, then the Contractor may, by giving notice of such occurrence and unless further agreement is reached, stop work, terminate the services, and recover payment from the Consultant for all fees earned up to the date of termination, all costs incurred by the Contractor for services performed, all items procured for the Services, and for all losses sustained by reason of work stoppage and termination.

Article 19 TIME SCHEDULE

With the exception of laboratory tests and report preparation, on-site activities (boring, standard penetration testing, in-situ tests, sampling, and the creation of borehole profiles) shall be completed by 30 November, 2024. The results of the laboratory tests must be submitted to the Consultant in Pdf and Excel file format by 14 December, 2024. Furthermore, all services, including laboratory tests and report preparation, must be completed by 30 December, 2024.

Notwithstanding this date, the Agreement shall remain in full force until the Consultant issues a written notice to the Contractor confirming the satisfactory completion of the Services.

In case the Contractor fails to complete the contracted Services within the specified contract time, deduction of a certain amount from the Contract Price shall be made as liquidated and ascertained damages, as follows:

A sum of money equal to zero point one percent (0.1%) of the Contract Price for each day between the Guaranteed Time for Completion of the Services and the actual date of completion shall be deducted from the remaining Contract Price. Such deduction shall be in full satisfaction of the Contractor's liability for the said failure. The Consultant may request the Contractor to employ additional labour or use additional equipment and materials, and the Contractor shall do so at his expense in case a delay in the completion of the Services is expected.

Article 20 LANGUAGE AND MEASUREMENT SYSTEM

English shall be used in all written communication between the Consultant and the Contractor with respect to this Agreement. The **METRIC SYSTEM** of measurement shall be used as much as practicable.

Article 21 PERMISSIONS AND APPROVALS

The Consultant shall obtain, for the Contractor, all necessary permissions and approvals of the Government of the Islamic Republic of Pakistan represented by the Ministry of Water Resources (MoWR) and the Federal Flood Commission (FFC), and the Government of Sindh represented by the Provincial Irrigation Department of Sindh.

The Contractor shall obtain, for the Consultant, all necessary permissions and approvals from other competent authorities that are required for the works, if necessary, and shall acquire all rights and privileges for access to and use of the work site necessary for the purpose of executing the services.

Article 22 APPLICABLE LAW

This Agreement shall be deemed as a contract made under and shall be governed solely by and construed in accordance with the laws of the Islamic Republic of Pakistan.

Article 23 PRESERVATION OF PEACE

The Contractor shall take all reasonable precautions for preventing any unlawful, riotous or disorderly conduct, which may be caused by the Contractor's employees or may occur among them and for the preservation of peace and protection of persons and properties in the work site and the area adjacent thereto.

Article 24 INCOME TAX AND OTHER TAXES AND DUTIES

Under this Agreement, the Contractor shall be liable to pay its corporation tax, income tax, duties, contributions and other taxes or charges which may be levied both on the Contractor and his staff and labourers according to the laws and regulations of the Islamic Republic of Pakistan.

Article 25 ALTERATION OF THE SERVICES

At any time during execution of the Services, the Consultant shall have the right to make any change in the work by giving a written order to the Contractor. The Contractor shall not alter any of the Services, except if ordered in writing by the Consultant. The Consultant shall have full power, during the execution of the Contract, to order the Contractor to alter, amend, omit, and/or otherwise change any of the Services, by notice in writing, and the Contractor shall carry out such variations. If Services ordered by the Consultant are decreased, this shall not constitute any ground for claim for damage or loss of anticipated profits of the Services. All extra and additional services shall be performed in accordance with the terms of the Contract and with the same materials and workmanship as employed for the Services of similar character in the Contract, as far as they are applicable thereto. In case such directions involve any increase or decrease in the Contract Price, the difference in cost to the Contract, if occurred by such variation, shall be adjusted to the Contract Price as the case may require, unless otherwise specified. The amount of such difference shall be ascertained and determined in accordance with the unit prices and rates specified in the Bill of Quantities, if the same may be applicable. If the Bill of Quantities does not contain any rate or price applicable to the extra or additional service, suitable rates or prices shall be reasonably agreed upon between the Consultant and the Contractor in writing. In the event of substantial change, the date of completion of the work may be adjusted by prior agreement between both parties.

Article 26 NOTICES AND CORRESPONDENCE

Any notice given to the Contractor shall be served by e-mail to or leaving the same at the Contractor's principal place of business with address stated herein. On the other hand, any notice given to the Consultant shall be served by fax to or leaving the same at the Consultant's address stated herein.

(1) The Consultant

CTI Engineering International Co., Ltd.

Attn.: Mr. TOSHIHIRO GOTO

Authorized Representative / Team Leader, JICA Project Team

Tachibana Annex Building, 2-25-14 Kameido, Koto-ku, Tokyo 136-0071, JAPAN (main office);

Tel. No. +81-3-3638-2585; Fax No. +81-3-3638-2560; E-mail: goto@ctii.co.jp

(2) The Contractor

DesignIt

Attn.: Awais Jalali

Authorized Representative/ CEO

103 Al Ahmed Heights, Downtown Road, opp Lignum Tower, Al-Ghurair Giga, DHA Phase II, Islamabad, Pakistan

Tel. No. +92 331 505 6064 / +92 309 703 7878

E-mail: ceo@designit.com.pk/ info@designit.com.pk

Article 27 INSPECTION OF THE SERVICES

The Consultant shall at all the times have access to the Services wherever it is in preparation or progress and the Contractor shall provide necessary transportation, equipment and facilities for such access and inspection.

Where the specifications require any services to be specially tested or approved, the Contractor shall give the Consultant timely notice of his readiness for inspection and, if the inspection is by an authority other than the Consultant, the date shall be fixed for such inspection.

Article 28 DISPUTES

In the event of any dispute arising between the parties hereto with respect to this Agreement and/or performance of the Services, the parties hereto shall endeavour to take prompt steps to amicably settle such disputes in 15 days. In case such arrangement cannot be realized, the dispute or difference shall be settled by arbitration as provided herein. All questions, disputes or differences arising out of or in relation to the interpretation of the Contract which cannot be settled by mutual accord shall be submitted to a committee for arbitration consisting of three arbitrators, one to be nominated by the Consultant, another by the Contractor and the third as chairman shall be named by the two mentioned arbitrators above, and shall be finally settled in conformity to the rules and procedures or Conciliation and Arbitration of the International Chamber of Commerce. Such arbitration shall be held at such place and time in the Pakistan as the arbitrators may decide. Any decision, opinion, direction, certificate, or valuation given by the arbitrators shall be obeyed by both parties and be final.

TERMS OF REFERENCE

FOR

**THE GEOTECHNICAL INVESTIGATION IN
IN THE RIGHT BANK ALONG LOWER INDUS RIVER**

FOR

**THE PROJECT FOR
CAPACITY DEVELOPMENT OF EFFECTIVE RIVER DIKES
MANAGEMENT
IN RESPONSE TO 2022 FLOOD**

TECHNICAL SPECIFICATIONS

1. DESCRIPTION OF THE SERVICES

These technical specifications shall apply to the geotechnical investigation (hereinafter referred to as “the Services”), conducted within the scope of the the Project for Capacity Development of Effective River Dikes Management in Response to 2022 Flood (hereinafter referred to as “the Project”).

The technical specifications mentioned hereunder are designed for the Contractor to carry out geotechnical investigation in the right bank along Lower Indus River as shown in Figure 1.

2. PURPOSE OF THE SERVICES

The geotechnical investigation aims to provide essential geological information about project sites to facilitate the design of proposed structures for the project.

3. LOCATION OF THE SERVICES

The locations of the Services are as shown in Figure 1. The Consultant shall designate detailed survey location.

4. SCOPE OF THE SERVICES

The Contractor shall carry out the following services and/or works under the supervisions of the Consultant.

4.1 Mobilization & Demobilization

(1) Site Investigation

The Contractor shall carry out ocular site investigations over all the sites before commencement of the Services to confirm the site locations and site conditions.

(2) Transportation / Mobilization

The Contractor shall submit to the Consultant, for approval, a comprehensive transportation plan for materials, equipment, and personnel. This plan should provide a detailed sequence for mobilization.

(3) Site Cleaning / Demobilization

The Contractor is responsible for maintaining cleanliness at the work site(s) both throughout the field activities and following the completion of the survey. All materials and equipment necessary for the survey should be safely and neatly demobilized.

4.2 Geotechnical investigation

4.2.1 Boring and In-situ Test

(1) Boring Locations

The rough locations of borehole are as shown in Figure 1. Before starting drilling, the Contractor shall confirm the detailed borehole locations with the Consultant. In case drilling is conducted

without any confirmation with the Consultant and the borehole locations are wrong, any cost for drilling at wrong location won't be paid.

Basically, the Consultant will not provide the coordinates of borehole locations to prevent the Contractor from being confused. Hence the Sub-consultant shall confirm the locations with the Consultant carefully.

(2) Boring Point Survey

The Boring Point Survey by GNSS shall be carried out to obtain the coordinates of the necessary position and ground elevation data of each boring point.

(3) Quantity of Core Boring

The work is summarized in the following table. The final payment will be determined based on the actual final quantities, including borehole drilling depth and the number of tests conducted.

Table 1 Boreholes to be Surveyed and Their Depths

Location	Borehole Number	Depth/Length	Remarks
Moria Loop Bund	BH 01 – BH 03	20m (Min. 10m, Max. 30m)	*1 *2
Total No. of Boreholes	3	-	*3
Total Length (Initial Estimate)	-	60 meters	

Note:
 *1: In case the results of SPT (Standard Penetration Test) have been consecutively (3 times) more than 50, drilling at the Borehole shall be terminated subject to the concurrence of the Consultant.
 *2: In case the results of SPT have not been consecutively (3 times) more than 40, drilling at the Borehole shall be continued up to 20 meters in depth subject to the concurrence of the Consultant.
 *3: Total Length of Borehole may be changed based on the subsoil conditions.

(4) Soil Investigation and In-situ Test

The following soil investigation and in-situ test shall be carried out in the borehole.

(a) Standard Penetration Test (SPT)

- Standard Penetration Test (SPT) shall be conducted in accordance with the requirements specified under ASTM D1586, (or JIS A-1219).
- SPT shall be performed for each 1 m depth of soil.
- A hammer shall be dropped freely; it shall not be dropped by means of a winch.

(b) Groundwater Level Survey

(c) Sampling

- Undisturbed Sampling shall target cohesive soil and samplings shall be conducted subject to the approval of the Consultant.
- Disturbed Sampling shall also be at every different soil stratum except for cohesive soil and samplings shall be conducted subject to the subject to the approval of the Consultant.
- Groundwater shall be conducted subject to the approval of the Consultant.

(d) Obtaining Geological Boring Log

4.2.2 Laboratory Test

(1) Tests for Soil

The following tests for sampled soil shall be carried out subject to the approval of the Consultant.

- (a) Particle Size Analysis (ASTM D422-63)
- (b) Atterberg Limits (ASTM D4318-17e1)
- (c) Dry and Bulk Density (ASTM D7263-21)
- (d) Natural Moisture Content (ASTM D2216)
- (e) Specific Gravity (ASTM D854)
- (f) Unconfined Compression (ASTM D2166)
- (g) Consolidation (ASTM D2435)
- (h) Hydraulic Conductivity (ASTM D5084)
- (i) Contents of SO₂, Cl⁻, and OMC in soil

Note) Unconfined Compression shall be conducted only for Undisturbed cohesive soil.

(2) Tests for Ground Water

The following tests for sampled ground water shall be carried out subject to the approval of the Consultant.

- (a) Contents of SO₂, Cl⁻, and TDS in ground water
- (b) PH in ground water

4.2.3 Work Procedure of Geotechnical investigation

(1) Survey of Location and Elevation for Core Drilling

Core drilling work shall be executed at the locations indicated in Figure 1. The Consultant will designate the exact locations in the site before drilling. Before and after drilling work, the Contractor shall conduct surveys of the location and ground elevation of each borehole by GNSS or the instruction of the Consultant at the Contractor's own expense. Survey expenses are deemed to have been included in relevant items of the Services in the Bill of Quantities.

(2) Drilling Depth

Drilling depth shall not be less than it specified in BILL OF QUANTITIES, unless otherwise instructed by the Consultant. The depth may be increased in accordance with the instruction by the Consultant. In this case, the depth of drilling at the borehole will be decided by the Consultant in accordance with the conditions observed through cores.

(3) Equipment

Core drilling shall be carried out by a hydraulic rotary drilling machine with a bit diameter of more than 66 mm. The core barrel attached to the column of drill rods shall be rotated and advanced, and drilling fluid shall flush and cool the bit at the end of the core barrel. Spots, directions and depths will be specified and/or directed by the Consultant of the Consultant. Bits shall be selected deliberately to meet geological conditions for the best core recovery and

Appendix A

efficiency. Diamond bits can be used for drilling hard rocks and metal bits can be used for drilling highly weathered rocks and unconsolidated deposits.

(4) Core Recovery

The work shall aim at 100 percent core recovery. Slime that comes out of the drilling hole will not be regarded as core recovery. The Consultant reserves the right to order re-drilling an entire hole at the Contractor's expense in case that core recovery (in any section) is less than 70 percent without any acceptable reason as judged by the Consultant.

Double core barrel shall be adopted to ensure the required core recovery rate.

(5) Storage

The recovered core samples shall be stored in metal (or wooden) core boxes in the order of depths where the samples were taken and submitted to the Consultant at the time required to do so. Each core box shall have five (5) grooves, each of which shall contain core samples of one (1) meter and shall, accordingly, contain core samples of five (5) meters. The core boxes shall be marked with the borehole number, and with figures to indicate the depths where the core samples were taken.

Samples of unconsolidated deposits and highly weathered rocks shall be wrapped with polyethylene film. When core is not recovered, timber blocks of square cross section shall be placed in the box. These timber blocks shall be cut to the same length as the core losses and placed in the position from which the core was lost.

(6) Measurement of Water Level

Water level in boreholes shall be measured and recorded every morning before the commencement of drilling. This measurement shall be continued for each borehole until the completion of drilling.

(7) Closure of the Borehole

Fill the borehole with an appropriate sealing material (like bentonite clay or cement grout) to close the borehole.

(8) Daily Report and Records

Daily report of drilling shall be submitted to the Consultant every day on a form approved by the Consultant.

Within ten (10) days of completion of drilling of a borehole, the Contractor shall submit a complete log of the hole on a form approved by the Consultant. The records checked by the Consultant shall be incorporated in the final report. The log shall present a continuous vertical record of the holes at the scale of 1/100, at least. The minimum recording requirements are as given below:

- (a) Borehole number and location
- (b) Sampling number and location

Appendix A

- (c) Elevation at the top of the hole
- (d) Inclination and depth of the hole
- (e) Detailed list of the equipment actually used for the work
- (f) Dates of drilling
- (g) Total core recovery
- (h) Geological descriptions of the recovered cores, including the classification of soil and rock, extent of weathering, spacing of cracks, condition of cracks (open or close, stained or fresh), etc.
- (j) N-value of Standard Penetration Test
- (k) Core recovery length, core recovery ratio for every borehole
- (l) Water level in the hole
- (m) Color photographs with digital devices

The fact that the Consultant may be present and keeping a record of the drilling shall not relieve the Contractor from the requirements for keeping an accurate log as described above.

4.3 Reporting/Drawing/Digital Data/Field Verification

4.3.1 Reporting

All the survey result shall be reported to the Consultant by documents and digital data. The survey report shall cover the following contents:

- Introduction (background and objective of the survey, etc.)
- Survey Methodology
- Report for Results of all Test, Investigation and Analysis
- Map showing the Location and Elevation of Each borehole
- Photograph of Survey Activities covering Boring Work, In-situ Test and Laboratory Test.

4.3.2 Drawings

Required details of the fair drawing shall be as follows:

- Map Size for Printout: A3
- Coordinates: Coordinates shall be shown on the map.

4.3.3 Digital Data

All data shall be compiled and prepared in digital format.

After preparing the data, compilation and graphic method shall be made in accordance with the designation by the Consultant.

4.3.4 Field Verification after the Completion

After completion of each survey work, the Contractor shall verify the output in the field through photography.

5. MATERIALS TO BE SUBMITTED

The Contractor shall submit the results of the geotechnical investigation to the Consultant via transmittal letter, which should provide a detailed description of the contents and the quantity of the deliverables. The submission should include the following:

- Two (2) sets of the original reports in English.
- Two (2) sets of CD-Rs containing digital files of all information and all the reports.

6. TIME SCHEDULE OF THE SERVICES

The Services shall commence promptly upon the signing of the Agreement between the Consultant and Contractor. The completion date will be communicated by the Consultant (It is expected by the end of December 2024). Prior to commencing the Services, the Contractor is required to submit a detailed plan and schedule in Gantt chart to the Consultant for approval. The contractor should maintain close coordination with the Consultant by providing weekly work schedules.

7. SUPERVISION OF THE SERVICES

The Consultant reserves the right to supervise all aspects of the Services and their related operations, including the approval of operational plans, work methods, and the monitoring of progress throughout the execution of the Services. The Consultant also retains the authority to accept or reject the outcomes and results of the Services.

8. SAFETY CONTROL OF THE SERVICES

The Contractor shall implement all necessary safety measures to prevent accidents, hazards, and risks that may compromise the safety of the public, including residents, visitors, and laborers, throughout the execution of the Services. The Contractor shall be responsible for all expenses related to safety control. In the event that the Consultant deems the safety control measures to be ineffective or inadequate, the Contractor shall be open to and accept the Consultant’s suggestions for improvement.

9. COMMUNICATION NETWORK

The Contractor shall establish a communication network with the Consultant for both emergency and regular cases. The Contractor shall submit the flow chart of the network to the Consultant for approval before commencing the Services. This network shall include the names of contact persons and their telephone numbers in order of priority. In the event of any safety-related incidents or other critical matters, the Contractor shall promptly report to the Consultant.

Before the mobilization to the site, the consultant and the contractor shall set up a chat group with a SNS service, the daily communication shall be conducted on the group. On this chat group, both parties must not upload any confidential information.



Note) As the location of BH-3 has been eroded, the detailed location shall be determined at the time of site investigation.

Figure 1 Area of the Geotechnical Investigation at Moria Loop Bund on Indus River

Appendix: B

BILL OF QUANTITIES

No.	Work Item	Unit	Quantity	Unit Price (US\$)	Amount (US\$)
A	Mobilization & Demobilization	LS	1	1,000	
B	Boring (SPT included) and In-situ Test and Sampling				
1	Boring (L=20m x 3 Locations) (SPT included, at open space)	m	60	56	3,360
2	Groundwater Level Survey	Set	3	5	15
3	Undisturbed Samples (Cohesive Soils: SPT N < 8)	Nos	3	22	66
4	Geological Columns	set	3	5	15
C	Laboratory Test				
1	Particle Size	sample	15	5	75
2	Atterberg Limits	sample	15	5	75
3	Dry and Bulk Density of soil samples	sample	15	5	75
4	Natural Moisture Content of soil samples	sample	15	2	30
5	Specific Gravity soil samples	sample	15	5	75
6	Unconfined Compression Test soil samples	sample	3	18	54
7	Consolidation Test	sample	3	27	81
8	Hydraulic Conductivity	sample	3	18	54
9	Chemical Analysis (SO ₂ , Cl ⁻ & OMC) on selected soil samples	sample	3	9	27
10	Chemical Analysis (SO ₂ , Cl ⁻ , pH & TDS) on ground water Samples	sample	3	9	27
D	Reporting/Drawing/Digital Data/Field Verification	L.S.	1	700	700
	SUBTOTAL AMOUNT				5,729
	TAXES (15 %)				859.35
	TOTAL AMOUNT				6,589

* Boring depth shall be adjustable based on the quantity performed.

*The final payment will be determined based on the actual final quantities, including borehole drilling depth and the number of tests conducted.

Appendix: C

SCHEDULE PROPOSED BY CONTRACTOR

Items	The maximum number of days required from the conclusion of the contract	Number of teams working on site
Completion of Boring (SPT included) and In-situ Test and Sampling	10 days	1 Team (1 Drill/1 Supervisor/ 4 Operator)
Completion of Laboratory Test	24 days	—
Submission of Reports	40 days	—

**AMENDMENT OF CONTRACT
FOR
THE GEOLOGICAL SURVEY
IN THE RIGHT BANK ALONG LOWER INDUS RIVER**

UNDER

**THE PROJECT FOR CAPACITY DEVELOPMENT FOR EFFECTIVE
RIVER DIKE MANAGEMENT RESPONSE TO THE 2022 FLOOD
IN THE ISLAMIC REPUBLIC OF PAKISTAN**

December 2024

**AGREED BETWEEN
JICA SURVEY TEAM /
CTI ENGINEERING INTERNATIONAL CO., LTD.
AND
DesignIt**

AMENDMENT OF CONTRACT

This Amendment Contract ("Amendment") is made and entered into as of 15h January 2025, by and between:

1. CTI Engineering International Co., Ltd. with its principal place of business located at Nihombashi Hamacho F Tower 11fl. 3-21-1 Nihombashi Hamacho, Chuo-ku, Tokyo 103-0007, Japan("Client"); and
2. DesignIt with its principal place of business located at 103 Al Ahmed Heights, Downtown Road, opp Lignum Tower, Al-Ghurair Giga, DHA Phase II, Islamabad, Pakistan ("Contractor").

AMENDMENT

WHEREAS, the Client and the Contractor entered into a contract dated 20th November 2024 ("Original Contract") for the provision of geological survey services ("Services");

WHEREAS, the Client and the Contractor now desire to amend the Original Contract.

NOW THEREFORE, the parties hereto hereby agree as follows:

1. "APPENDIX A: TECHNICAL SPECIFICATIONS" of the Original Contract shall be amended as follows;

<Before>

4.2.2 Laboratory Test

(1) Tests for Soil

The following tests for sampled soil shall be carried out subject to the approval of the Consultant.

- (a) Particle Size Analysis (ASTM D422-63)
- (b) Atterberg Limits (ASTM D4318-17e1)
- (c) Dry and Bulk Density (ASTM D7263-21)
- (d) Natural Moisture Content (ASTM D2216)
- (e) Specific Gravity (ASTM D854)
- (f) Unconfined Compression (ASTM D2166)
- (g) Consolidation (ASTM D2435)
- (h) Hydraulic Conductivity (ASTM D5084)
- (i) Contents of SO₂, Cl⁻, and OMC in soil

Note) Unconfined Compression shall be conducted only for Undisturbed cohesive soil.

<After>

4.2.2 Laboratory Test

(1) Tests for Soil

The following tests for sampled soil shall be carried out subject to the approval of the Consultant.

- (a) Particle Size Analysis (ASTM D422-63)

- (b) Atterberg Limits (ASTM D4318-17e1)
- (c) Dry and Bulk Density (ASTM D7263-21)
- (d) Natural Moisture Content (ASTM D2216)
- (e) Specific Gravity (ASTM D854)
- (f) Unconfined Compression (ASTM D2166)
- (g) Consolidation (ASTM D2435)
- (h) Hydraulic Conductivity (ASTM D5084)
- (i) Contents of SO₂, Cl⁻, and OMC in soil

(j) Particle Size Analysis of Fine particle (ASTM-D7928-21e1)

Note) Unconfined Compression shall be conducted only for Undisturbed cohesive soil.

2. "APPENDIX B:BILL OF QUANTITIES" of the Original Contract shall be amended as follows;

<Before>

BILL OF QUANTITIES

No.	Work Item	Unit	Quantity	Unit Price (US\$)	Amount (US\$)
A	Mobilization & Demobilization	LS	1	1,000	
B	Boring (SPT included) and In-situ Test and Sampling				
1	Boring (L=20m × 3 Locations) (SPT included, at open space)	m	60	56	3,360
2	Groundwater Level Survey	Set	3	5	15
3	Undisturbed Samples (Cohesive Soils: SPT N < 8)	Nos	3	22	66
4	Geological Columns	set	3	5	15
C	Laboratory Test				
1	Particle Size	sample	15	5	75
2	Atterberg Limits	sample	15	5	75
3	Dry and Bulk Density of soil samples	sample	15	5	75
4	Natural Moisture Content of soil samples	sample	15	2	30
5	Specific Gravity soil samples	sample	15	5	75
6	Unconfined Compression Test soil samples	sample	3	18	54
7	Consolidation Test	sample	3	27	81
8	Hydraulic Conductivity	sample	3	18	54
9	Chemical Analysis (SO ₂ , Cl ⁻ & OMC) on selected soil samples	sample	3	9	27
10	Chemical Analysis (SO ₂ , Cl ⁻ , pH & TDS) on ground water Samples	sample	3	9	27
D	Reporting/Drawing/Digital Data/Field Verification	L.S.	1	700	700
	SUBTOTAL AMOUNT				5,729
	TAXES (15 %)				859.35
	TOTAL AMOUNT				6,589

<After>

BILL OF QUANTITIES

No.	Work Item	Unit	Quantity	Unit Price (US\$)	Amount (US\$)
A	Mobilization & Demobilization	LS	1	1,000	
B	Boring (SPT included) and In-situ Test and Sampling				
1	Boring (L=20m×3 Locations) (SPT included, at open space)	m	60	56	3,360
2	Groundwater Level Survey	Set	3	5	15
3	Undisturbed Samples (Cohesive Soils: SPT N < 8)	Nos	3	22	66
4	Geological Columns	set	3	5	15
C	Laboratory Test				
1	Particle Size	sample	15	5	75
2	Atterberg Limits	sample	15	5	75
3	Dry and Bulk Density of soil samples	sample	15	5	75
4	Natural Moisture Content of soil samples	sample	15	2	30
5	Specific Gravity soil samples	sample	15	5	75
6	Unconfined Compression Test soil samples	sample	3	18	54
7	Consolidation Test	sample	3	27	81
8	Hydraulic Conductivity	sample	3	18	54
9	Chemical Analysis (SO ₂ , Cl ⁻ & OMC) on selected soil samples	sample	3	9	27
10	Chemical Analysis (SO ₂ , Cl ⁻ , pH & TDS) on ground water Samples	sample	3	9	27
11	Particle Size Analysis of Fine particle (ASTM-D7928-21e1)	sample	3	15	45
D	Reporting/Drawing/Digital Data/Field Verification	L.S.	1	700	700
	SUBTOTAL AMOUNT				5,774
	TAXES (15 %)				866.1
	TOTAL AMOUNT				6,640.1

3. "Article 6 COST OF THE SERVICE" of the Original Contract shall be amended as follows;

<Before>

The Consultant and the Contractor agree that the Total Contract of the Services is 6,589 US DOLLARS ONLY (GST INCLUDED), which shall be adjustable based on the quantity performed on each work item defined in the Bill of Quantities in accordance with the terms and conditions specified in Article 7 hereof.

<After>

The Consultant and the Contractor agree that the Total Contract of the Services is **6,640.1 US DOLLARS ONLY (GST INCLUDED)**, which shall be adjustable based on the quantity performed on each work item defined in the Bill of Quantities in accordance with the terms and conditions specified in Article 7 hereof.

4. "Article 7 METHOD OF PAYMENT" of the Original Contract shall be amended as follows;

<Before>

All payments shall be in US Dollars (USD). The Consultant shall pay the Contractor in the following manner:

(1) Submission of Invoice

To claim for each payment, the Contractor shall submit an invoice that shall be ascertained against the unit prices specified in the Bill of Quantities and approved by the Consultant.

(2) First Payment

As the first payment, thirty percent (30%) of the Contract Price shall be paid to the Contractor within fifteen (15) working days after the confirmation of mobilization of the Contractor by the Consultant.

(3) Second Payment

As the second payment, forty percent (40%) of the Contract Price shall be paid to the Contractor within fifteen (15) working days after the confirmation of completion of the entire field work by the Consultant.

(4) Final Payment

As the final payment, thirty percent (30%) of the Contract Price or remaining revised Contract Price in accordance with Article 25 in this Contract shall be paid to the Contractor within fifteen (15) working days after the completion of the Services and acceptance by the Consultant.

<After>

All payments shall be in US Dollars (USD). The Consultant shall pay the Contractor in the following manner:

(1) Submission of Invoice

To claim for each payment, the Contractor shall submit an invoice that shall be ascertained against the unit prices specified in the Bill of Quantities and approved by the Consultant.

(2) First Payment

As the first payment, thirty percent (30%) of the Contract Price **in the Original Contract, 1976.5 US DOLLARS ONLY**, shall be paid to the Contractor within fifteen (15) working days after the confirmation of mobilization of the Contractor by the Consultant.

(3) Second Payment

As the second payment, forty percent (40%) of the Contract Price **in the Original Contract, 2635.34 US DOLLARS ONLY**, shall be paid to the Contractor within fifteen (15) working days after the confirmation of completion of the entire field work by the Consultant.

(4) Final Payment

As the final payment, **the remaining revised Contract Price in accordance with Article 25 in the Original Contract, 2028.26 US DOLLARS ONLY**, shall be paid to the Contractor within fifteen (15) working days after the completion of the Services and acceptance by the Consultant.

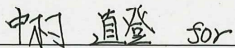
5. No Other Changes: Except as expressly amended by this Amendment, all other terms and conditions of the Original Contract shall remain in full force and effect.

IN WITNESS WHEREOF

The parties hereto have executed this Amendment as of the day and year first above written.

FOR THE CONSULTANT:

FOR THE CONTRACTOR:

 桐 道彦 Sor



TOSHIHIRO GOTO
Team Leader, JICA Project Team
Authorized Representative
CTI Engineering International Co., Ltd

Awais Jalali
CEO
Authorized Representative
DesignIt

Capacity Assesment Questionnaire Survey Results for the Project for Capacity Developemnt of Effectieve River Dikes Management (PERDM) Response to 2022 Flood						
No.	Participant Name	BPS No.	1st Survey Result January-February, 2024		2nd Survey Result February, 2025	
			Total Marks Out of 50	Percentage %	Total Marks Out of 50	Percentage %
1	Mr. Ahmed Kamal, CEA/CFEC	21	No Participation		No Participation	
2	Mr. Ather Hameed, CEA/CFEC	20	36	72%	39	78%
	Dr. M. Ejaz Tanveer, Deputy Engg Adviser Civil, FFC	19	37	74%	37	74%
4	Mr. M. Hanif Chachar, Principle river engineer (PRE), FFC	19	42	84%	41	82%
5	Mr. Zafar Iqbal, Suprintending Engineer (Flood-II), FFC	19	39	78%	41	82%
6	Mr. M. Amir Akram Rao Deputy Engg. Adviser (Power), FFC	19	27	54%	35	70%
7	Mr. Hussain Shigri., Senior Engineer (Flood), FFC	18	37	74%	40	80%
8	Mrs. Wafa Arshad, Deputy Engg Adviser (Power), FFC	17	23	46%	No Participation	
9	Mr. M. Mazhar Iqbal Asist.Engineer, Dam Safety Council (DSC)	17	24	48%	39	78%
10	MR. Muhammad Amin Assistant Engineer (Floods), FFC	17	37	74%	No Participation	
11	Mr. Sibite Hassan Assistant Engineer (Floods), FFC	17	19	38%	25	50%
12	Mr. Yawar Rasheed, Assistant Engineer (Floods), FFC	17	40	80%	35	70%
13	Mr. Muhammad Basit, Subordinate Engineer, FFC	16	38	76%	40	80%
14	Mr. Rashid Zawar Subordinate Engineer (Civil), FFC	16	17	34%	No Participation	
15	Mr. Adnan Haider, Subordinate Engineer, FFC	12	35	70%	34	68%
16	Mr. Muhammad Ibrahim Head Draftsman, FFC	14	35	70%	41	82%
17	Mr. Muhammad Ali, Draftsman, FFC	12	29	58%	No Participation	
18	Mr. Muhammad Asim, Draftsman FFC	11	32	64%	No Participation	
19	Mr. Sultan Mahmood, Chief Engr., Drainage and Floods, PID, Lahore	20	41	82%	42	84%
20	Mr. Sajid Ali Bhutto, Chief Engineer, Barrage Modernization Unit, PID Sindh	20	36	72%	40	80%
21	Mr. Jamal Ud Din, Special Secretary, PID Sindh	20	39	78%	No Participation	
22	Assistant Executive Engineer, Female, PID Sindh, Karachi	17	36	72%	36	72%
23	Assistant Executive Engineer, PID Sindh, Karachi	17	31	62%	31	62%
24	Mr. Qazi Tallat Mahmood Chief Engr. Dam Safety Council (DSC), FFC	20	No Participation		No Participation	
25	Mr. Mehar Ali Shah Additional Secretary, MoWR	20	No Participation		36	72%
26	Syed Ayaz Haider Director Monitoring (MoWR)	19	No Participation		38	76%
27	Mr. Shakeel Ahmed Deputy Director, PSDP (MoWR)	18	No Participation		36	37%
28	Mr. Rashid Khan Chief Engineer, Faisalabad, PID, Punjab	20	No Participation		36	72%

**Interactively Interview Sheet for the Capacity Building
through the Project For Capacity Development of Effective River
Dikes Management Response to 2022 Flood**

Summary:

The "Capacity Development for Effective River Dikes Management Response to 2022 Flood Project (the Project)" is dedicated to bolstering the capabilities of the Federal Flood Commission (FFC) and Provincial Irrigation Departments (PIDs) engaged in the oversight of Indus River Dikes/Bunds. By means of targeted training sessions, workshops, and initiatives for knowledge dissemination, the Project endeavors to cultivate proficiency in the construction and maintenance of river dikes. One of the overarching objectives is to improve interagency management and coordination on the dike management between FFC and PIDs, thereby contributing to a comprehensive approach to reduce flood risks in flood-prone areas along the Indus River

To evaluate the impact of capacity-building initiatives for counterpart members throughout the project, interviews will be conducted at the commencement and conclusion of the project.

Questionnaire/ Survey

Department:

Position:

Gender: Man Female

Grade:

Service Age:

City (Place of Office):

No. 20

Q.1) How is your level of understanding on the importance of the river dikes management in flood protection sector?

Poor

Fair

Average

Good

Excellent

Please describe your understandings coping with Q.1:

Q.2) Evaluate your level of knowledge about the construction and river dikes management in Pakistan.

Poor

Fair

Average

Good

Excellent

Please describe what you consider important in dikes construction and management.

No. 20

Q.3) How is the your knowledge level on the necessary skills for dikes inspection?

Poor

Fair

Average

Good

Excellent

Please explain the most important skills and knowledge areas required for the inspections on the Indus River Dike:

Q.4) According to your experience, the awareness and preparedness level in river dikes management currently is at a satisfactory level within FFC, PIDs and other related organizations?

Poor

Fair

Average

Good

Excellent

Please describe your opinions for challenges and subjects to be solved/ attained:

No. 20

Q.5) Are there significant challenges or gaps in the capacity of flood management stakeholders to respond to river dike-related emergencies i.e. leakage, seepage, scouring of riverbed, high flood water level etc.?

Please share your knowledge coping with Q.5:

Strongly Disagree

Disagree

Neither agree nor disagree

Agree

Strongly Agree

Do you have enough knowledge in this matter? Please share coping with Q.5 -B:

Poor

Fair

Average

Good

Excellent

Q.6) Are you aware of the innovative technologies or best practices to be applied for proper river dikes management for Pakistan?"

Strongly Disagree

Disagree

Neither agree nor disagree

Agree

Strongly Agree

Please describe your ideas to be applied in Pakistan:

No. 20

Q.7) Do you understand how the climate change impact should be involved onto the dike management of Indus River?

Poor Fair Average Good Excellent

Please explain the process or method on the involvement:

Q.8) During the flood emergency conditions, PIDs executed the forced breach along the flood protection dikes at several places to avoid heavy losses. Do you support such actions for effective river dikes management?

Describe your opinions and/or renovative ideas if you have:

Strongly Disagree Disagree Neither agree nor disagree Agree Strongly Agree

Do you have enough knowledge in this matter? Please share coping with Q.8.B

Poor Fair Average Good Excellent

No. 20

Q.9) In your opinion 6 feet free board of the flood protection dikes against the 2010 maximum flood level is sufficient, to pass safely the super flood similar or more than the 2010 along the Indus River?

Describe your ideas:

Strongly
Disagree

Disagree

Neither agree
nor disagree

Agree

Strongly Agree

Do you have enough knowledge in this matter? Please share coping with Q.9.B

Poor

Fair

Average

Good

Excellent

Q.10) What kinds of technical/management guidelines/plans are needed for the proper dikes management for the Indus River dikes?

Gives your opinions and ideas:

Do you have enough knowledge in this matter? Please share coping with Q.10.B

Poor

Fair

Average

Good

Excellent