GOVERNMENT OF KHYBER PAKHTUNKHWA
IRRIGATION DEPARTMENT

BID SOLICITATION DOCUMENTS
(FOR SOLARIZATION)
(SINGLE STAGE SINGLE ENVELOP)

FOR

Name of Scheme: -

1. **Provision Of Irrigation / Augmentation Tube wells & Lift Irrigation Scheme at Required Places in Khyber Pakhtunkhwa. ADP No. 2052/170597 Dg: 2023-24.**
2. **Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube wells in Khyber Pakhtunkhwa. ADP No. 2104/210455 Dg:2023-24.**
3. **Rehabilitation / Improvement Canals & Other Irrigation Infrastructure in Khyber Pakhtunkhwa. ADP No 2112/210665 Dg: 2023-24.**

NAME OF CONTRACTOR: _____

TUBE WELLS IRRIGATION DIVISION PESHAWAR.

OFFICE OF THE EXECUTIVE ENGINEER
TUBEWELLS IRRIGATION DIVISION PESHAWAR.
Phone No. 091-9222731 Email:tidpeshawar001@gmail.com
Twitter: Tubwells Irrigation Divn Peshawar Facebook: Tubewells Irrigation Peshawar

No. 884 /5-M(i), Dated Peshawar the 08 /08/2023

To,

The Director,
Information Department,
Govt: of Khyber Pakhtunkhwa,
Peshawar.

Subject: **NOTICE FOR INVITING E-BIDDING.**
(SINGLE STAGE SINGLE ENVELOP PROCEDURE)

Enclosed find herewith 07 No Notice Inviting E-Bidding Tender for publication in at least one leading English and one leading Urdu daily newspaper with nationwide circulation as per clause 19 of the KPPRA rules 2014, please.

The bill of cost may be sent in duplicate for early payment please.

Encl:-As above.

EXECUTIVE ENGINEER

Copy along with its enclosure is forwarded to the:-

1. Director Planning and Monitoring Cell Government of Khyber Pakhtunkhwa Irrigation Department Peshawar for information.
2. Assistant Director (Web), Office of the Secretary Irrigation Peshawar with request to upload the Notice Inviting Tender on the stated web site www.irrigation.gkp.pk.please.
3. Managing Director Khyber Pakhtunkhwa public procurement Regulation Authority Peshawar KPPRA for uploading the same at your web site please.
4. Sub Divisional Officers Tubewells Irrigation Sub Division Peshawar / Pabbi for information please. They are requested to submit B.O.Qs of the attached work immediately please.
5. D.A.O/ H.C/ H.D (Local) for information.
6. Contract Agreement File.

EXECUTIVE ENGINEER

NOTICE FOR INVITING E-BIDDING
SINGLE STAGE SINGLE ENVELOP PROCEDURE

Tubewells Irrigation Division Peshawar Irrigation Procurement Department, Government of Khyber Pakhtunkhwa, invites electronic Bids from the eligible firms / contractors in accordance with KPPRA procurement rules 2014 on single stage single envelop procedure for the following works: -

S#	Name of Work / Sub Works	E/Cost In Rs	2% Earnest Money in Rs	PEC Relevant Code
PROVISION OF IRRIGATION / AUGMENTATION TUBEWELLS & LIFT IRRIGATION SCHEME AT REQUIRED PLACES IN KHYBER PAKHTUNKHWA ADP No. 2052/170597 dg: 2023-24.				
1.	Installation of Solar System for Irrigation tubewell No-2 shaidu in District Nowshera.	3200000/-	64000/-	CE-04 EE-11
2.	Installation of Solar System for Irrigation tubewell No-3 shaidu in District Nowshera.	3200000/-	64000/-	CE-04 EE-11
3.	Installation of Solar System for Irrigation tubewell No-4 shaidu in District Nowshera.	3200000/-	64000/-	CE-04 EE-11
4.	Construction of Solar Irrigation Tubewell at Village Saleh Khana in District Nowshera.	5140000/-	102800/-	CE-04 EE-11
CONSTRUCTION OF FLOOD PROTECTION WORKS, IRRIGATION CHANNELS AND PONDS AND INSTALLATION OF SOLAR IRRIGATION TUBEWELLS IN KHYBER PAKHTUNKHWA ADP NO. 2104/210455 DG: 2023-24.				
5.	Installation of Solar Bassed Irrigation Tubewells at Zangi Khel Naakaband C/O Zari Baz Khan in District Peshawar.	3700234/-	74500/-	CE-04 EE-11
6.	Installation of Solar based Irrigation Tubewell at Telaband C/O Abdullah Khan in District Peshawar.	3700234/-	74500/-	CE-04 EE-11
7.	Installation of Solar based Irrigation Tubewell at Koi Khel C/O Mohsin Khan in District Peshawar.	3700234/-	74500/-	CE-04 EE-11
8.	Installation of Solar based Irrigation Tubewell C/O Safdar Khan in District Peshawar.	3700234/-	74500/-	CE-04 EE-11
9.	Installation of Solar based Irrigation Tubewell at sherkera C/O Rehman Said in District Peshawar.	3700234/-	74500/-	CE-04 EE-11
10.	Installation of Solar based Irrigation Tubewell C/O Iqraz Ali in District Peshawar.	3700234/-	74500/-	CE-04 EE-11
REHABILITATION / IMPROVEMENT CANALS & OTHER IRRIGATION INFRASTRUCTURE IN KHYBER PAKHTUNKHWA ADP NO 2112/210665 DG: 2023-24.				
11.	Solarization of Irrigation Tubewell TKM-03 in District Peshawar	3880650/-	77617/-	CE-04 EE-11
12.	Solarization of Irrigation Tubewell SKA-02 in District Peshawar	3075938/-	61518/-	CE-04 EE-11
13.	Solarization of Irrigation Tubewell SKA-07 in District Peshawar	3075938/-	61518/-	CE-04 EE-11
14.	Solarization of Irrigation Tubewell SKA-09 in District Peshawar	3075938/-	61518/-	CE-04 EE-11
15.	Solarization of Irrigation Tubewell NWB-01 in District Peshawar	3880650/-	77613/-	CE-04 EE-11

TERMS AND CONDITIONS

1. Bid Solicitation Documents containing all the terms and conditions and other relevant instructions for works can be downloaded from the department and or KPPRA websites (www.irrigation.gkp.pk) / (www.kppra.gov.pk). For each package separate bid solicitation documents are to be submitted by the interested bidders.
2. Electronic bidding shall be done on "above / below system" on BOQ / Engineer's estimate.
3. All bidders are required to have registration with Khyber Pakhtunkhwa Revenue Authority.
4. The bidder shall submit 02% bid security, of the estimated cost as mentioned above, in the shape of deposit at call (Original) along with their bid before closing date and time.
5. Notifications issued by KPPRA pertaining to procurement process issued from time to time shall be applicable and notification no S.RO (14)/Vol: 1-24/2021-22, dated 10-05-2022/6058-71.
6. If the evaluated electronic bid costs of two or more bidders are equal, then the successful bidder will be declared through draw / toss.
7. Pre-bid meeting will be held 23/08/2023 at 11:00 AM in the office of the Executive Engineer Tubewells Irrigation Division Peshawar.
8. The Last date & time for Submission of the Bid along with relevant documents is 31/08/2023 up to 12:00PM which will be opened on the same day at 12:30 PM in the office of the undersigned in presence of Contractor and their representatives who wishes to attend.
9. Bid security of 1st, 2nd and 3rd responsive lowest bidders will be retained by the employer till the approval of bids by the competent Authority.
10. All Government Notifications/ Rules/Taxes updated from time to time shall be applicable.
11. Any further information regarding the above tender can be obtained from office of the undersigned on any working day prior to bid opening date.
12. The bidder shall submit their bids through leading courier service on or before the deadline along with required document as per NIT with the condition that in case of failure of delivery of the said envelope containing the bids etc shall rest on the bidders / company who has used the relevant courier service. No liability and responsibility shall rest on the department for any delayed delivery and any other pretext leading towards late submission shall be accepted.

EXECUTIVE ENGINEER

OFFICE OF THE EXECUTIVE ENGINEER
TUBEWELLS IRRIGATION DIVISION PESHAWAR.
Phone No. 091-9222731 Email:tidpeshawar001@gmail.com
Twitter: Tubwells Irrigation Divn Peshawar Facebook: Tubewells Irrigation Peshawar

No. 931 /5-M(i), Dated Peshawar the 15 /08/2023

To,

The Director,
Information Department,
Govt: of Khyber Pakhtunkhwa,
Peshawar.

Subject: **CORRIGENDUM / ADDENDUM**

Enclosed find herewith 07 No's copies of the Corrigendum / Addendum for publication in at least one leading English and one leading Urdu daily newspaper with nationwide circulation as per clause 19 of the KPPRA rules 2014, please.

The bill of cost may be sent in duplicate for early payment please.

Encl:-As above.

Executive Engineer
Tubewells Irr: Division,
Peshawar.

Copy along with its enclosure is forwarded to the:-

1. Director Planning and Monitoring Cell Government of Khyber Pakhtunkhwa Irrigation Department Peshawar for information.
2. Assistant Director (Web), Office of the Secretary Irrigation Peshawar with request to upload the same on the stated web site www.irrigation.gkp.pk.please.
3. Managing Director Khyber Pakhtunkhwa public procurement Regulation Authority Peshawar KPPRA for uploading the same at your web site please.
4. Sub Divisional Officers Tubewells Irrigation Sub Division Peshawar / Pabbi for information please.
5. D.A.O/ H.C/ H.D (Local) for information.
6. Contract Agreement File.

Executive Engineer
Tubewells Irr: Division,
Peshawar.

OFFICE OF THE EXECUTIVE ENGINEER
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Phone No. 091-9222731 Email:tidpeshawar001@gmail.com
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CORRIGENDUM / ADDENDUM

The work appearing at serial No. 04 erroneously advertised under ADP No. 2052/170597 dg: 2023-24 appeared in the "Daily Ajj" Newspaper vide Director Information advertised No. INF(P) 1878/2023, dated 11-08-2023 which is hereby corrected that the said work is the part of Name of Work. "Construction of Flood Protection works Irrigation Channel & Ponds and Installation of Solar Irrigation Tubewells in Khyber Pakhtunkhwa ADP No. 2104/210455 dg: 2023-24". Therefore the work appeared at serial No. 04 being part of the ADP No. 2104/210455 dg: 2023-24 and will be executed under the same.

Executive Engineer
Tubewells Irr: Division,
Peshawar.

BASED ON

STANDARD FORM OF BIDDING DOCUMENTS

FOR

PROCUREMENT OF WORKS

(For Smaller Contracts)

Under Rs.45 Million

Notified vide Notification No.KPPRA/M&E/SBDs/1-1/2015
Dated Peshawar the May 03, 2016

KHYBER PAKHTUNKHWA PUBLIC PROCUREMENT REGULATORY AUTHORITY (KPPRA)

SUMMARY OF CONTENTS

Subject

I. INVITATION FOR BIDS

II. INSTRUCTIONS TO BIDDERS & BIDDING DATA

III. FORM OF BID & SCHEDULES TO BID

IV. CONDITIONS OF CONTRACT & CONTRACT DATA

V. STANDARD FORMS

VI. SPECIFICATIONS

INVITATION
FOR
BIDS

KPPRA NOTOFICATION
(Updated from Time to Time)

GOVERNMENT OF KHYBER PAKHTUNKHWA,
KHYBER PAKHTUNKHWA
PUBLIC PROCUREMENT REGULATORY AUTHORITY

Peshawar, the May 10, 2022 / 6058-71

NOTIFICATION

S.R.O. (14)/Vol: 1-24/2021-22: In exercise of the powers conferred under Section 35-A of the Khyber Pakhtunkhwa Public Procurement Regulatory Authority Act, 2012 (Khyber Pakhtunkhwa Act No. XI of 2012) the Authority has been pleased to issue the following regulation, namely: -

1. **Short title and commencement.-** (i) This regulation may be called the Khyber Pakhtunkhwa Public Procurement Regulation No. XIV 2022.

(ii) This shall come into force at once.

2. **Matters pertaining to Additional Security in case of abnormally low bids.-** This regulation relates to the matters pertaining to Additional Security submitted by the bidders in procurement of works.

i. The contractors quoting their bids up to a limit of 10% below Engineer estimate shall submit bid security @ 2% only of Engineer Estimate.

ii. The contractors quoting their bids more than 10% below upto 20% below on Engineers' Estimate shall submit along with their bids 8% Additional Security of Engineer's Estimated cost in addition to 2% bid security. If the bid is not accompanied with the required amount of additional security then it will be considered as non-responsive and the 2% bid security shall be forfeited in favour of Government and the second lowest bidder and so on will be considered accordingly.

iii. **[Similarly, a contractor quoting bid more than 20% below shall submit with his bid an additional security on Engineer's Estimated cost equal to the differential amount of submitted bid and Engineers' Estimate along with detailed rate analysis]**[1]. In case of more than 20% below bids, if the bid is not accompanied by the detailed rate analysis and / or required amount of additional security, then the said bid shall be considered as non-responsive. All the securities submitted along with such non-responsive bid shall be forfeited in favour of Government and the 2nd lowest bidder and so on will be considered accordingly.

iv. In case detailed rate analysis submitted with the bids is, in view of the Procuring Entity, not convincing, the Head of the Procuring Entity may declare such bid as non-responsive without any forfeiture of bid securities and record reasons thereof.

v. The procuring entity may offer the contract to next lowest bidder after due diligence in the context of financial difference between such two bids or may advertise procurement opportunity afresh.

[1] Differential amount; If a contractor quote, e.g. 25% below engineer estimate bid then he has to deposit along with his bid 2% bid security and 25% additional security of engineer estimate.

vi. After commencements of work by the successful bidder, the procuring entity may replace the Additional Security with a bank guarantee of the same amount from the scheduled bank; if the already deposited security is not in the form of bank guarantee.

vii. The Additional Security shall be released to the contractor in four installments i.e. 1st installment of 25% to be released upon completion of 25% of the project, 2nd installment of 25% to be released upon completion of 50% of the project, 3rd installment of 25% to be released upon completion of 75% of the project and the 4th installment of 25% to be released after 100% completion of the project.

viii. All previous orders, instructions and regulations issued regarding additional security shall stand superseded.

-SD-
Managing Director
KPPRA

ENDST: No. As above: **Peshawar, the May 10, 2022**

Copy forwarded to:-

1. The Additional Chief Secretary (P&D) Department, Govt. of Khyber Pakhtunkhwa.
2. The Administrative Secretaries (C&W, Irrigation, Public Health Engineering and Local Government, Elections & Rural Development Department) Khyber Pakhtunkhwa with request to circulate the same to their downstream formations for compliance.
3. The Principal Secretary to Governor, Khyber Pakhtunkhwa.
4. The Principal Secretary to Chief Minister, Khyber Pakhtunkhwa.
5. The Inspector General of Police, Khyber Pakhtunkhwa.
6. The Secretary Provincial Assembly, Khyber Pakhtunkhwa.
7. The Accountant General, Khyber Pakhtunkhwa.
8. The Registrar, Peshawar High Court, Peshawar.
9. All Commissioners and Deputy Commissioners in Khyber Pakhtunkhwa.
10. PSO to Chief Secretary, Govt. of Khyber Pakhtunkhwa.
11. All Heads of Autonomous/Semi-Autonomous Bodies in Khyber Pakhtunkhwa.
12. Director, Treasuries & Accounts with request to circulate the same to all DAOs & Treasuries Officers in Khyber Pakhtunkhwa.
13. The Section Officer (Admn), Finance Department, Govt. of Khyber Pakhtunkhwa with respect to his office letter No. SO(A)/FD/1-40/2022, dated 22.04.2022.
14. Manager, Stationery and Printing Press Khyber Pakhtunkhwa, for printing in the official gazette.

SANA ULLAH
Assistant Director (M&E), KPPRA

INSTRUCTIONS
TO BIDDERS
&
BIDDING DATA

INSTRUCTIONS TO BIDDERS

Clause No.	*Description*	*Page No.*
	A. GENERAL	
IB.1	Scope of Bid & Source of Funds	
IB.2	Eligible Bidders	
IB.3	Cost of Bidding	
	B. BIDDING DOCUMENTS	
IB.4	Contents of Bidding Documents	
IB.5	Clarification of Bidding Documents	
IB.6	Amendment of Bidding Documents	
	C. PREPARATION OF BID	
IB.7	Language of Bid	
IB.8	Documents Comprising the Bid	
IB.9	Sufficiency of Bid	
IB.10	Bid Prices, Currency of Bid & Payment	
IB.11	Documents Establishing Bidder's Eligibility and Qualifications	
IB.12	Documents Establishing Works Conformity to Bidding Documents	
IB.13	Bidding Security	
IB.14	Validity of Bids, Format, Signing and Submission of Bids	
	D. SUBMISSION OF BID	
IB.15	Deadline for Submission, Modification & Withdrawal of Bids	
	E. BID OPENING AND EVALUATION	
IB.16	Bid Opening, Clarification and Evaluation	
IB.17	Process to be Confidential	
	F. AWARD OF CONTRACT	
IB.18	Qualification	
IB.19	Award Criteria & Procuring Entity's Right	
IB.20	Notification of Award & Signing of Contract Agreement	
IB.21	Performance Security	
IB.22	Integrity Pact	

INSTRUCTIONS TO BIDDERS

A. GENERAL

IB.1 SCOPE OF BID & SOURCE OF FUNDS

1.1 SCOPE OF BID

As per NIT

1.2 SOURCE OF FUNDS

The Procuring Entity intends to execute the works from Provincial fund/ADP as tabulated in the title page.

IB.2 ELIGIBLE BIDDERS

2.1 Bidding is open to all firms and persons meeting the following requirements:

a. Duly licensed by the Pakistan Engineering Council (PEC) in the appropriate category for value of Works i.e Specialization code (mentioned as per NIT).

b. Duly enlisted with the Provincial Govt. (Works Deptt:).

c. Registration with Federal Board of Revenue / NTN Registration / Income Tax Department with online active status.

d. Registration with KPRA (**valid active)**

e. For each work Separate Bid Solicitation Documents is to be submitted by interested bidders.

f. The bid will be received thought courier as per NIT time, date and venue. Further Bids submitted through telegraph, telex, fax or e-mail shall not be considered.

g. The bidder shall provide work completion certificate for the work either completed or ongoing equivalent to 10 million, solar or electric pumping machinery etc. for tube wells, whom applying for.

h. Valid System Design must be submitted otherwise applicant will not be Eligible for further Evaluation.
(Note: Over system design not valid)

i. Performance curves at STC for motor and pumping machinery should be provided along with original catalog for each work separately.

j. Warranty period of the following items should be provided on judicial stamp papers.

- **a.** Solar panel etc will be 20 years and Defect liability period of Electrical / Mechanical works will be 2 years.
- **b.** Inverter should have at least two (02) years product & performance warranty.
- **c.** Two (02) years comprehensive free replacement, repair & maintenance warranty (Free of cost) should be provided for all the components of solar system.

IB.3 COST OF BIDDING

3.1 The bidder shall bear all costs including bid solicitation documents fee (nominal so as to cover printing/reproduction and mailing costs) and other costs associated with the preparation and submission of its bid including the submitted Bid Securities and Additional Security (If applicable) and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

IB.4 CONTENTS OF BIDDING DOCUMENTS

4.1 In addition to Invitation for Bids, the Bidding Documents are those stated below, and should be read in conjunction with any Addendum issued in accordance with Sub-Clause IB.6.1.

1. Instructions to Bidders & Bidding Data

2. Form of Bid & Schedules to Bid Schedules to Bid comprise the following:
   - i. Schedule A: Schedule of Prices
   - ii. Schedule B: Specific Works Data
   - iii. Schedule C: Works to be Performed by Subcontractors
   - iv. Schedule D: Proposed Program of Works
   - v. Schedule E: Method of Performing Works
   - vi. Schedule F: Integrity Pact

3. Conditions of Contract & Contract Data
4. Standard Forms:
   - i. Form of Bid Security
   - ii. Form of Performance Security. (As per KPPRA Rules)
   - iii. Form of Bank Guarantee for Advance Payment. (N.A)

5. Specifications (As per SBD/ NIT)

6. Drawings, if any (As per SBD/ NIT)

IB.5 CLARIFICATION OF BIDDING DOCUMENTS

5.1 A prospective bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Engineer/Procuring Entity at the Procuring Entity's/Engineer's address indicated in the Bidding Data.

5.2 The Engineer/Procuring Entity will respond to any request for clarification which it receives earlier than seven (7) days prior to the deadline for the submission of Bids. Copies of the Engineer/Procuring Entity's response will be forwarded to all prospective bidders, at least five (5) days prior to dead line for submission of Bids, who have received the Bidding Documents including a description of the enquiry but without identifying its source.

IB.6 AMENDMENT OF BIDDING DOCUMENTS

6.1 At any time prior to the deadline for submission of Bids, the Procuring Entity may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.

6.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 6.1 hereof, and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Procuring Entity.

6.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Entity may at its discretion extend the deadline for submission of Bids.

C. PREPARATION OF BID

IB.7 LANGUAGE OF BID

7.1 The bid prepared by the bidder and all correspondence and documents relating to the Bid, exchanged by the bidder and the Procuring Entity shall be written in the English language, provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

IB.8 DOCUMENTS COMPRISING THE BID

8.1 The bid prepared by the bidder may comprise the following components:

a. Covering Letter
b. Form of Bid duly filled, signed and sealed, in accordance with Sub-Clause IB.14.3 (financial bid shall be submitted through E-bidding System of Irrigation Department).
c. Schedules (A to F) to Bid duly filled and initialed, in accordance with the instructions contained therein & in accordance with Sub-Clause IB14.3. (As per BSD/NIT)
d. Bid Security furnished in accordance with Clause IB.13 as well as bid solicitation documents fee as per Clause IB 3.1. (As per BSD/NIT)
e. Power of Attorney in accordance with Sub-Clause IB 14.5. (Where applicable)
f. Documentary evidence in accordance with Clause IB.11. (Where applicable)
g. Documentary evidence in accordance with Clause IB.12. (Where applicable)

IB.9 SUFFICIENCY OF BID

9.1 Each bidder shall satisfy himself before bidding as to the correctness and sufficiency of his Bid and of the rates and prices entered in the Schedule of Prices, which rates and prices shall except in so far as it is otherwise expressly provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper completion of the Works.

9.2 The bidder is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the bid and entering into a Contract for execution of the Works.

IB.10 BID PRICES, CURRENCY OF BID & PAYMENT

10.1 The bidder shall fill up the Schedule of Prices (Schedule A to Bid) indicating the premiums/unit rates and prices of the Works to be performed under the Contract. Unit rate offered for an item shall be considered upto two significant decimal places (if applicable) for evaluation purposes by the Procuring Entity. Prices in the Schedule of Prices shall be entered keeping in view the instructions contained in the Preamble to Schedule of Prices.

10.2 Even if stipulated in the Conditions of Contract, prices/premiums quoted by the bidder shall remain fixed during the bidder's performance of the Contract and not subject to variation on any account.

10.3 The unit rates and prices in the Schedule of Prices shall be quoted by the bidder in the currency/premium as stipulated in Bidding Data.

IB.11 DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATIONS

11.1 Pursuant to Clause IB.8, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

11.2 Bidder/Manufacturer must possess and provide evidence of its capability and the experience as stipulated in Bidding Data and the Qualification Criteria stipulated in the Bidding Documents.

IB.12 DOCUMENTS ESTABLISHING WORKS CONFORMITY TO BIDDING DOCUMENTS

12.1 The documentary evidence of the Works' conformity to the Bidding Documents may be in the form of literature, drawings and data and the bidder shall furnish documentation as set out in Bidding Data.

12.2 The bidder shall note that standards for workmanship, material and equipment and references to brand names or catalogue numbers if any, designated by the Procuring Entity in the Technical Provisions are intended to be descriptive only and not restrictive.

IB.13 BIDDING SECURITY

13.1 Each bidder shall furnish, as part of his bid, at the option of the bidder, a Bid Security in the amount stipulated in NIT in Pak. Rupees in the form of Deposit at Call [Deleted][1] in favour of the Procuring Entity. [The bid security shall be submitted from the account of the firm/bidder/contractor who submits the bid]2 (KPPRA Notification No. S.R.O. (14)/Vol: 1-24/2021-22, Dated Peshawar, the 10th May 2022 /6058-71) shall be applicable.

13.2 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Procuring Entity as non-responsive. (KPPRA rules 2014 as amended up to dated)

13.3 The bid securities of unsuccessful bidders will be returned as promptly as possible and top three retained till seven (7) days after award of contract to the successful bidder or on the expiry of validity of Bid Security whichever is earlier. (As per BSD/NIT)

13.4 ["The bid security of successful bidder be retained with the Procuring Entity till completion of the defect liability period and the amount of guarantee will be reduced by an equivalent amount".][3]

13.5 The Bid Security may be forfeited:

a. if a bidder withdraws his bid during the period of bid validity; or
b. if a bidder does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) hereof; or
c. in the case of a successful bidder, if he fails to:
   i. furnish the required Performance Security in accordance with Clause IB.21, or
   ii. sign the Contract Agreement, in accordance with Sub-Clauses IB.20.2 & 20.3.
   iii. Submit additional security as per KPPRA Notification No. S.R.O. (14)/Vol: 1-24/2021-22, Dated Peshawar, the 10th May 2022 /6058-71

IB.14 VALIDITY OF BIDS, FORMAT, SIGNING AND SUBMISSION OF BIDs

14.1 Bids shall remain valid for the period stipulated in the Bidding Data after the date of bid opening.

14.2 All Schedules to Bid are to be properly completed and signed.

14.3 No alteration is to be made in the Form of Bid except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the bid may be rejected.

14.4 Each bidder shall prepare Original and number of copies specified in the Bidding Data of the documents comprising the bid as described in Clause IB.8 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the

1 Inserted by KPPRA Notification No. KPPRA/M&E/Estt:/1-12/2017-18 dated April 05, 2018.
2 Substituted by KPPRA Notification No. KPPRA/M&E/Estt:/1-4/2016 dated May 24, 2016.

original shall prevail. (As original will be suffice)

14.5 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign (in the case of copies, Photostats are also acceptable). This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the bidder to act for and on behalf of the bidder. All pages of the bid shall be initialed and official seal be affixed by the person or persons signing the bid.

14.6 The Bid shall be delivered in person, through courier service or sent by registered mail, or as specifically instructed by the Procuring Entity otherwise, at the address to Procuring Entity as given in Bidding Data. (As per NIT)

D. SUBMISSION OF BID

IB.15 DEADLINE FOR SUBMISSION, MODIFICATION & WITHDRAWAL OF BIDs

15.1 Bids must be received by the Procuring Entity at the address/provided in Bidding Data not later than the time and date stipulated therein & NIT. In the event of the specified date for the submission of bids declared a holiday for the Employer, the Bids will be received up to the appointed time on the next working day.

15.2 The bid will be received thought courier as per NIT time, date and venue. Further Bids submitted through telegraph, telex, fax or e-mail shall not be considered.

15.3 Any bid received by the Procuring Entity after the deadline for submission prescribed in Bidding Data will be returned unopened to such bidder.

15.4 Any bidder may modify or withdraw his bid after bid submission provided that the modification or written notice of withdrawal is received by the Procuring Entity prior to the deadline for submission of bids.

15.5 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security pursuant to Sub-Clause IB.13.5(a).

E. BID OPENING AND EVALUATION

IB.16 BID OPENING, CLARIFICATION AND EVALUATION

16.1 The Procuring Entity will open the bids, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the Bidding Data.

16.2 The bidder's name, Bid Prices, any discount, the presence or absence of Bid Security, and such other details as the Procuring Entity at its discretion may consider appropriate, will be announced by the Procuring Entity at the bid opening. The Procuring Entity will record the minutes of the bid opening. Representatives of the bidders who choose to attend shall sign the attendance sheet. Any Bid Price or discount which is not read out and recorded at bid opening will not be taken into account in the evaluation of bid.

16.3 To assist in the examination, evaluation and comparison of Bids the Engineer/Procuring Entity may, at its discretion, ask the bidder for a clarification of its Bid. The request for clarification and the response shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

16.4 **a.** Prior to the detailed evaluation, pursuant to Sub-Clauses IB.16.7 to 16.9, the Engineer/Procuring Entity will determine the substantial responsiveness of each bid to the Bidding Documents. For purpose of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviations. It will include to determine the requirements listed in Bidding Data.

b. Arithmetical errors will be rectified on the following basis:
If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there is a discrepancy between the Total Bid price entered in Form of Bid and the total shown in Schedule of Prices-Summary, the amount stated in the Form of Bid will be corrected by the Procuring Entity in accordance with the Corrected Schedule of Prices.
If the bidder does not accept the corrected amount of Bid, his Bid will be rejected and his Bid Security forfeited.

16.5 A Bid determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the bidder by correction of the non-conformity.

16.6 Any minor informality or non-conformity or irregularity in a Bid which does not constitute a material deviation may be waived by Procuring Entity, provided such waiver does not prejudice or affect the relative ranking of any other bidders.

16.7 The Engineer/Procuring Entity will evaluate and compare only the bids previously determined to be substantially responsive pursuant to Sub-Clauses IB.16.4 to 16.6 as per requirements given hereunder. Bids will be evaluated for complete scope of works. The prices will be compared on the basis of the Evaluated Bid Price pursuant to Sub-Clause 16.8 herein below.

a. **Technical Evaluation**
It will be examined in detail whether the Works offered by the bidder complies with the Technical Provisions of the Bidding Documents. For this purpose, the bidder's data submitted with the bid in Schedule B to Bid will be compared with technical features/criteria of the Works detailed in the Technical Provisions. Other technical information submitted with the bid regarding the Scope of Work will also be reviewed. (Bid will be evaluated as per BSD)

b. Financial Evaluation

It will be examined in detail whether the bids comply with the commercial/contractual conditions of the Bidding Documents. It is expected that no material deviation/stipulation shall be taken by the bidders.

16.8 **Evaluated Bid Price**

In evaluating the bids, the Engineer/Procuring Entity will determine for each bid in addition to the Bid Price, the following factors (adjustments) in the manner and to the extent indicated below to determine the Evaluated Bid Price:

i. Making any correction for arithmetic errors pursuant to Sub-Clause 16.4 hereof.

ii. Making an appropriate price adjustment for any other acceptable variation or deviation.

iii. Making an appropriate price adjustment for deviations in terms of Payments (if any and acceptable to the Procuring Entity).

iv. Discount, if any, offered by the bidders as also read out and recorded at the time of bid opening.

16.9 **Evaluation Methods**

Pursuant to Sub-Clause 16.8, Para (ii), and (iii) following evaluation methods for price adjustments will be followed:

i. **Price Adjustment for Technical Compliance**

The cost of making good any deficiency resulting from technical noncompliance will be added to the Corrected Total Bid Price for comparison purposes only. The adjustments will be applied taking the highest price quoted by other bidders being evaluated in detail in their original Bids for corresponding item. In case of non-availability of price from other bidders, the price will be estimated by the Engineer/Procuring Entity.

ii. **Price Adjustment for Commercial Compliance**

The cost of making good any deficiency resulting from any quantifiable variations and deviations from the Bid Schedules and Conditions of Contract, as determined by the Engineer/Procuring Entity will be added to the Corrected Total Bid Price for comparison purpose only. Adjustment for commercial compliance will be added to the Corrected Total Bid Prices.

iii. Price Adjustment for Deviation in Terms of Payments Refer to Bidding Data

IB.17 PROCESS TO BE CONFIDENTIAL

17.1 Subject to Sub-Clause IB.16.3 heretofore, no bidder shall contact Engineer/Procuring Entity on any matter relating to its Bid from the time of the Bid opening to the time the bid evaluation result is announced by the Procuring Entity. The evaluation result may be announced at least ten (10) days prior to award of Contract. The announcement to all bidders will be Tentative E-bid Comparative Statement.

17.2 Any effort by a bidder to influence Engineer/Procuring Entity in the Bid evaluation, bid comparison or Contract Award decisions may result in the rejection of his Bid. Whereas, any bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the bid evaluation result, however, mere fact of lodging a complaint shall not warrant suspension of procurement process.

F. AWARD OF CONTRACT

IB.18 QUALIFICATION

18.1 The Procuring Entity, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:
Provided that such qualification shall only be laid down after recording reasons therefore in writing. They shall form part of the records of that bid evaluation report.

18.2 The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidders' qualifications submitted under Clause IB.11, as well as such other information required in the Bidding Documents.

IB.19 AWARD CRITERIA & PROCURING ENTITY'S RIGHT

19.1 Subject to Sub-Clause IB.19.2, the Procuring Entity will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be qualified to satisfactorily perform the Contract in accordance with the provisions of Clause IB.18.

19.2 Notwithstanding Sub-Clause IB.19.1, the Procuring Entity reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract (acceptance of a bid or proposal rule 47(1)), without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the Procuring Entity's action except that the grounds for its rejection of all bids shall upon request be communicated, to any bidder who submitted a bid, without justification of the grounds. Notice of the rejection of all the bids shall be given promptly to all the bidders.

IB.20 NOTIFICATION OF AWARD & SIGNING OF CONTRACT AGREEMENT

20.1 Prior to expiration of the period of bid validity prescribed by the Procuring Entity, the Procuring Entity will notify the successful bidder in writing ("Letter of Acceptance") that his bid has been accepted.

20.2 Within seven (7) days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Procuring Entity will send the successful bidder the Form of Contract Agreement provided in the Bidding Documents, incorporating all agreements between the parties.

20.3 The formal Agreement between the Procuring Entity and the successful bidder shall be executed within seven (7) days of the receipt of Form of Contract Agreement by the successful bidder from the Procuring Entity.

IB.21 PERFORMANCE SECURITY

(As per KPPRA Rules 2014)

IB.22 INTEGRITY PACT

The Bidder shall sign and stamp the Form of Integrity Pact provided at Schedule-F to Bid in the Bidding Document for all procurement contracts exceeding Rupees ten (10) million. Failure to provide such Integrity Pact shall make the bid non-responsive.

BIDDING DATA

INSTRUCTIONS TO BIDDERS

Clause Reference

1.1 **Name of Procuring Entity**

Executive Engineer, Tube wells Irrigation Division Peshawar.

Brief Description of Works

Developmental

5.1 **a. Procuring Entity's address:**

Executive Engineer, Tube wells Irrigation Division Peshawar.

b. Engineer's address:

Executive Engineer, Tube wells Irrigation Division Peshawar
Phone No. 091-9222731, Email:tidpeshawar001@gmail.com

10.3 Bid shall be quoted entirely in Pak. Rupees (Above/Below) on applicable schedule and non-Schedule items. The payment shall be made in Pak. Rupees for work done on release of funds, subject to fulfillment of Codal Formalities, Technical Sanction, Agreement sanction, complying of Material & Technical specifications.

11.2 The bidder/manufacturer has the financial, technical and production capability necessary to perform the Contract i.e., Registration with PEC in relevant category & financial limit as noted in NIT and BSD, Registration with KPRA, Enlistment with Irrigation Department Khyber Pakhtunkhwa, has been issued E-bidding Login & Password.

12.1 a. Essential technical specification as per document at the following link are required:
https://www.finance.gkp.pk/attachments/d93e060021fd11ed9dd6e583925eacf0/download
(Material Specification on MRS 2022 / BOQ)
https://www.finance.gkp.pk/attachments/d93e060021fd11ed9dd6e583925eacf0/download
(Material Specification on MRS 2022 / BOQ)

THE CONTRACTOR SHALL FOLLOW TECHNICAL SPECIFICATIONS AS PER:
https://www.finance.gkp.pk/attachments/d941510021fd11ed83ab9ff43a4d68e0/download
(Technical Specification on MRS 2022 2nd Bi Annual / BOQ)
https://www.finance.gkp.pk/attachments/d941510021fd11ed83ab9ff43a4d68e0/download
(Technical Specification on MRS 2022 2nd Bi Annual / BOQ)

b. Complete set of tentative technical specifications as per Approved PC-I/T.S/BOQ

13.1 **Amount of Bid Security**

2% of Estimated Cost & as per KPPRA Notification No. S.R.O. (14)/Vol: 1-24/2021-22: Dated Peshawar, the 10th May 2022 /6058-71

14.1 **Period of Bid Validity**

90 Days

14.4 **Number of Copies of the Bid to be submitted**

One original 01 copy

14.6 **(a) Procuring Entity's Address for the Purpose of Bid Submission**

Executive Engineer, Tube wells Irrigation Division, Peshawar.
Phone No. 091-9222731, Email: tidpeshawar001@gmail.com

15.1 **Deadline for Submission of Bids**

As per NIT

16.1 **Venue, Time, and Date of Bid Opening**

Executive Engineer, Tube Wells Irrigation Division Peshawar
Warsak Road Kababian Peshawar.
Time: As per NIT
Date: As per NIT

16.4 **Responsiveness of Bids**

i. The Bid is valid till required period,
ii. The Bid prices are firm during currency of contract (if it is a fixed price bid)
iii. Completion period offered is within specified limits or as noted in NIT/SBD
iv. The Bidder/Manufacturer is eligible to Bid and possesses the requisite experience, capability and qualification. (As per SBD)
v. The Bids are generally in order, etc.
vi. The bid will be received thought courier as per NIT time, date and venue

16.9 **Price Adjustment:**

(NOT APPLICABLE)

FORM OF BID AND SCHEDULES TO BID

FORM OF BID
(LETTER OF OFFER)

Bid Reference No. _____

NIT No. _____

Date of Opening No. _____

Work No. as per NIT. _____

_____
(Name of Works)

To

Executive Engineer,
Tube Wells Irrigation Division,
Peshawar.

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Contract Data, Specifications, Drawings, if any, Schedule of Prices and Addenda Nos. _____ for the execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address_____ _____ and being duly incorporated under the laws of Pakistan hereby offer to execute and complete such Works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price of Rs_____(Rupees_____) or such other sum as may be ascertained in accordance with the said Documents.

2. We understand that all the Schedules attached hereto form part of this Bid.

3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of _____ drawn in your favour or made payable to you and valid for a period of twenty-eight (28) days beyond the period of validity of Bid.

4. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in Contract Data.

5. We agree to abide by this Bid for the period of _____ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

7. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract & as per KPPRA

Notification No. S.R.O. (14)/Vol: 1-24/2021-22: Dated Peshawar, the 10th May 2022 /6058-71.

8. We understand that you are not bound to accept the lowest or any bid you may receive.

9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

Dated this_____ day of _____, 20

Signature _____
in the capacity of _____duly authorized to sign bid for and on behalf of

_____
(Name of Bidder in Block Capitals) (Seal)

Address
_____

_____

_____

Witness:

(Signature)_____

Name:_____ NIC No._____
Address
_____

_____

© **Delete if alternative one is not adopted.**

SCHEDULES TO BID INCLUDE THE FOLLOWING:

- ☐ Schedule A to Bid: Schedule of Prices
- ☐ Schedule B to Bid: Specific Works Data
- ☐ Schedule C to Bid: Works to be Performed by Subcontractors
- ☐ Schedule D to Bid: Proposed Program of Works
- ☐ Schedule E to Bid: Method of Performing Works
- ☐ Schedule F to Bid: Integrity Pact

SCHEDULE OF PRICES

THE BOQ SHALL BE FILLED ONLINE ON IRRIGATION DEPARTMENT WEBSITE, THE PROCURING ENTITY SHALL NOT BE LIABLE FOR THE ERRORS/MALFUNCTIONS OF THE E-BIDDING SYSTEM, LOSS OR NON-PROVISION OF EBIDDING SYSTEM LOGIN & PASSWORD
http://www.irrigation.gkp.pk OR http://www.irrigation.gkp.pk/tenders.php

*SPECIFIC WORKS DATA

THE CONTRACTOR SHALL FOLLOW MATERIAL SPECIFICATIONS AS PER:
https://www.finance.gkp.pk/attachments/d93e060021fd11ed9dd6e583925eacf0/download
(Material Specification on MRS 2022 / BOQ)
https://www.finance.gkp.pk/attachments/d93e060021fd11ed9dd6e583925eacf0/download
(Material Specification on MRS 2022 / BOQ)

THE CONTRACTOR SHALL FOLLOW TECHNICAL SPECIFICATIONS AS PER:
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(Technical Specification on MRS 2022 2nd Bi Annual / BOQ)
https://www.finance.gkp.pk/attachments/d941510021fd11ed83ab9ff43a4d68e0/download
(Technical Specification on MRS 2022 2nd Bi Annual / BOQ)

FOR SCHEDULE ITEMS AND INDUSTRY STANDARDS SHALL BE ADOPTED/ FOLLOWED FOR NON-SCHEDULE ITEMS

WORKS TO BE PERFORMED BY SUB CONTRACTORS

The bidder will do the work with his own forces except the work listed below which he intends to sub-contract.

Items of Works to be Sub-Contracted	Name and address of Sub-Contractors	Statement of similar works previously executed (attach evidence)

Note:

1. No change of Sub-Contractors shall be made by the bidder without prior approval of the Procuring Entity.

2. The truthfulness and accuracy of the statement as to the experience of Sub-Contractors is guaranteed by the bidder. The Procuring Entity's judgment shall be final as to the evaluation of the experience of Sub-Contractors submitted by the bidder.

3. Statement of similar works shall include description, location & value of works, year completed and name & address of the clients.

PROPOSED PROGRAM OF WORKS

Bidder may provide a program in a bar-chart showing the sequence of work items by which he proposes to complete the Works of the entire Contract. The program should indicate the sequence of work items and the period of time during which he proposes to complete the Works including the activities like designing, schedule of submittal of drawings, ordering and procurement of materials, manufacturing, delivering, construction of civil works, erection, testing and commissioning of Works to be supplied under the Contract.

Signature: _____

Seal: _____

Dated: _____

METHOD OF PERFORMING WORKS

(NOT APPLICABLE)

The bidder is required to submit a narrative outlining the method of performing the Works.
The narrative should indicate in detail and include but not be limited to:

- The sequence and methods in which he proposes to carry out the Works, including the number of shifts per day and hours per shift, he expects to work.
- A list of all major items of constructional and erectional plant, tools and vehicles proposed to be used in delivering/carrying out the Works at Site
- The procedure for installation of equipment and transportation of equipment and materials to the site.

Organization chart indicating head office & field office personnel involved in management, supervision and engineering of the Works to be done under the Contract.

(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAID 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 the Bidder] 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 Khyber Pakhtunkhwa or any administrative subdivision or agency thereof or any other entity owned or controlled by Government of Khyber Pakhtunkhwa through any corrupt business practice.

Without limiting the generality of the foregoing, [name of the Bidder] 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 Government of Khyber Pakhtunkhwa , except that which has been expressly declared pursuant hereto.

[name of the Bidder] 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 GoKP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of the Bidder] 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 GoKP under any law, contract or other instrument, be voidable at the option of GoKP.

Notwithstanding any rights and remedies exercised by GoKP in this regard, [name of the Bidder] agrees to indemnify GoKP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoKP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of the Bidder] 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 GoKP.

Name of the Procuring Entity:	Name of the Bidder:
_____	_____
Signature: ……	Signature: ……
[Seal]	[Seal]

CONDITIONS OF CONTRACT

TABLE OF CONTENTS

CONDITIONS OF CONTRACT

Clause No.	Description	Page No.
1.	General Provisions	
2.	The Procuring Entity	
3.	Engineer's/Procuring Entity's Representatives	
4.	The Contractor	
5.	Design by Contractor	
6.	Procuring Entity's Risks	
7.	Time for Completion	
8.	Taking Over	
9.	Remedying Defects	
10.	Variations And Claims	
11.	Contract Price and Payment	
12.	Default	
13.	Risks And Responsibilities	
14.	Insurance	
15.	Resolution of Disputes	
16.	Integrity Pact	

CONDITIONS OF CONTRACT

1. GENERAL PROVISIONS

1.1 **Definitions**

In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

The Contract

1.1.1 "Contract" means the Contract Agreement and the other documents listed in the Contract Data.

1.1.2 "Specifications" means the document as listed in the Contract Data, including Procuring Entity's requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.

1.1.3 "Drawings" means the Procuring Entity's drawings of the Works as listed in the Contract Data, and any Variation to such drawings.

Persons

1.1.4 "Procuring Entity" means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.

1.1.5 "Contractor" means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Procuring Entity) any assignee.

1.1.6 "Party" means either the Procuring Entity or the Contractor.

Dates, Times and Periods

1.1.7 "Commencement Date" means the date fourteen (14) days after the date the Contract comes into effect or any other date named in the Contract Data.

1.1.8 "Day" means a calendar day

1.1.9 "Time for Completion" means the time for completing the Works as stated in the Contract Data (or as extended under Sub-Clause 7.3), calculated from the Commencement Date.

Money and Payments

1.1.10 "Cost" means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges but does not include any allowance for profit.

Other Definitions

1.1.11 "Contractor's Equipment" means all machinery, apparatus and other things required for the execution of the Works but does not include Materials or Plant intended to form part of the Works.

1.1.12 "Country" means the Islamic Republic of Pakistan.

1.1.13 "Province" means Khyber Pakhtunkhwa.

1.1.14 "Procuring Entity's Risks" means those matters listed in Sub-Clause 6.1.

1.1.15 "Force Majeure" means an event or circumstance which makes performance of a Party's obligations illegal or impracticable and which is beyond that Party's reasonable control.

1.1.16 'Materials" means things of all kinds (other than Plant) to be supplied and incorporated in the Works by the Contractor.

1.1.17 "Plant" means the machinery and apparatus intended to form or forming part of the Works.

1.1.18 "Site" means the places provided by the Procuring Entity where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.

1.1.19 "Variation" means a change which is instructed by the Engineer/Procuring Entity under Sub-Clause 10.1.

1.1.20 "Works" means any or all the works whether Supply, Installation, Construction etc. and design (if any) to be performed by the Contractor including temporary works and any variation thereof.

1.1.21 "Engineer" means the person, if any, notified by the Procuring Entity to act as Engineer for the purpose of the Contract and named as such in Contract Data.

1.2 **Interpretation**

Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.

1.3 **Priority of Documents**

The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract Data.

1.4 **Law**

The law of the Contract is the relevant Law of Khyber Pakhtunkhwa Province,

1.5 **Communications**

All Communications related to the Contract shall be in English language.

1.6 **Statutory Obligations**

The Contractor shall comply with the Laws of Islamic Republic of Pakistan and shall give all notices and pay all fees and other charges in respect of the Works.

2. THE PROCURING ENTITY

2.1 **Provision of Site**

The Procuring Entity shall provide the Site and right of access thereto at the times stated in the Contract Data.

2.2 **Permits etc.**

The Procuring Entity shall, if requested by the Contractor, assist him in applying for permits, licenses or approvals which are required for the Works.

2.3 **Engineer's/Procuring Entity's Instructions**

The Contractor shall comply with all instructions given by the Procuring Entity or the Engineer, if notified by the Procuring Entity, in respect of the Works including the suspension of all or part of the Works.

2.4 **Approvals**

No approval or consent or absence of comment by the Engineer/Procuring Entity shall affect the Contractor's obligations.

3. ENGINEER'S/PROCURING ENTITY'S REPRESENTATIVES

3.1 Authorized Person

The Procuring Entity shall appoint a duly authorized person to act for him and on his behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case the Procuring Entity shall notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

3.2 Engineer's/Procuring Entity's Representative

The name and address of Engineer's/Procuring Entity's Representative is given in Contract Data. However, the Contractor shall be notified by the Engineer/Procuring Entity, the delegated duties and authority before the Commencement of Works.

4. THE CONTRACTOR

4.1 General Obligations

The Contractor shall carry out the Works properly and in accordance with the Contract. The Contractor shall provide all supervision, labour, Materials, Plant and Contractor's Equipment which may be required.

4.2 Contractor's Representative

The Contractor shall appoint a representative at site on full time basis to supervise the execution of work and to receive instructions on behalf of the Contractor but only after obtaining the consent of the Procuring Entity for such appointment which consent shall not be unreasonable withheld by the Procuring Entity. Such authorized representative may be substituted/replaced by the Contractor at any time during the Contract Period but only after obtaining the consent of the Procuring Entity as aforesaid.

4.3 Subcontracting

The Contractor shall not subcontract the whole of the Works. The Contractor shall not subcontract any part of the Works without the consent of the Procuring Entity.

4.4 Performance Security

As per KPRA Rules 2014

5. DESIGN BY CONTRACTOR

5.1 Contractor's Design

The Contractor shall carry out design to the extent specified, as referred to in the Contract Data. The Contractor shall promptly submit to the Engineer/Procuring Entity all designs prepared by him. Within fourteen (14) days of receipt the Engineer/Procuring Entity shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons. The Contractor shall not construct any element of the Works designed by him within fourteen (14) days after the design has been submitted to the Engineer/Procuring Entity or which has been rejected. Design that has been rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary.

5.2 **Responsibility for Design**

The Contractor shall remain responsible for his bided design and the design under this Clause, both of which shall be fit for the intended purposes defined in the Contract and he shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Procuring Entity shall be responsible for the Specifications and Drawings.

6. PROCURING ENTITY'S RISKS

6.1 **The Procuring Entity's Risks**

The Procuring Entity's Risks are: -

a. War, hostilities (whether war be declared or not), invasion, act of foreign enemies, within the Country**;**

b. Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country**;**

c. Riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Works**;**

d. Ionizing radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/Sub-Contractors may be responsible for the use of any radio-active material**;**

e. Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds**;**

f. Use or occupation by the Procuring Entity of any part of the Works, except as may be specified in the Contract**;**

g. Late handing over of sites, anomalies in drawings, late delivery of designs and drawings of any part of the Works by the Procuring Entity's personnel or by others for whom the Procuring Entity is responsible;

h. A suspension under Sub-Clause 2.3 unless it is attributable to the Contractor's failure; and

i. Physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, for which the Contractor immediately notified to the Procuring Entity and accepted by the Procuring Entity.

7. TIME FOR COMPLETION

7.1 **Execution of the Works**

The Contractor shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works, subject to Sub-Clause 7.3 below, within the Time for Completion.

7.2 **Program**

Within the time stated in the Contract Data, the Contractor shall submit to the Engineer/Procuring Entity a program for the Works in the form stated in the Contract Data.

7.3 **Extension of Time**

The Contractor shall, within such time as may be reasonable under the circumstances, notify the Procuring Entity/Engineer of any event(s) falling within the scope of Sub-Clause 6.1 or 10.3 of these Conditions of Contract and request the Procuring Entity/Engineer for a reasonable extension in the time for the completion of Works. Subject to the aforesaid, the Procuring Entity/Engineer shall determine such reasonable extension in the time for the completion of Works as may be justified in the light of the details/particulars supplied by the Contractor in connection with the such determination by the Procuring Entity/Engineer within such period as may be prescribed by the Procuring Entity/Engineer for the same; and the Procuring Entity shall extend the Time for Completion as determined.

7.4 **Late Completion**

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the Procuring Entity for such failure shall be to pay the amount stated in the Contract Data for each day for which he fails to complete the Works.

8. TAKING-OVER

8.1 **Completion**

The Contractor may notify the Engineer/Procuring Entity when he considers that the Works are complete.

8.2 **Taking-Over Notice**

Within fourteen (14) days of the receipt of the said notice of completion from the Contractor the Procuring Entity/Engineer shall either takeover the completed Works and issue a Certificate of Completion to that effect or shall notify the Contractor his reasons for not taking-over the Works. While issuing the Certificate of Completion as aforesaid, the Procuring Entity/Engineer may identify any outstanding items of work which the Contractor shall undertake during the Maintenances Period.

9. REMEDYING DEFECTS

9.1 **Remedying Defects**

The Contractor shall for a period of 120 days from the date if issue of the Certificate of Completion carries out, at no cost to the Procuring Entity, repair and rectification work which is necessitated by the earlier execution of poor quality of work or use of below specifications material in the execution of Works and which is so identified by the Procuring Entity/Engineer in writing within the said period. Upon expiry of the said period, and subject to the Contractor's faithfully performing his aforesaid obligations, the Procuring Entity/Engineer shall issue a Maintenance Certificate whereupon all obligations of the Contractor under this Contract shall come to an end. Failure to remedy any such defects or complete outstanding work within a reasonable time shall entitle the Procuring Entity to carry out all necessary works at the Contractor's cost. However, the cost of remedying defects not attributable to the Contractor shall be valued as a Variation.

9.2 **Uncovering and Testing**

The Engineer/Procuring Entity may give instruction as to the uncovering and/or testing of any work. Unless as a result of an uncovering and/or testing it is established that the Contractor's design, Materials, Plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with Sub-Clause 10.2.

10. VARIATIONS AND CLAIMS

10.1 **Right to Vary**

The Procuring Entity/Engineer may issue Variation Order(s) in writing. where for any reason it has not been possible for the Procuring Entity/Engineer to issue such Variations Order(s), the Contractor may confirm any verbal orders given by the Procuring Entity/Engineer in writing and if the same are not refuted/denied by the Procuring Entity/Engineer within seven (7) days of the receipt of such confirmation the same shall be deemed to be a Variation Orders for the purposes of this Sub-Clause.

10.2 **Valuation of Variations**

Variations shall be valued as follows:

a. At a lump sum price agreed between the Parties, or
b. where appropriate, at rates in the Contract, or
c. in the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which
d. at appropriate new rates, as may be agreed or which the Engineer/Procuring Entity considers appropriate, or
e. if the Engineer/Procuring Entity so instructs, at day work rates set out in the Contract Data for which the Contractor shall keep records of hours of labour and Contractor's Equipment, and of Materials, used.

10.3 **Early Warning**

The Contractor shall notify the Engineer/Procuring Entity in writing as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment.

To the extent of the Contractor's failure to notify, which results to the Engineer/Procuring Entity being unable to keep all relevant records or not taking steps to minimize any delay, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension of the Time for Completion or additional payment shall be reduced/rejected.

10.4 **Valuation of Claims**

If the Contractor incurs Cost as a result of any of the Procuring Entity's Risks, the Contractor shall be entitled to the amount of such Cost. If as a result of any Procuring Entity's Risk, it is necessary to change the Works, this shall be dealt with as a Variation subject to Contractor's notification for intention of claim to the Engineer/Procuring Entity within fourteen (14) days of the occurrence of cause.

10.5 **Variation and Claim Procedure**

The Contractor shall submit to the Engineer/Procuring Entity an itemized make-up of the value of variations and claims within twenty-eight (28) days of the instruction or of the event giving rise to the claim. The Engineer/Procuring Entity shall check and if possible, agree the value. In the absence of agreement, the Procuring Entity shall determine the value.

11. CONTRACT PRICE AND PAYMENT

11.1 **a. Terms of Payments**

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall , subject to Clause 7.4 of Conditions of Contract (CoC) be paid by the Procuring Entity to the Contractor within 30 days after such Interim Payment Certificate has been

jointly verified by Procuring Entity and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 11.5 of CoC, within 60 days after such Final Payment Certificate has been jointly verified by Procuring Entity and Contractor; Provided that the Interim Payment shall be caused in 42 days and Final Payment in 60 days in case of foreign funded project. In the event of the failure of the Procuring Entity to make payment within the times stated, the Procuring Entity shall pay to the Contractor compensation at the 28 days rate of KIBOR+2% per annum in local currency and LIBOR+1% for foreign currency, upon all sums unpaid from the date by which the same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement under Clause 12.2 CoC. (N/A)

b. Valuation of the Works

The Works shall be valued as provided for in the Contract Data, subject to Clause 10.

11.2 **Monthly Statements**

The Contractor shall be entitled to be paid at monthly intervals:

a. The value of the Works executed; and the percentage of the value of Materials and Plant reasonably delivered to the Site, as stated in the Contract Data, subject to any additions or deductions which may be due.

b. The Contractor shall submit each month to the Engineer/Procuring Entity a statement showing the amounts to which he considers himself entitled.

11.3 **Interim Payments**

Within a period not exceeding seven (7) days from the date of submission of a statement for interim payment by the Contractor, the Engineer / Procuring Entity shall verify the same and within a period not exceeding thirty (30) days from the said date of submission by the Contractor, the Procuring Entity shall pay to the Contractor the sum verified by the Engineer less retention money at the rate stated in the Contract Data.

11.4 **Retention**

Retention money shall be paid by the Procuring Entity to the Contractor within fourteen (14) days after either the expiry of the period stated in the Contract Data, or the remedying of notified defects, or the completion of outstanding work, all as referred to in Sub-Clause 9.1, whichever is the later.

11.5 **Final Payment**

Within twenty-one (21) days from the date of issuance of the Maintenance Certificate the Contractor shall submit a final account to the Engineer to verify and the Engineer shall verify the same within fourteen (14) days from the date of submission and forward the same to the Procuring Entity together with any documentation reasonably required to enable the Procuring Entity to ascertain the final contract value. Within sixty (60) days from the date of receipt of the verified final account from the Engineer, the Procuring Entity shall pay to the Contractor any amount due to the Contractor. While making such payment the Procuring Entity may, for reasons to be given to the Contractor in writing, withhold any part or parts of the verified amount.

11.6 **Currency**

Payment shall be in the currency stated in the Contract Data.

12. DEFAULT

12.1 **Default by Contractor**

If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Engineer/Procuring Entity or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Procuring Entity may give notice referring to this Sub-Clause and stating the default. If the Contractor has not taken all practicable steps to remedy the default within fourteen (14) days after receipt of the Procuring Entity's notice, the Procuring Entity may by a second notice given within a further twenty-one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site leaving behind any Contractor's Equipment which the Procuring Entity instructs, in the second notice, to be used for the completion of the Works at the risk and cost of the Contractor.

12.2 **Default by Procuring Entity**

If the Procuring Entity fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default is not remedied within fourteen (14) days after the Procuring Entity's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works.
If the default is not remedied within twenty-eight (28) days after the Procuring Entity's receipt of the Contractor's notice, the Contractor may by a second notice given within a further twenty-one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site.

12.3 **Insolvency**

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilize from the Site leaving behind, in the case of the Contractor's insolvency, any Contractor's Equipment which the Procuring Entity instructs in the notice is to be used for the completion of the Works.

12.4 **Payment upon Termination**

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

a. Any sums to which the Contractor is entitled under Sub-Clause 10.4,
b. Any sums to which the Procuring Entity is entitled,
c. if the Procuring Entity has terminated under Sub-Clause 12.1 or 12.3, the Procuring Entity shall be entitled to a sum equivalent to twenty percent (20%) of the value of parts of the Works not executed at the date of the termination, and
d. if the Contractor has terminated under Sub-Clause 12.2 or 12.3, the Contractor shall be entitled to the cost of his demobilization together with a sum equivalent to ten percent (10%) of the value of parts of the Works not executed at the date of termination.

The net balance due shall be paid or repaid within twenty-eight (28) days of the notice of termination.

13. RISKS AND RESPONSIBILITIES

13.1 **Contractor's Care of the Works**
Subject to Sub-Clause 9.1, the Contractor shall take full responsibility for the care of the Works from the Commencement Date until the date of the Procuring

Entity's/Engineer's issuance of Certificate of Completion under Sub-Clause 8.2. Responsibility shall then pass to the Procuring Entity. If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform with the Contract.

Unless the loss or damage happens as a result of any of the Procuring Entity's Risks, the Contractor shall indemnify the Procuring Entity, or his agents against all claims loss, damage and expense arising out of the Works.

13.2 **Force Majeure**

If Force Majeure occurs, the Contractor shall notify the Engineer/Procuring Entity immediately. If necessary, the Contractor may suspend the execution of the Works and, to the extent agreed with the Procuring Entity demobilize the Contractor's Equipment.

If the event continues for a period of eighty-four (84) days, either Party may then give notice of termination which shall take effect twenty-eight (28) days after the giving of the notice.

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

a. Any sums to which the Contractor is entitled under Sub-Clause 10.4,
b. The cost of his demobilization, and
c. less any sums to which the Procuring Entity is entitled.

The net balance due shall be paid or repaid within thirty-five (35) days of the notice of termination.

14. INSURANCE

14.1 **Arrangements**

The Contractor shall, prior to commencing the Works, effect insurances of the types, in the amounts and naming as insured the persons stipulated in the Contract Data except for items (a) to (e) and (i) of the Procuring Entity's Risks under Sub-Clause 6.1. The policies shall be issued by insurers and in terms approved by the Procuring Entity. The Contractor shall provide the Engineer/Procuring Entity with evidence that any required policy is in force and that the premiums have been paid.

14.2 **Default**

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous Sub-Clause, or fails to provide satisfactory evidence, policies or receipts, the Procuring Entity may, without prejudice to any other right or remedy, effect insurance for the cover relevant to such as a default and pay the premiums due and recover the same plus a sum in percentage given in Contractor Data from any other amounts due to the Contractor.

15. RESOLUTION OF DISPUTES

15.1 **Engineer's Decision**

If a dispute of any kind whatsoever arises between the Procuring Entity and the Contractor in connection with the Works, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state that it is made pursuant to this Clause. No later than the twenty-eight (28) days after the day on which he received such reference, the Engineer shall give notice of his decision to the Procuring Entity and the Contractor. Unless the Contract has

already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the Work with all due diligence, and the Contractor and the Procuring Entity shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided in an arbitral award.

15.2 **Notice of Dissatisfaction**

If a Party is dissatisfied with the decision of the Engineer or if no decision is given within the time set out in Sub-Clause 15.1 hereabove, the Party may give notice of dissatisfaction referring to this Sub-Clause within fourteen (14) days of receipt of the decision or the expiry of the time for the decision. If no notice of dissatisfaction is given within the specified time, the decision shall be final and binding on the Parties. If notice of dissatisfaction is given within the specified time, the decision shall be binding on the Parties who shall give effect to it without delay unless and until the decision of the Engineer is revised by an arbitrator.

15.3 **Arbitration**

A dispute which has been the subject of a notice of dissatisfaction shall be finally settled as per provisions of Arbitration Act 1940 (Act No. X of 1940) and Rules made thereunder and any statutory modifications thereto. Any hearing shall be held at the place specified in the Contract Data and in the language referred to in Sub-Clause 1.5.

15.4 **Resolution of Dispute in Absence of The Engineer.**

In case no Engineer has been appointed, the dispute, if any, between the Procuring Entity and the Contractor in connection with the Works, shall first be tried to be resolved amicably. In case the dispute could not be resolved amicably, it shall be settled as per provision of Arbitration Act-1940.

16. INTEGRITY PACT

16.1 If the Contractor, or any of his Sub-Contractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Schedule-F to his Bid, then the Procuring Entity shall be entitled to:

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

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Contractor shall demobilize from the Site leaving behind Contractor's Equipment which the Procuring Entity instructs, in the termination notice, to be used for the completion of the Works at the risk and cost of the Contractor. Payment upon such termination shall be made under Sub-Clause 12.4, in accordance with Sub-Para (c) thereof, after having deducted the amounts due to the Procuring Entity under Sub-Para (a) and (c) of this Sub-Clause.

CONTRACT DATA

(Note: Except where otherwise indicated, all Contract Data should be filled in by the Procuring Entity prior to issuance of the Bidding Documents.)

Sub-Clauses of Conditions of Contract

1.1.3 **Procuring Entity's Drawings, if any**
As per PC-I / T.S / B.O.Q

1.1.4 **Procuring Entity**
Means **Executive Engineer, Tube wells Irrigation Division Peshawar.**

1.1.5 **The Contractor**
Means **M/S _____ Govt: Contractor**

1.1.7 **Commencement Date**
Means the date of issue of Engineer's Notice to Commence which shall be issued within fourteen (14) days of the signing of the Contract Agreement.

1.1.9 **Time for Completion**
As per Work order

1.1.20 **Engineer,**
Executive Engineer (Concerned)

1.3 **Documents forming the Contract listed in the order of priority:**

a. The Contract Agreement
b. Letter of Acceptance
c. The completed Form of Bid
d. Contract Data
e. Conditions of Contract
f. The completed Schedules to Bid including Schedule of Prices
g. The Drawings, if any
h. The Specifications
i. _____
j. _____

(The Procuring Entity may add, in order of priority, such other documents as form part of the Contract. Delete the document, if not applicable)

2.1 **Provision of Site:**
On the Commencement Date by the Sub Divisional Officer (Concerned)

3.1 **Authorized person:**
Executive Engineer, Tube wells Irrigation Division Peshawar.

3.2 **Name and address of Engineer's/Procuring Entity's representative**
Executive Engineer, Tube Wells Irrigation Division, Peshawar.
Warsak Road Kababian Peshawar.

4.4 **Performance Security:**
As per KPPRA Rules 2014.

5.1 **Requirements for Contractor's design (if any):**
Specification Clause No's_____N/A_____

7.2 **Program:**
Time for submission:
Within fourteen (14) days* of the Commencement Date.
Form of program:
(Bar Chart)

7.4 Amount payable due to failure to complete shall be 0.05% per day up to a maximum of (10%) * of sum of Contract Price.
(Usually, the liquidated damages are set between 0.05% and 0.10 percent per day.)

9.1 **Period for remedying defects**
24 Months after final measurement date

10.2 (e) **Variation procedure:**
Daywork rates_____N/A_____(details)

11.1 ***(a)** **Terms of Payments**
Payment of Contract Price shall be made in the following manners**:**
--------N.A--------

***(b)** **Valuation of the Works:**
i. Lump sum price_____(details), or
ii. Lump sum price with schedules of rates _____ (details), or
iii. Lump sum price with bill of quantities_____(details), or
iv. Re-measurement with estimated/bid quantities in the Schedule of Prices_____(details), or/and
v. Cost reimbursable_____(details)

11.2 (b) **Percentage of value of Materials and Plant (for day work if applicable):**
Materials eighty (80%)*
Plant ninety (90%)*

11.3 **Percentage of retention:**
Eight (08%)

11.6 **Currency of payment:**
Pak. Rupees

14.1 **Insurances:**

i. **Type of cover**
The Works

ii. **Amount of cover**
The sum stated in the Letter of Acceptance plus fifteen percent (15%)

iii. **Type of cover**
Contractor's Equipment:

iv. **Amount of cover**
Full replacement cost

* (Procuring Entity to amend as appropriate)

Type of cover
Third Party-injury to persons and damage to property

_____
(The minimum amount of third-party insurance should be assessed by the Procuring Entity and entered).

Workers:

_____

_____

Other cover*:

_____
(In each case name of insured is Contractor and Procuring Entity)

14.2 **Amount to be recovered**
Premium plus _____ percent (____%).

15.3 **Arbitration**
Place of Arbitration: The Grievance redressal mechanism as per KPPRA shall be applicable, only./ Arbitration Act 1940 & place shall be Peshawar, KP.

STANDARD FORMS

(Note: Standard Forms provided in this document for securities are to be issued by a bank. In case the bidder chooses to issue a bond for accompanying his bid or performance of contract or receipt of advance, the relevant format shall be tailored accordingly without changing the spirit of the Forms of securities).

FORM OF BID SECURITY

(Bank Guarantee)

Guarantee No._____

Executed on _____

(Letter by the Guarantor to the Procuring Entity)

Name of Guarantor (Scheduled Bank in Pakistan) with address:_____

Name of Principal (Bidder) with address:_____

_____

Penal Sum of Security (express in words and figures):_____

_____

Bid Reference No._____ Date of Bid _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal, we the Guarantor above-named are held and firmly bound unto the _____, (hereinafter called The "Procuring Entity") in the sum stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal has submitted the accompanying Bid numbered and dated as above for _____ (Particulars of Bid) to the said Procuring Entity; and WHEREAS, the Procuring Entity has required as a condition for considering the said Bid that the principal furnishes a Bid Security in the above said sum to the Procuring Entity, conditioned as under:

(1) that the Bid Security shall remain valid for a period of twenty-eight (28) days beyond the period of validity of the bid;

(2) that in the event of;

- (a) The principal withdraws his Bid during the period of validity of Bid, or
- (b) The principal does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) of Instructions to Bidders, or
- (c) failure of the successful bidder to
  - (i) furnish the required Performance Security, in accordance with Sub-Clause IB-21.1 of Instructions to Bidders, or
  - (ii) sign the proposed Contract Agreement, in accordance with Sub-Clauses IB-20.2 & 20.3 of Instructions to Bidders,

The entire sum be paid immediately to the said Procuring Entity for delayed completion and not as penalty for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract Agreement with the said Procuring Entity in accordance with his Bid as accepted and furnish within fourteen (14) days of receipt of Letter of Acceptance, a Performance Security with good and sufficient surety , as may be required, upon the form prescribed by the said Procuring Entity for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Guarantor shall forthwith pay to the Procuring Entity the said sum stated above upon first written demand of the Procuring Entity without cavil or argument and without requiring the Procuring Entity to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Procuring Entity by registered post duly addressed to the Guarantor at its address given above.

PROVIDED ALSO THAT the Procuring Entity shall be the sole and final judge for deciding whether the principal has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Guarantor shall pay without objection the sum stated above upon first written demand from the Procuring Entity forthwith and without any reference to the principal or any other person.

IN WITNESS WHEREOF, the above bounded Guarantor has executed the instrument under its seal on the date indicated above, the name and seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

_____
Guarantor (Bank)

Witness:

1._____

_____
Corporate Secretary (Seal)

2._____

_____
(Name, Title & Address)

1. Signature_____

2. Name_____

3. Title_____

Corporate Guarantor (Seal)

FORM OF PERFORMANCE SECURITY
(Bank Guarantee)

Guarantee No._____
Executed on _____

(Letter by the Guarantor to the Procuring Entity)

Name of Guarantor (Scheduled Bank in Pakistan) with

address:_____

Name of Principal (Contractor) with
address:_____
_____

Penal Sum of Security (express in words and
figures)_____
_____

Letter of Acceptance No._____Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Procuring Entity) in the penal sum of the amount stated above, for the payment of which sum well and truly to be made to the said Procuring Entity, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal has accepted the Procuring Entity's above said Letter of Acceptance for _____ (Name of Contract) for the _____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Procuring Entity, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of the said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 9, Remedying Defects, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Procuring Entity without delay upon the Procuring Entity's first written demand without cavil or arguments and without requiring the Procuring Entity to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Procuring Entity's written declaration that the Principal has refused or failed to perform the obligations under the Contract, for which payment will be effected by the Guarantor to Procuring Entity’s designated Bank & Account Number.

PROVIDED ALSO THAT the Procuring Entity shall be the sole and final judge for deciding whether the principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Procuring Entity forthwith and without any reference to the principal or any other person.

IN WITNESS WHEREOF, the above bounded Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

_____
Guarantor (Bank)

Witness:

1._____

_____
Corporate Secretary (Seal)

2._____

_____
(Name, Title & Address)

1. Signature_____

2. Name_____

3. Title_____

_____
Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____day of _____ 20 _____ between Executive Engineer, Tube Wells Irrigation Division, Peshawar. (Hereinafter called the "Procuring Entity") of the one part and

_____

(hereinafter called the "Contractor") of the other part.

WHEREAS the Procuring Entity is desirous that certain Work/s, viz _____

_____

_____should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnesseth as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any except those parts relating to Instructions to Bidders, shall be deemed to form and be read and construed as part of this Agreement, viz:

    a. The Letter of Acceptance;
    b. The completed Form of Bid along with Schedules to Bid;
    c. Conditions of Contract & Contract Data;
    d. The priced Schedule of Prices;
    e. The Specifications; and
    f. The Drawings

3. In consideration of the payments to be made by the Procuring Entity to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Procuring Entity to execute and complete the Works and remedy defects therein in conformity and in all respects within the provisions of the Contract.
4. The Procuring Entity hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Contract Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor_____ _____(Seal)

Signature of the Procuring Entity_____ _____(Seal)

Signed, Sealed and Delivered in the presence of:

Witness: Witness:

_____ _____

(Name, Title and Address) (Name, Title and Address)

FORM OF BANK GUARANTEE FOR ADVANCE PAYMENT

Guarantee No._____

Executed on_____

(Letter by the Guarantor to the Procuring Entity)

WHEREAS the Executive Engineer, Tube Well Irrigation Division, Peshawar. (Hereinafter called the Procuring Entity) has entered into a Contract for _____ _____ _____ (Particulars of Contract), with _____ _____ (hereinafter called the Contractor).

AND WHEREAS the Procuring Entity has agreed to advance to the Contractor, at the Contractor's request, an amount of Rs._____ Rupees _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS the Procuring Entity has asked the Contractor to furnish Guarantee to secure the advance payment for the performance of his obligations under the said Contract.

AND WHEREAS _____ (Scheduled Bank) (hereinafter called the Guarantor) at the request of the Contractor and in consideration of the Procuring Entity agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW THEREFORE the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above-mentioned Contract and if he fails, and commits default in fulfillment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Procuring Entity for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Procuring Entity shall be the sole and final judge, as aforesaid, on the part of the Contractor, shall be given by the Procuring Entity to the Guarantor, and on such first written demand payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall come into force as soon as the advance payment has been credited to the account of the Contractor.

This Guarantee shall expire not later than _____by which date we must have received any claims by registered letter, telegram, telex or e-mail.

It is understood that you will return this Guarantee to us on expiry or after settlement of the total amount to be claimed hereunder.

_____
Guarantor (Bank)

Witness:

1._____

_____
Corporate Secretary (Seal)

2._____

_____
(Name, Title & Address)

1. Signature_____

2. Name_____

3. Title_____

_____
Corporate Guarantor (Seal)

SPECIFICATIONS

Note for Preparing the Specifications

Standard technical specification as per document at the following link are required:
https://www.finance.gkp.pk/attachments/d93e060021fd11ed9dd6e583925eacf0/download
(Material Specification on MRS 2022 / BOQ)
https://www.finance.gkp.pk/attachments/d93e060021fd11ed9dd6e583925eacf0/download
(Material Specification on MRS 2022 / BOQ)

THE CONTRACTOR SHALL FOLLOW TECHNICAL SPECIFICATIONS AS PER:
https://www.finance.gkp.pk/attachments/d941510021fd11ed83ab9ff43a4d68e0/download
(Technical Specification on MRS 2022 2nd Bi Annual / BOQ)
https://www.finance.gkp.pk/attachments/d941510021fd11ed83ab9ff43a4d68e0/download
(Technical Specification on MRS 2022 2nd Bi Annual / BOQ)

Bill Of Quantity

Name of Work:- ***PROVISION OF IRRIGATION / AUGMENTATION TUBEWELLS & LIFT IRRIGATION SCHEME AT REQUIRED PLACES IN KHYBER PAKHTUNKHWA ADP No. 2052/170597 dg: 2023-24.***

Sub Work:- ***Installation of Solar System for Irrigation tubewell No-2 shaidu in District Nowshera. (Solar work)***

(Discharge = 7000,iGPH) (T.D.Head = 230,ft) (Pump setting = 260,ft)

S.No	MRS 2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	24-93-d	Supply & Installation, testing and commissioning of Solar Submersible Pump (ISO - 9906 Certified) coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Solar Pump Controller, du/dt filter Complete in all accessories including cooling jackets, NRV, Pressure Gauge, Sluice valves (02 Nos) except column pipe and power cable for discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.13	99736.50	810857.75
2	24-97-d	Supply & Installation, testing and commissioning of complete Solar PV Generator including A-Grade Mono Crystalline PV Modules , Manual Tracker Mounting Structure and Foundation Civil work, Junction Boxes, Fuses, DC Breakers, Wiring complete upto Solar Pump Inerter, sized at a sizing factor of 1.50 capable of operating its intended solar pump having discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.13	259153.91	2106921.29
3	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,erssible pump: 3" (100 mm) Nominal Pipe Size (NPS), 3/16" thick 10' length	Mtr	79.25	2858.78	226558.32
4	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2	Mtr	81.31	684.62	55666.45
					Total in Rs. =	3200004
					Total In Million =	3.2000

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……..% Above / Below
Contractor Premium N.S.I……..% Above / Below

Contractor Signature……

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Pabbi.

Sub Engineer

Bill Of Quantity

Name of Work:- ***PROVISION OF IRRIGATION / AUGMENTATION TUBEWELLS & LIFT IRRIGATION SCHEME AT REQUIRED PLACES IN KHYBER PAKHTUNKHWA ADP No. 2052/170597 dg: 2023-24.***

Sub Work:- ***Installation of Solar System for Irrigation tubewell No-3 shaidu in District Nowshera. (Solar work)***

(Discharge = 7000,iGPH) (T.D.Head = 230,ft) (Pump setting = 260,ft)

S.No	MRS 2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	24-93-d	Supply & Installation, testing and commissioning of Solar Submersible Pump (ISO - 9906 Certified) coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Solar Pump Controller, du/dt filter Complete in all accessories including cooling jackets, NRV, Pressure Gauge, Sluice valves (02 Nos) except column pipe and power cable for discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.13	99736.50	810857.75
2	24-97-d	Supply & Installation, testing and commissioning of complete Solar PV Generator including A-Grade Mono Crystalline PV Modules , Manual Tracker Mounting Structure and Foundation Civil work, Junction Boxes, Fuses, DC Breakers, Wiring complete upto Solar Pump Inerter, sized at a sizing factor of 1.50 capable of operating its intended solar pump having discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.13	259153.91	2106921.29
3	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,erssible pump: 3" (100 mm) Nominal Pipe Size (NPS), 3/16" thick 10' length	Mtr	79.25	2858.78	226558.32
4	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2	Mtr	81.31	684.62	55666.45
					Total in Rs. =	3200004
					Total In Million =	3.2000

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Contractor Signature.....

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Pabbi.

Sub Engineer

Bill Of Quantity

Name of Work:- ***PROVISION OF IRRIGATION / AUGMENTATION TUBEWELLS & LIFT IRRIGATION SCHEME AT REQUIRED PLACES IN KHYBER PAKHTUNKHWA ADP No. 2052/170597 dg: 2023-24.***

Sub Work:- ***Installation of Solar System for Irrigation tubewell No-4 shaidu in District Nowshera. (Solar work)***

(Discharge = 7000,iGPH) (T.D.Head = 230,ft) (Pump setting = 260,ft)

S.No	MRS 2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	24-93-d	Supply & Installation, testing and commissioning of Solar Submersible Pump (ISO - 9906 Certified) coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Solar Pump Controller, du/dt filter Complete in all accessories including cooling jackets, NRV, Pressure Gauge, Sluice valves (02 Nos) except column pipe and power cable for discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.13	99736.50	810857.75
2	24-97-d	Supply & Installation, testing and commissioning of complete Solar PV Generator including A-Grade Mono Crystalline PV Modules , Manual Tracker Mounting Structure and Foundation Civil work, Junction Boxes, Fuses, DC Breakers, Wiring complete upto Solar Pump Inerter, sized at a sizing factor of 1.50 capable of operating its intended solar pump having discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.13	259153.91	2106921.29
3	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,erssible pump: 3" (100 mm) Nominal Pipe Size (NPS), 3/16" thick 10' length	Mtr	79.25	2858.78	226558.32
4	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2	Mtr	81.31	684.62	55666.45
					Total in Rs. =	3200004
					Total In Million =	3.2000

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……..% Above / Below
Contractor Premium N.S.I……..% Above / Below

Contractor Signature.....

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Pabbi.

Sub Engineer

Bill Of Quantity

Name of Work:- **Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube Wells in Khyber Pakhtunkhwa ADP No. 2104/210455 Dg:2023-24.**

Sub Work:- **Construction of Solar Irrigation Tubewell at Village Saleh Khana in District Nowshera. (Solar work)**

(Discharge = 7000 iGPH) (T.D.Head = 245,ft) (Pump setting = 280,ft)

S.No	MRS-2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	24-93-d	Supply & Installation, testing and commissioning of Solar Submersible Pump (ISO - 9906 Certified) coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Solar Pump Controller, du/dt filter Complete in all accessories including cooling jackets, NRV, Pressure Gauge, Sluice valves (02 Nos) except column pipe and power cable for discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.66	99736.50	863718.09
2	24-97-d	Supply & Installation, testing and commissioning of complete Solar PV Generator including A-Grade Mono Crystalline PV Modules , Manual Tracker Mounting Structure and Foundation Civil work, Junction Boxes, Fuses, DC Breakers, Wiring complete upto Solar Pump Inerter, sized at a sizing factor of 1.50 capable of operating its intended solar pump having discharge greater than 3000 iGPH and output capacity greater than 6 WHP and up to 10 WHP (As per Approved Technical Specifications)	WHP	8.66	259153.91	2244272.86
3	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,erssible pump: 3" (100 mm) Nominal Pipe Size (NPS), 3/16" thick 10' length	Mtr	85.34	2858.78	243968.29
4	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2	Mtr	86.87	684.62	59472.94
5	03-25-b	Excavation in foundation of building, bridges etc complete in ordinary soil.	M^3	12.74	268.98	3426.81
6	06-03-b	Cement Concrete (brick/stone ballast, 1.5" to 2"/nullah shingle well graded and cleaned) in foundation & plinth (Ratio 1:4:8).	M^3	19.11	6633.94	126774.59
7	07-04-a-05	1st class brick work in foundation and plinth in Cement, sand mortar 1:6	M^3	40.61	11383.56	462286.37
8	06-26-a-02	Damp proof coarse of cement concrete 1:2:4 including bitumen coat 1 layer polythene & 2 coat bitumen 2" thick.	M^2	31.35	996.72	31247.17
9	07-05-a-05	Pacca brick workin Ground Floor & plinth in CSM 1:6.	M^3	70.35	12166.67	855925.23
10	11-09-a	Cement plaster (1:4) upto 20'height 1/2"thickness.	M^2	165.86	318.28	52789.92
11	11-18-b	Cement pointing struck joints on walls upto 20 ft height ratio 1:3.	M^2	180.35	350.10	63140.54
12	25-45-a	Supplying and Fixing 18 SWG MS Sheet Door with angle iron frame (1.5"x1.5"x1/8"), bolt, hinges, paint etc complete	M^2	4.09	8364.18	34209.50
13	06-07-a-03	RCC in roof slab, beam, column & other structural members, insitu or precast. Type C (1:2:4)	M^3	2.90	11062.45	32081.11
14	06-08-c	Supply & fabricate M.S. reinforcement for cement concrete(Hot rolled deformed bars Grade 40)	Tonne	0.26	235394.09	61202.46
15	N.S.I	P / fixing R.S joist size (4"x8") as per direction of Engineer incharge. (Market Rate)	Mtr	4.57	1200	5484.00
					Total in Rs. =	**5140000**
					Total In Million =	**5.1400**

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Contractor Signature……

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Pabbi.

Sub Engineer

Bill Of Quantity

Name of Work:- ***Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube Wells in Khyber Pakhtunkhwa ADP No. 2104/210455 Dg:2023-24.***

Sub Work:- ***Installation of Solar Bassed Irrigation Tubewells at Zangi Khel Naakaband C/O Zari Baz Khan in District Peshawar. (Solar work)***

(Discharge = 7000 iGPH) (T.D.Head = 250,ft) (Pump setting = 280,ft)

S.No	MRS 2022 2nd BI	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	312.82	957.23
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	12745.86	58503.50
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16226.00	34.99	567747.74
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16226.00	114.60	1859499.60
5	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	4.00	516.57	2066.28
6	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	950.40	1900.80
7	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	28.65	374.11	10718.25
8	26-01-g-05	Supply and Erection 1x16 sq.mm flexible copper cable.	M	36.57	891.54	32603.62
9	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	30.72	363.34	11161.80
10	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	22.27	244970.00
11	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
12	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	M	88.39	975.37	86212.95
13	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	449289.60	449289.60
14	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 3" (75 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	88.39	3428.06	303006.22
15	27-48	Rubber packing 1/32" to 1/16"thick.	No	32.00	116.05	3713.60
16	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	192.00	219.00	42048.00
17	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 3" i/d.	Each	2.00	709.61	1419.22
18	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	3500.00	3500.00
19	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18625.67	18625.67
					Total in Rs. =	3700000
					Total In Million =	3.7000

Note:- Any other item of work crop up during execution will be paid on MRS-2022 2nd Bi Annual. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I.....% Above / Below
Contractor Premium N.S.I.....% Above / Below

Contractor Signature.....

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Sub Engineer

Bill Of Quantity

Name of Work:- **Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube Wells in Khyber Pakhtunkhwa ADP No. 2104/210455 Dg:2023-24.**

Sub Work:- **Installation of Solar based Irrigation Tubewell at Telaband C/O Abdullah Khan in District Peshawar. (Solar work)**

(Discharge = 7000 iGPH) (T.D.Head = 250,ft) (Pump setting = 280,ft)

S.No	MRS 2022 2nd BI	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	312.82	957.23
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	12745.86	58503.50
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16226.00	34.99	567747.74
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16226.00	114.60	1859499.60
5	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	4.00	516.57	2066.28
6	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	950.40	1900.80
7	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	28.65	374.11	10718.25
8	26-01-g-05	Supply and Erection 1x16 sq.mm flexible copper cable.	M	36.57	891.54	32603.62
9	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	30.72	363.34	11161.80
10	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	22.27	244970.00
11	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
12	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	M	88.39	975.37	86212.95
13	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	449289.60	449289.60
14	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 3" (75 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	88.39	3428.06	303006.22
15	27-48	Rubber packing 1/32" to 1/16"thick.	No	32.00	116.05	3713.60
16	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	192.00	219.00	42048.00
17	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 3" i/d.	Each	2.00	709.61	1419.22
18	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	3500.00	3500.00
19	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18625.67	18625.67
					Total in Rs. =	3700000
					Total In Million =	3.7000

Note:- Any other item of work crop up during execution will be paid on MRS-2022 2nd Bi Annual. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Contractor Signature.....

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Sub Engineer

Bill Of Quantity

Name of Work:- ***Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube Wells in Khyber Pakhtunkhwa ADP No. 2104/210455 Dg:2023-24.***

Sub Work:- ***Installation of Solar based Irrigation Tubewell at Koi Khel C/O Mohsin Khan in District Peshawar. (Solar work)***

(Discharge = 7000 iGPH) (T.D.Head = 250,ft) (Pump setting = 280,ft)

S.No	MRS 2022 2nd BI	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	312.82	957.23
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	12745.86	58503.50
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16226.00	34.99	567747.74
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16226.00	114.60	1859499.60
5	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	4.00	516.57	2066.28
6	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	950.40	1900.80
7	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	28.65	374.11	10718.25
8	26-01-g-05	Supply and Erection 1x16 sq.mm flexible copper cable.	M	36.57	891.54	32603.62
9	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	30.72	363.34	11161.80
10	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	22.27	244970.00
11	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
12	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	M	88.39	975.37	86212.95
13	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	449289.60	449289.60
14	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 3" (75 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	88.39	3428.06	303006.22
15	27-48	Rubber packing 1/32" to 1/16"thick.	No	32.00	116.05	3713.60
16	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	192.00	219.00	42048.00
17	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 3" i/d.	Each	2.00	709.61	1419.22
18	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	3500.00	3500.00
19	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18625.67	18625.67
					Total in Rs. =	3700000
					Total In Million =	3.7000

Note:- Any other item of work crop up during execution will be paid on MRS-2022 2nd Bi Annual. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Contractor Signature……

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Sub Engineer

Bill Of Quantity

Name of Work:- **Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube Wells in Khyber Pakhtunkhwa ADP No. 2104/210455 Dg:2023-24.**

Sub Work:- **Installation of Solar based Irrigation Tubewell C/O Safdar Khan in District Peshawar. (Solar work)**

(Discharge = 7000 iGPH) (T.D.Head = 250,ft) (Pump setting = 280,ft)

S.No	MRS 2022 2nd BI	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	312.82	957.23
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	12745.86	58503.50
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16226.00	34.99	567747.74
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16226.00	114.60	1859499.60
5	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	4.00	516.57	2066.28
6	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	950.40	1900.80
7	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	28.65	374.11	10718.25
8	26-01-g-05	Supply and Erection 1x16 sq.mm flexible copper cable.	M	36.57	891.54	32603.62
9	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	30.72	363.34	11161.80
10	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	22.27	244970.00
11	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
12	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	M	88.39	975.37	86212.95
13	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	449289.60	449289.60
14	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 3" (75 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	88.39	3428.06	303006.22
15	27-48	Rubber packing 1/32" to 1/16"thick.	No	32.00	116.05	3713.60
16	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	192.00	219.00	42048.00
17	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 3" i/d.	Each	2.00	709.61	1419.22
18	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	3500.00	3500.00
19	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18625.67	18625.67
					Total in Rs. =	3700000
					Total In Million =	3.7000

Note:- Any other item of work crop up during execution will be paid on MRS-2022 2nd Bi Annual. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I.....% Above / Below
Contractor Premium N.S.I.....% Above / Below

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Contractor Signature.....

Sub Engineer

Bill Of Quantity

Name of Work:- ***Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube Wells in Khyber Pakhtunkhwa ADP No. 2104/210455 Dg:2023-24.***

Sub Work:- ***Installation of Solar based Irrigation Tubewell at sherkera C/O Rehman Said in District Peshawar. (Solar work)***

(Discharge = 12000,iGPH) (T.D.Head = 150,ft) (Pump setting = 250,ft)

S.No	MRS 2022 2nd BI	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.31	312.82	1035.43
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.97	12745.86	63346.92
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16560.00	34.99	579434.40
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16560.00	114.60	1897776.00
5	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	4.00	516.57	2066.28
6	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	950.40	1900.80
7	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	42.60	374.11	15937.09
8	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	0.00	574.93	0.00
8	26-01-g-05	Supply and Erection 1x16 sq.mm flexible copper cable.	M	34.14	891.54	30437.18
9	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	37.45	363.34	13607.08
10	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	22.27	244970.00
11	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
12	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	M	65.53	975.37	63916.00
13	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	449289.60	449289.60
14	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 4" (100 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	64.01	4317.49	276362.53
15	27-48	Rubber packing 1/32" to 1/16"thick.	No	24.00	116.05	2785.20
16	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	144.00	219.00	31536.00
17	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	709.61	1419.22
18	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	3500.00	3500.00
19	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18625.67	18625.67
					Total in Rs. =	3700001
					Total In Million =	3.7000

Note:- Any other item of work crop up during execution will be paid on MRS-2022 2nd Bi Annual. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Contractor Signature……

Sub Engineer

Bill Of Quantity

Name of Work:- **Construction of Flood Protection works, Irrigation Channels and Ponds and Installation of Solar Irrigation Tube Wells in Khyber Pakhtunkhwa ADP No. 2104/210455 Dg:2023-24.**

Sub Work:- **Installation of Solar based Irrigation Tubewell C/O Iqraz Ali in District Peshawar. (Solar work)**

(Discharge = 7000 iGPH) (T.D.Head = 250,ft) (Pump setting = 280,ft)

S.No	MRS 2022 2nd BI	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	312.82	957.23
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	12745.86	58503.50
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16226.00	34.99	567747.74
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16226.00	114.60	1859499.60
5	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	4.00	516.57	2066.28
6	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	950.40	1900.80
7	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	28.65	374.11	10718.25
8	26-01-g-05	Supply and Erection 1x16 sq.mm flexible copper cable.	M	36.57	891.54	32603.62
9	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	30.72	363.34	11161.80
10	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	22.27	244970.00
11	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
12	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	M	88.39	975.37	86212.95
13	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	449289.60	449289.60
14	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 3" (75 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	88.39	3428.06	303006.22
15	27-48	Rubber packing 1/32" to 1/16"thick.	No	32.00	116.05	3713.60
16	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	192.00	219.00	42048.00
17	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 3" i/d.	Each	2.00	709.61	1419.22
18	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	3500.00	3500.00
19	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18625.67	18625.67
					Total in Rs. =	3700000
					Total In Million =	3.7000

Note:- Any other item of work crop up during execution will be paid on MRS-2022 2nd Bi Annual. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I.....% Above / Below
Contractor Premium N.S.I.....% Above / Below

Contractor Signature.....

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Sub Engineer

Bill Of Quantity

Name of Work:- **REHABILITATION / IMPROVEMENT CANALS & OTHER IRRIGATION INFRASTRUCTURE IN KHYBER PAKHTUNKHWA ADP NO. 2112/210665 DG: 2023-24.**

Sub Work:- **Solarization of Irrigation Tubewell TKM-03 in District Peshawar. (Solar work)**

(Discharge = 7300,iGPH) (T.D.Head = 250,ft) (Pump setting = 330,ft)

S.No	MRS-2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.57	268.98	960.26
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	5.35	9299.67	49753.23
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	19520.00	22.19	433148.80
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	19520.00	104.17	2033398.40
5	26-01-h-01	Supply and Erection MC4 connector (TUV Approved).	Watt	14.00	342.92	4800.88
6	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	2.00	495.14	990.28
7	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (20 to 30Amp).	Each	6.00	1500.00	9000.00
8	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (60 to 65Amp).	Each	1.00	6000.00	6000.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	Mtr	91.44	300.28	27457.60
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	Mtr	91.44	460.93	42147.44
11	26-01-g-05	Supply and Erection 1x16 sq.mm copper cable.	Mtr	76.20	714.03	54409.09
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	Mtr	129.11	363.34	46910.83
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	15000.00	20.39	305850.00
14	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
15	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	Mtr	106.68	684.62	73035.26
16	24-50-a-02	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like (Dry run protection , surge protection) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	416067.41	416067.41
17	24-56-b	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 3" (75 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	Mtr	103.63	2858.78	296255.37
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	38.00	106.51	4047.38
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	228.00	219.00	49932.00
20	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 3" i/d.	Each	2.00	670.95	1341.90
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	5000.00	5000.00
22	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18086.96	18086.96
					Total in Rs. =	**3880649**
					Total In Million =	**3.8806**

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Contractor Signature……

Sub Engineer

Bill Of Quantity

Name of Work:- **REHABILITATION / IMPROVEMENT CANALS & OTHER IRRIGATION INFRASTRUCTURE IN KHYBER PAKHTUNKHWA ADP NO. 2112/210665 DG: 2023-24.**

Sub Work:- **Solarization of Irrigation Tubewell SKA-02 in District Peshawar. (Solar work)**

(Discharge = 12000,iGPH) (T.D.Head = 120,ft) (Pump setting = 160,ft)

S.No	MRS-2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	268.98	823.08
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	9299.67	42685.49
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16350.00	22.19	362806.50
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16350.00	104.17	1703179.50
5	26-01-h-01	Supply and Erection MC4 connector (TUV Approved).	Watt	12.00	342.92	4115.04
6	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	2.00	495.14	990.28
7	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (20 to 30Amp).	Each	6.00	1500.00	9000.00
8	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (60 to 65Amp).	Each	1.00	6000.00	6000.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	Mtr	54.86	300.28	16473.36
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	Mtr	48.77	460.93	22479.56
11	26-01-g-05	Supply and Erection 1x16 sq.mm copper cable.	Mtr	23.70	714.03	16922.51
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	Mtr	38.16	363.34	13865.05
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	20.39	224290.00
14	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
15	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	Mtr	53.34	684.62	36517.63
16	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like (Dry run protection , surge protection) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 12.5 HP	Job	1.00	374408.00	374408.00
17	24-56-a	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 4" (100 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	Mtr	51.82	3570.32	185013.98
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	21.00	106.51	2236.71
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	126.00	219.00	27594.00
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	697.16	1394.32
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	5000.00	5000.00
22	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18086.96	18086.96
					Total in Rs. =	**3075938**
					Total In Million =	**3.0759**

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Contractor Signature……

Sub Engineer

Bill Of Quantity

Name of Work:- **REHABILITATION / IMPROVEMENT CANALS & OTHER IRRIGATION INFRASTRUCTURE IN KHYBER PAKHTUNKHWA ADP NO. 2112/210665 DG: 2023-24.**

Sub Work:- **Solarization of Irrigation Tubewell SKA-07 in District Peshawar. (Solar work)**

(Discharge = 12000,iGPH) (T.D.Head = 120,ft) (Pump setting = 160,ft)

S.No	MRS-2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	268.98	823.08
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	9299.67	42685.49
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16350.00	22.19	362806.50
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16350.00	104.17	1703179.50
5	26-01-h-01	Supply and Erection MC4 connector (TUV Approved).	Watt	12.00	342.92	4115.04
6	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	2.00	495.14	990.28
7	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (20 to 30Amp).	Each	6.00	1500.00	9000.00
8	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (60 to 65Amp).	Each	1.00	6000.00	6000.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	Mtr	54.86	300.28	16473.36
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	Mtr	48.77	460.93	22479.56
11	26-01-g-05	Supply and Erection 1x16 sq.mm copper cable.	Mtr	23.70	714.03	16922.51
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	Mtr	38.16	363.34	13865.05
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	20.39	224290.00
14	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
15	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	Mtr	53.34	684.62	36517.63
16	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like (Dry run protection , surge protection) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 12.5 HP	Job	1.00	374408.00	374408.00
17	24-56-a	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 4" (100 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	Mtr	51.82	3570.32	185013.98
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	21.00	106.51	2236.71
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	126.00	219.00	27594.00
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	697.16	1394.32
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	5000.00	5000.00
22	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18086.96	18086.96
					Total in Rs. =	**3075938**
					Total In Million =	**3.0759**

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I.....% Above / Below
Contractor Premium N.S.I.....% Above / Below

Contractor Signature.....

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Sub Engineer

Bill Of Quantity

Name of Work:- **REHABILITATION / IMPROVEMENT CANALS & OTHER IRRIGATION INFRASTRUCTURE IN KHYBER PAKHTUNKHWA ADP NO. 2112/210665 DG: 2023-24.**

Sub Work:- **Solarization of Irrigation Tubewell SKA-09 in District Peshawar. (Solar work)**

(Discharge = 12000,iGPH) (T.D.Head = 120,ft) (Pump setting = 160,ft)

S.No	MRS-2022 2nd Bi	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.06	268.98	823.08
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	4.59	9299.67	42685.49
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	16350.00	22.19	362806.50
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	16350.00	104.17	1703179.50
5	26-01-h-01	Supply and Erection MC4 connector (TUV Approved).	Watt	12.00	342.92	4115.04
6	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	2.00	495.14	990.28
7	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (20 to 30Amp).	Each	6.00	1500.00	9000.00
8	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (60 to 65Amp).	Each	1.00	6000.00	6000.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	Mtr	54.86	300.28	16473.36
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	Mtr	48.77	460.93	22479.56
11	26-01-g-05	Supply and Erection 1x16 sq.mm copper cable.	Mtr	23.70	714.03	16922.51
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	Mtr	38.16	363.34	13865.05
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	11000.00	20.39	224290.00
14	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
15	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	Mtr	53.34	684.62	36517.63
16	N.S.I	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like (Dry run protection , surge protection) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 12.5 HP	Job	1.00	374408.00	374408.00
17	24-56-a	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 4" (100 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	Mtr	51.82	3570.32	185013.98
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	21.00	106.51	2236.71
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	126.00	219.00	27594.00
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	697.16	1394.32
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	5000.00	5000.00
22	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18086.96	18086.96
					Total in Rs. =	**3075938**
					Total In Million =	**3.0759**

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I……% Above / Below
Contractor Premium N.S.I……% Above / Below

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Contractor Signature……

Sub Engineer

Bill Of Quantity

Name of Work:- **REHABILITATION / IMPROVEMENT CANALS & OTHER IRRIGATION INFRASTRUCTURE IN KHYBER PAKHTUNKHWA ADP NO. 2112/210665 DG: 2023-24.**

Sub Work:- **Solarization of Irrigation Tubewell NWB-01 in District Peshawar. (Solar work)**

(Discharge = 12000,iGPH) (T.D.Head = 150,ft) (Pump setting = 200,ft)

S.No	MRS-2022	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M^3	3.57	268.98	960.26
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M3	5.35	9299.67	49753.23
3	26-01-m-01	Supply and Erection of hot dipped (80 microns Average) galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG / 4.06 mm Angle.	Watt	20740.00	22.19	460220.60
4	26-01-d-01	Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade (per Watt) (As per Approved Specifications)	Watt	20740.00	104.17	2160485.80
5	26-01-h-01	Supply and Erection MC4 connector (TUV Approved).	Watt	14.00	342.92	4800.88
6	15-09-e	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 10"x12".	Each	2.00	495.14	990.28
7	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (20 to 30Amp).	Each	6.00	1500.00	9000.00
8	N.S.I	Supply and Erection single pole imported DC auto circuit breaker (60 to 65Amp).	Each	1.00	6000.00	6000.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	Mtr	100.58	300.28	30202.16
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	Mtr	60.96	460.93	28098.29
11	26-01-g-05	Supply and Erection 1x16 sq.mm copper cable.	Mtr	60.96	714.03	43527.27
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	Mtr	80.49	363.34	29245.24
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	15000.00	20.39	305850.00
14	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	2055.60	2055.60
15	24-50-c-01	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x10 mm2.	Mtr	65.53	684.62	44863.15
16	24-50-a-02	Supply & Installation, testing and commissioning of Submersible Pump (ISO – 9906 Certified) Coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like (Dry run protection , surge protection) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe & power cable with appropriate Head & Discharge : 15 HP,	Job	1.00	416067.41	416067.41
17	24-56-a	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 4" (100 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	Mtr	64.01	3570.32	228536.18
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	25.00	106.51	2662.75
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	150.00	219.00	32850.00
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	697.16	1394.32
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangment holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	5000.00	5000.00
22	15-53	Special earthing of iron/metal clad switches etc with copper wire No. 8 SWG in GI pipe 1/2" dia.	No	1.00	18086.96	18086.96
					Total in Rs. =	**3880650**
					Total In Million =	**3.8807**

Note:- Any other item of work crop up during execution will be paid on MRS-2022. The Quantities are liable to be increased or decreased during execution.

Contractor Premium S.I.....% Above / Below
Contractor Premium N.S.I.....% Above / Below

Contractor Signature.....

Sub Divisional Officer,
Tubewell Irrigation Sub Division,
Peshawar.

Sub Engineer

SYSTEM DESIGN FOR SOLAR BASED IRRIGATION TUBE WELL IN DISTRICT PESHAWAR & NOWSHERA.

Sr. #	Scheme Name	Discharge (iGPH)	Head (ft)	Pump Setting (ft)	Pump Efficiency (%) (70% -- 80%)	Motor Efficiency (%)	Water Horse Power (WHP) / Hydraulic Power	Shaft Power (Pump HP)	BREAK HOURSE POWER (BHP with 20% safety factor)	Say Motor Horse Power	Motor Basic Input Power (W)	PV Derating Factor (%) (40% -- 90%)	Total PV Power (Watt) with Safety Factor	PV Generator Peak Power (Watts)				Motor Make, Model & HP	Pump Make & Model	Inverter Make, & K.watt	PV Module Make & Watt
														No of String in Parallel	No of Panel PV Module in Series	Single PV Module Size (Watts)	Total PV Generation				
1	Installation of Solar System for Irrigation tubewell No-2 shaidu in District Nowshera.	7000	230	260																	
2	Installation of Solar System for Irrigation tubewell No-3 shaidu in District Nowshera.	7000	230	260																	
3	Installation of Solar System for Irrigation tubewell No-4 shaidu in District Nowshera.	7000	230	260																	
4	Construction of Solar Irrigation Tubewell at Village Saleh Khana in District Nowshera.	7000	240	280																	
5	Installation of Solar Bassed Irrigation Tubewells at Zangi Khel Naakaband C/O Zari Baz Khan in District Peshawar.	7000	250	280																	
6	Installation of Solar based Irrigation Tubewell at Telaband C/O Abdullah Khan in District Peshawar.	7000	250	280																	

7	Installation of Solar based Irrigation Tubewell at Koi Khel C/O Mohsin Khan in District Peshawar.	7000	250	280																		
8	Installation of Solar based Irrigation Tubewell C/O Safdar Khan in District Peshawar.	7000	250	280																		
9	Installation of Solar based Irrigation Tubewell at sherkera C/O Rehman Said in District Peshawar.	12000	150	250																		
10	Installation of Solar based Irrigation Tubewell C/O Iqraz Ali in District Peshawar.	7000	250	280																		
11	Solarization of Irrigation Tubewell TKM-03 in District Peshawar	7000	250	330																		
12	Solarization of Irrigation Tubewell SKA-02 in District Peshawar	12000	120	160																		
13	Solarization of Irrigation Tubewell SKA-07 in District Peshawar	12000	120	160																		
14	Solarization of Irrigation Tubewell SKA-09 in District Peshawar	12000	120	160																		
15	Solarization of Irrigation Tubewell NWB-01 in District Peshawar	12000	150	200																		