

GOVERNMENT OF KHYBER PAKHTUNKHWA



IRRIGATION DEPARTMENT

(FINANCIAL BID)
(BIDDING DOCUMENTS)
(BILL OF QUANTITIES)

Name Of Scheme: - Construction of Flood Protection Works, Irrigation Channels and Installation of Solar Tube Wells in Khyber Pakhtunkhwa on need basis. (ADP No. 2212/180617 dg: 2021-22)

Name Of Scheme: - Construction/Installation of Augmentation/Irrigation Tubewells in District Charsadda.(ADP No. 2177/160276 dg: 2021-22)

Name Of Scheme: - Provision of Irrigation/Augmentation Tube Wells and Lift Irrigation Schemes at required places in Khyber Pakhtunkhwa. (ADP No. 2205/170597 dg: 2021-22)

Name Of Scheme: - Installation of Solar Augmentation/Irrigation Tube Wells in Khyber Pakhtunkhwa. (ADP No. 2191/160513 dg: 2021-22)



*Executive Engineer
Tube Well Irrigation Division
Peshawar*



**GOVERNMENT OF KHYBER PAKHTUNKHWA,
KHYBER PAKHTUNKHWA
PUBLIC PROCUREMENT REGULATORY AUTHORITY**

Peshawar, the February 10, 2021

NOTIFICATION

S.R.O. (10)/ Vol: 1-18/2020-21: 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 in its meeting held on January 18, 2021 has been pleased to make the following regulation, namely: -

1. Short title and commencement. - (i) This regulation may be called the Khyber Pakhtunkhwa Public Procurement Regulation No. X, 2021.

(ii) This shall come into force at once.

2. Adoption of PEC's Standard Bidding Document. - All procuring entities shall adopt Standard Form of Bidding Documents for Procurement of Works (Electrical & Mechanical) developed by Pakistan Engineering Council for Procurement of Works (Electrical & Mechanical) and other similar nature procurements in Khyber Pakhtunkhwa.

3. For the purpose to ensure tax transparency in public procurements the Authority has approved a template Bill of Quantities (BOQ) based on bifurcation of taxable and tax exempted items (**Annex-A**). The procuring entities in pursuance of Section 5 (b) of the KPPRA Act 2012 are directed to incorporate the same in their Bid Solicitation Documents, both manual as well as through electronic bidding systems while carrying out procurement of Works (Electrical & Mechanical).

**-SD-
Managing Director
KPPRA**

ENDST: No. As above:

Peshawar, the February 10, 2021

Copy forwarded to:-

1. Senior Member Board of Revenue, Khyber Pakhtunkhwa.
2. Chief Commissioner, Inland Revenue Regional Tax office Peshawar
3. All Administrative Secretaries in Khyber Pakhtunkhwa with the request to circulate the same to downstream formations.
4. Principal Secretary to Chief Minister, Khyber Pakhtunkhwa, Peshawar.
5. Inspector General of Police, Khyber Pakhtunkhwa.
6. Secretary Provincial Assembly, Khyber Pakhtunkhwa.
7. Accountant General, Khyber Pakhtunkhwa.
8. Registrar, Peshawar High Court, Peshawar.
9. All Commissioners and Deputy Commissioners in Khyber Pakhtunkhwa.
10. Director General, Khyber Pakhtunkhwa Revenue Authority.
11. PSO to Chief Secretary, Govt. of Khyber Pakhtunkhwa.
12. All Heads of Autonomous/Semi-Autonomous Bodies in Khyber Pakhtunkhwa.
13. Director, Treasuries & Accounts with the request to circulate the same to all DAOs & Treasuries Officers in Khyber Pakhtunkhwa.
14. Manager, Stationery and Printing Press Khyber Pakhtunkhwa, for printing in the official gazette.

**SANA ULLAH
Assistant Director (M&E) KPPRA**

ANNEX-A

BILL OF QUANTITIES FOR SOLAR ENERGY BASED SCHEMES/ PROJECTS/WORKS ETC				
Name of Work:				
S. No.	Item Description	Unit Rate (Rs.) including Installation Price (A)	Quantity (B)	Total Amount (Rs.) (AXB)
1.				
2.				
3.				
4. and so on				
TOTAL AMOUNT (RS.):				
Note: - Following information is to be provided by the bidder, otherwise bid shall be declared as non-responsive. (Must be duly supported by evidence of exemption.)				
Amount Exempted from Federal GST (PKR)				
Amount Chargeable to % Federal (FBR) Sales Tax on Goods (PKR)				
Federal (FBR) Sales Tax on Goods @ % (PKR)				
Amount Chargeable to % Provincial (KRPA) Sales Tax on Services (PKR)				
Provincial (KPRA) Sales Tax on Services @ % (PKR)				
Any other applicable Tax				
TOTAL AMOUNT (Rs.):				

Engineer Incharge/Authorized Person
with Seal

Contractor
With Seal



GOVERNMENT OF KHYBER PAKHTUNKHWA
IRRIGATION DEPARTMENT
(DEVELOPMENT SECTION)

No. SO (Dev)/Irr/2-140/Enlistment/2021

Dated Peshawar, the 02-02-2022

To

1. The Chief Engineer (North)
Irrigation Department,
Peshawar
2. The Chief Engineer (South)
Irrigation Department,
Peshawar
3. The Chief Engineer (Merged)
Irrigation Department,
Peshawar
4. The Director General (Small Dams),
Irrigation Department,
Peshawar.
5. The all Project Directors,
Irrigation Department.
6. All Superintending Engineer's,
Irrigation Department, KPK.

Subject:

**GUIDELINES FOR PROCUREMENT OF SOLAR ENERGY BASED
PUMPING AND OTHER PROJECTS**

I am directed to refer to the subject noted above and to convey following guidelines for strict compliance to ensure transparency in procurement of solar energy base pumping projects as per KPPRA laid down criteria.

1. Solar panels and related components dedicatedly used for promotion of renewable energy were exempted from sales tax until recent Finance (Supplementary) Act, 2022, wherein the said exemption has been withdrawn and now these items are charged to 17% GST. In this context it is directed that:
 - a. Cost Estimates for the upcoming projects shall include this additional cost.
 - b. The BoQ for procurement of solar pumping and other E&M projects must clearly mention the applicable General Sales Tax, in light of KPPRA notification vide S.R.O. (10)/ Vol: 1-18/2020-21 dated 10/02/2021.
 - c. The procuring entity shall clearly specify the quantum of taxes to be deducted from the bidders in the Bid Evaluation Report (BER) and forward the same to Web Developer Computer Cell Irrigation Department for posting on website.
 - d. The Work Order so issued shall also clearly mention GST and other applicable taxes.
 - e. Proper Sales Tax Invoice shall be sought from contractor at the time of payment; 1/5th of the tax amount shall be deducted from contractor bills and 4/5th of the tax amount contractor shall be deposited to FBR against Irrigation department's free tax number

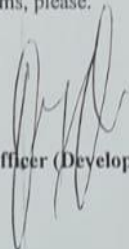


GOVERNMENT OF KHYBER PAKHTUNKHWA
IRRIGATION DEPARTMENT
(DEVELOPMENT SECTION)

(FTN) e.g 9050101-2. Final bill payment and release of security be made only after verification of tax deposits from the local tax office.

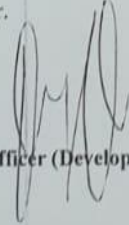
2. The tenders for solar pumping systems and other E&M procurements, shall be solicited on PEC Standard form of Bidding Documents for Procurement of Works (Electrical & Mechanical), in light of KPPRA Notification vide S.R.O. (10)/ Vol: 1-18/2020-21 dated 10/02/2021. Likewise, the contract agreement shall also be framed on PEC standard format for Electrical & Mechanical Works.
3. The procuring entities must ensure provision of the following documents from prospective bidders (1) **Income Tax Returns**, (2) **Sales Tax Returns (both federal and provincial)**, and (3) **Audited balance Sheets**, for the last five years, at bidding/ pre-qualification stage and the annual turnover should be ascertained from Audited Balance Sheets as well as Income Tax Returns, and Sales Tax Returns. If any inconsistency found in these three documents, the bidder may be straight away rejected and reported to RTO/ relevant offices for onward punitive action.
4. In E-bidding system bill of quantities will be time bound.
5. The Executive Engineer's must ensure the availability of funds prior to tendering and shall include in their bid solicitation documents the timeline for availability of funds and payment to contractor. The bid validity period must account for the said timelines of availability of funds, in order to avoid contractual complications on later stages.
6. The procurement of solar pumps shall be carried out on Package basis containing multiple pumps. The packages can be formed on division basis as approved at PC-1 stage, in light of Rule 31 of KPPRA Rules, 2014. This practice will lower cost through 'economy of scale', will lead to uniformity of Products and Works and hence better after sales services. Such bulk purchase shall allow for better adjustment of savings/ enhancements etc. and will have better check & balance and sharing of responsibilities, by involving higher offices in purview of delegation of financial powers.

Strict adherence to above may be observed in all tenders for solar pumping systems, please.


Section Officer (Development)

Copy forwarded for information to the:-

1. PS to Secretary Irrigation Department, Peshawar
2. PA to Deputy Secretary (Tech) Irrigation Department, Peshawar.
3. PA to Director (PMC) Irrigation Department, Peshawar.


Section Officer (Development)

GOVERNMENT OF KHYBER PAKHTUNKHWA

OFFICE OF THE EXECUTIVE ENGINEER
TUBEWELLS IRRIGATION DIVISION PESHAWAR

NOTICE INVITING E-BIDDING

Irrigation Department Government of Khyber Pakhtunkhwa intends to Electronic Bids on the basis of single stage Two envelope systems from the eligible Government Contractors / Firms enlisted with the Irrigation Department who has renewed their enlistment and valid P.E.C license in the relevant category and code EE-11, CE-09 & CE-10 for the year 2021-22 for the following works.

Construction of Flood Protection Works, Irrigation Channels and Installation of Solar Tube Wells in KPK on need basis ADP No. 2359/180617 during 2021-22.			
		E/Cost (In Million)	E/Money + S/duty
1	i. Installation of Solar Based Irrigation T/well in UC-74 Khatki (Gul Zada) District Peshawar (Solar system with Pumping Machinery) ii. Installation of Solar Based Irrigation T/well in UC-81 Sufaid Dheri (Azmat Khan) District Peshawar. (Solar system with Pumping Machinery)	5.738	123760/-
2	i. Installation of Solar Based Irrigation T/well in UC Dibandli (Tangl Maria) Abbas Khan District Charsadda (Solar system with Pumping Machinery) ii. Installation of Solar based Irrigation T/well in UC Umarzai Aizal Basheer Khan District Charsadda (Solar system with Pumping Machinery) iii. Installation of Solar Based Irrigation T/well In UC Haleem Abad (Malra Tarangzal) Fazal-e-Mansoor Khan District Charsadda. iv. Installation of Solar Based Irrigation T/well In UC Shiekh Zahid Jan District Charsadda (Solar system with Pumping Machinery) Iv. Installation of Solar Based Irrigation T/well in Shiekh UC Aftab Sikandar District Charsadda (Solar system with Pumping Machinery)	13.112	306240/-
3	Construction of solar Irrigation Tubewell and Solarization of existing tubewell In District Peshawar. i. Solarization of New Irrigation Tubewell UC Badaber Hurizal C/O Tehsil Ullah District Peshawar (Solar system with Pumping Machinery) ii. Solarization of New Irrigation Tubewell UC Badaber Hurizal C/O Zareen Khan District Peshawar iii. Solarization of New Irrigation Tubewell UC Badaber Hurizal C/O Hameed Ullah District Peshawar (Solar system with Pumping Machinery) iv. Solarization of New Irrigation Tubewell UC Aza Khel 62 C/O Shah Jahan District Peshawar (Solar system with Pumping Machinery)	13.782	315648/-
4	Construction & Solarization of New Irrigation T/well in UC Mashogagar C/O Sami ud Din District Peshawar	2.666	57320/-
5	Construction of 1 No. New Solar Irrigation T/well in UC Adezal PK-71 c/o Haji Hazrat Ali District Peshawar (Solar system with Pumping Machinery)	4.16	92000/-
II Construction/Installation of Augmentation Irrigation Tube wells in District Charsadda ADP No.2177/160276 dg:2021-22			
	i. Installation of solar based Irrigation Tubewell No. 17 at Pk-21 District Charsadda. (Solar system with Pumping Machinery) ii. Installation of solar based Irrigation Tubewell No.27 District Charsadda. (Solar system with Pumping Machinery)	6.0	92000/-
III Provision of Irrigation /Augmentation Tube well Is and Lift Irrigation Schemes at required places in Khyber Pakhtunkhwa. ADP No.2205/170597 dg: 2021-22			
	Installation of solar based Irrigation Tubewell at Gul BellaShareef Khana c/o syed Ahsan Mukhtiar Ashraf District Peshawar. (Solar system with Pumping Machinery)	3.20	68000/-
IV Installation of solar Augmentation Tubewells in Khyber Pakhtunkhwa. ADP No. 2191/160513 dg:2021-22			
	Installation of solar based Irrigation Tubewell at Khan Rahim Kalley UC Bazid Khel Pk-06 District Peshawar (Solar system with Pumping Machinery).	3.20	68000/-

TERMS & CONDITIONS

1. The last date & time will be on 16-02-2022 at 12:00 PM and will be Technical opened on same date at 2:00 PM. 2 All bidders are required to have valid registration with Khyber Pakhtunkhwa Revenue Authority established under the Khyber Pakhtunkhwa Finance Act, 2018 (Khyber Pakhtunkhwa Act XXI of 2013). 3. Technical evaluation will be carried out as per criteria given in standard bidding documents Interested contractors/Firms are required to submit technical proposal (one-original, one-copy) in sealed envelope and the financial proposal in separate envelope along with sales tax bifurcation details, 4. Date of Financial evaluation will be communicated later to the qualified firms after technical evaluation. 5. All the prevailing KPPRA Act Rules and other Government Notification issued will be applicable S.R.O (13)/Vol: 1-21-2021-22 dated 15/09/2021. 6. The employer has the authority to reject any or all Bids assigning cogent reasons. 7. Contractors /bidders would have to include the BOQ showing the Sales Tax bifurcation details (duly filled) (received vide KPPRA Notification No.S.R.O (10)vol: 1-18/2020, dated 10/02/2021) provided in the bidding documents along with Call Deposit & others requisite documents in the Financial Bid Envelope. In case of its non submission, bids would be considered as non-Responsive. 8. All other terms & conditions are provided in the standard Bidding Document which can be downloaded from the official website of Irrigation department, (www.irrigation.gkp.pk) and KEPPRA (www.kppra.gov.pk). 9. The matter pertaining to additional security in case of abnormally low bids would be treated as per KPPRA notification No. S.R.O (13)/Vol: 1-21/2021-22, dated 15-12-2021. 10. The bidder shall submit through courier 02% bid security sealed in envelop of the estimated cost in the shape of deposit at call (Original) before closing date and time. 11. The contractors quoting their bids up to a limit of 15% below Engineer estimate shall submit bid security to the extent of 2% of Engineer Estimate only. As per Notification No. S.R.O (13)/Vol: 1-21/2021-22, Dated Peshawar, the September 15th -2021/5335-48. 12. The contractors quoting their bids more than 15% below an Engineer's Estimate shall submit along with their bids and Additional Security to the extent of their bid/rates more than 15% below an engineer estimate in the form of percentage. 13. In case the bidder quotes more than 15% below the Engineer Estimate and the bid is not accompanied by the Additional Security then the bid shall be considered as non-responsive and the 2nd lowest bidder and so on will be considered accordingly. 14. In case a contractor quotes more than 30% below an Engineer Estimate, the procuring entity shall, in addition to additional security, require the contractor to produce detailed rate analysis of his bid price in relation to any or all the items of bill of quantities, scope of work, allocation of risks and responsibilities and/or any other requirements of the bid solicitation document. The contract shall be awarded to the lowest evaluated bidder who has satisfied the procuring entity on rate analysis. However, if the procuring entity determines that the contractor has failed to demonstrate its capability to execute the contract at the offered price, the matter shall be referred to the next higher authority for rejection of the bid on the basis of being financially unviable. 15. All the interested eligible bidders shall deposit their Call Deposit Receipt (CDR) in the name of procuring entity (undersigned) Five (5) days prior to the closing date of bid submission as per Notification No. Chief/INF/P&D /003- 02/2022/01 dated 3/1/2022. Bids of only those bidders would be opened whose security deposit has been credited to official account of the procurement entity before opening of bid/s. In case, no security deposit is credited the bid shall be considered non-responsive and shall summarily be rejected.

INF(P) 484 / 22

Take Special Care of Special Persons

ہمارا ایمان | ان کا نسی پاکستان
Our Faith, Corruption Free Pakistan

Executive Engineer

www.khyberpakhtunkhwa.gov.pk

روزنامہ سچ پشاور ایبٹ آباد 28 جنوری 2022ء

FORM OF BID
(LETTER OF OFFER)

Bid Reference No.....

To

***EXECUTIVE ENGINEER
TUBE WELLS IRRIGATION DIVISION
PESHAWAR***

- 1. Having examined the Bidding Documents including Instructions to Bidders, Conditions of Contract, Specifications, Drawings, Schedule of Prices and Addenda Nos..... dated.....for the execution of the above-named Works, we, the undersigned, offer to execute and complete such works and remedy any defects therein in conformity with the conditions of contract. Specifications, drawings, bill of quantities and addenda for the sum of _____) or such other sum as may be ascertained in accordance with the said conditions.*
- 2. We understand that all the appendices / documents attached here to 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 Rupees _____).
(Rs. _____/-) drawn in your favor or made payable to you and valid for a period of _____ days beginning from the date bids are opened.*
- 4. We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in bidding documents.*
- 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 do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other Bidder for the Works.*
8. *We understand that you are not bound to accept the lowest or any Bid you may receive.*

Dated this _____ day of _____ 2021

Signature _____

in the capacity of

Duly authorized to sign bids for and on behalf of

(Name of bidder in Block Capitals)
(Seal)

Address: _____

Witness: _____

Signature: _____

Name: _____

Address: _____

Occupation: _____

Bill of Quantity

Name of Work: Construction of flood protection works, irrigation channels and installation of solar tube wells in KPK on need basis. ADP No.2212/180617 Dg: 2021-22

Sub Work: I. Installation of Solar Based Irrigation T/well in UC-74 Khatki (Gul Zada) District Peshawar. (Solar System with pumping machinery)
II. Installation of Solar Based Irrigation T/well in UC-81 Sufaid Dheri (Azmat Khan) District Peshawar. (Solar System with pumping machinery)

I.(Gulzada Site)(Discharge = 13800 IGPH) (T.D.Head = 70 ft) (Pump setting = 100 ft).

II.(Azmat Khan Site)(Discharge = 13500 IGPH) (T.D.Head = 130 ft) (Pump setting = 180 ft).

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M ³	5.80	243.91	1414.68
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	7.14	7783.07	55571.12
3	26-01-q	Supply and Erection of Solar Auto Tracker for 3.6 KW installation	No	7.00	268,911.00	1882377.00
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	27975.00	72.58	2030425.50
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4" deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	9.00	526.43	4737.87
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	14.00	934.80	13087.20
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	4.00	934.80	3739.20
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	2.00	4053.50	8107.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPPE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	152.40	228.30	34792.92
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	121.92	349.84	42652.49
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	73.15	541.14	39584.39
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	170.83	357.37	61049.52
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	22300	16.95	377985.00
14	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 mm ² .	M	94.49	635.75	60072.02
15	24-50-a-01	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 and power cable with appropriate Head and Discharge : 10 HP,	Job	1.00	327088.50	327088.50

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
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 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 and power cable with appropriate Head and Discharge : 15 HP,	Job	1.00	408853.00	408853.00
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.	M	91.44	2901.66	265327.79
18	27-48	Rubber packing 1/32" to 1/16" thick.	No	36.00	98.16	3533.76
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	288.00	212.86	61303.68
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	4.00	574.38	2297.52
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangement holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	2.00	2000.00	4000.00
22	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	2.00	25000.00	50000.00
Total in Rs. =						5738000
Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).						
Amount exempted from Federal GST (PKR):						
Amount chargeable to ____% Federal (FBR) sales tax on goods (PKR):						
Federal (FBR) sales tax on goods @ ____% (PKR):						
Amount chargeable to ____% Provincial (KPPRA) sales tax on services (PKR):						
Provincial (KPPRA) sales tax on services @ ____% (PKR):						
Any other applicable Tax:						
Total in Rs. =						

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020. 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,
Tubewells Irrigation Sub Division,
Peshawar.

Sub Engineer,

Bill of Quantity

Name of Work:- Construction of flood protection works, irrigation channels and installation of solar tube wells in KPK on need basis. ADP No.2212/180617 Dg: 2021-22

Sub Work:- (I) Installation of Solar Based Irrigation T/well in UC Dobandi (Tangi Maria) Abbas Khan District Charsadda.(Solar System with pumping machinery).
 (II) Installation of Solar Based Irrigation T/well in UC Umarzai Afzal Basheer Khan District Charsadda.(Solar System with pumping machinery).
 (III) Installation of Solar Based Irrigation T/well in UC Haleem Abad (Maira Tarangzai) Fazal-e-Mansoor Khan District Charsadda.(Solar System with pumping machinery).
 (IV) Installation of Solar Based Irrigation T/well in UC Shiekh Zahid Jan District Charsadda.(Solar System with pumping machinery).
 (V) Installation of Solar Based Irrigation T/well in UC Shiekh Aftab Sikandar District Charsadda.(Solar System with pumping machinery).

I.(Abbas Khan Site)(Discharge = 13500 IGPH) (T.D.Head = 130 ft) (Pump setting = 180 ft).

II.(Afzal Basheer Site)(Discharge = 10500 IGPH) (T.D.Head = 100 ft) (Pump setting = 140 ft).

III.(Fazal-e-Mansoor Site)(Discharge = 10500 IGPH) (T.D.Head = 100 ft) (Pump setting = 140 ft).

IV.(Zahid Jan Site)(Discharge = 10500 IGPH) (T.D.Head = 100 ft) (Pump setting = 140 ft).

V.(Aftab Sikandar Site)(Discharge = 10500 IGPH) (T.D.Head = 100 ft) (Pump setting = 140 ft).

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M ³	13.26	243.91	3234.25
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	16.31	7783.07	126941.87
3	26-01-q	Supply and Erection of Solar Auto Tracker for 3.6 KW installation	No	16.00	268,911.00	4302576.00
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	61545.00	72.58	4466936.10
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4" deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	21.00	526.43	11055.03
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	32.00	934.80	29913.60
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	10.00	934.80	9348.00
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	5.00	4053.50	20267.50
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/XPLO insulated/ PVC sheathed) flexible copper cable.	M	304.80	228.30	69585.84
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	243.84	349.84	85304.99
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	207.87	541.14	112486.77
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	377.06	357.37	134749.93
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	50200	16.95	850890.00
14	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 mm ² .	M	256.03	635.75	162771.07
15	24-50-a-01	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 and power cable with appropriate Head and Discharge : 10 HP,	Job	4.00	327088.50	1308354.00

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
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 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 and power cable with appropriate Head and Discharge : 15 HP,	Job	1.00	408853.00	408853.00
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.	M	240.79	2901.66	698690.71
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	94.00	98.16	9227.04
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	752.00	212.86	160070.72
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	10.00	574.38	5743.80
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangement holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	5.00	2000.00	10000.00
22	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	5.00	25000.00	125000.00
Total in Rs. =						13112000
Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).						
Amount exempted from Federal GST (PKR):						
Amount chargeable to _____% Federal (FBR) sales tax on goods (PKR):						
Federal (FBR) sales tax on goods @ _____% (PKR):						
Amount chargeable to _____% Provincial (KPPRA) sales tax on services (PKR):						
Provincial (KPPRA) sales tax on services @ _____% (PKR):						
Any other applicable Tax:						
Total in Rs. =						

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020.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,
Tubewells Irrigation Sub Division,
Peshawar.

Sub Engineer,

Bill of Quantity

Name of Work: Construction of flood protection works, irrigation channels and installation of solar tube wells in KPK on need basis. ADP No.2212/180617 Dg: 2021-22

Sub Work: (I) Solarization of New Irrigation Tubewell UC Badaber Hurizai C/O Tehsin Ullah District Peshawar.(Solar System with pumping machinery).
 (II) Solarization of New Irrigation Tubewell UC Badaber Hurizai C/O Zareen Khan District Peshawar.(Solar System with pumping machinery).
 (III) Solarization of New Irrigation Tubewell UC Badaber Hurizai C/O Hameed Ullah District Peshawar.(Solar System with pumping machinery).
 (IV) Solarization of New Irrigation Tubewell UC Aza Khel 62 C/O Shah Jahan District Peshawar.(Solar System with pumping machinery).

I.(Tehsin Ullah Site)(Discharge = 13000 IGPH) (T.D.Head = 190 ft) (Pump setting = 280 ft).

II.(Zareen Khan Site)(Discharge = 13800 IGPH) (T.D.Head = 150 ft) (Pump setting = 290 ft).

III.(Hameed Ullah Site)(Discharge = 13800 IGPH) (T.D.Head = 150 ft) (Pump setting = 220 ft).

IV.(Shah Jahan Site)(Discharge = 9000 IGPH) (T.D.Head = 260 ft) (Pump setting = 380 ft).

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M ³	15.30	243.91	3731.82
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	20.39	7783.07	158696.80
3	26-01-r	Supply and Erection of PV Mounting Frame with Manual Tracking.	K/watt	83.93	29,276.46	2457173.29
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	83925.00	72.58	6091276.50
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	24.00	526.43	12634.32
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	40.00	934.80	37392.00
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	8.00	934.80	7478.40
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	4.00	4053.50	16214.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/XPLO insulated/ PVC sheathed) flexible copper cable.	M	292.61	228.30	66802.86
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	292.61	349.84	102366.68
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	170.69	541.14	92367.19
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	377.01	357.37	134732.06
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	67000	16.95	1135650.00
14	24-50-c-02	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x16 mm2.	M	387.10	874.75	338615.73
15	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 and power cable with appropriate Head and Discharge : 17.5 HP,	Job	2.00	420557.00	841114.00

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
16	24-50-a-08	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 and power cable with appropriate Head and Discharge : 20 HP,	Job	2.00	431730.00	863460.00
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.	M	368.81	2901.66	1070161.22
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	133.00	98.16	13055.28
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	1064.00	212.86	226483.04
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	8.00	574.38	4595.04
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangement holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	4.00	2000.00	8000.00
22	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	4.00	25000.00	100000.00
Total in Rs. =						13782000
Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).						
Amount exempted from Federal GST (PKR):						
Amount chargeable to _____% Federal (FBR) sales tax on goods (PKR):						
Federal (FBR) sales tax on goods @ _____% (PKR):						
Amount chargeable to _____% Provincial (KPPRA) sales tax on services (PKR):						
Provincial (KPPRA) sales tax on services @ _____% (PKR):						
Any other applicable Tax:						
Total in Rs. =						

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020.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,
Tubewells Irrigation Sub Division,
Peshawar.

Sub Engineer,

Bill of Quantity

Name of Work: Construction of flood protection works, irrigation channels and installation of solar tube wells in KPK on need basis. ADP No.2212/180617 Dg: 2021-22

Sub Work: (I).Construction & Solarization of New Irrigation T/well in UC Mashogagar C/O Sami ud Din District Peshawar.(Solar System with pumping machinery)

I.(Sami ud Din Site)(Discharge = 9500 IGPH) (T.D.Head = 180 ft) (Pump setting = 250 ft).

S.No	MRS-2020	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	243.91	746.36
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	4.08	7783.07	31754.93
3	26-01-r	Supply and Erection of PV Mounting Frame with Manual Tracking.	K/watt	15.67	29,276.46	458762.13
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	15666.00	72.58	1137038.28
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	5.00	526.43	2632.15
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	8.00	934.80	7478.40
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	934.80	1869.60
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	4053.50	4053.50
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/XPLO insulated/ PVC sheathed) flexible copper cable.	M	21.95	228.30	5011.19
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	18.29	349.84	6398.57
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	15.24	541.14	8246.97
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	25.69	357.37	9180.84
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	13000	16.95	220350.00
14	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 mm ² .	M	83.82	635.75	53288.57
15	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 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 and power cable with appropriate Head and Discharge : 15 HP,	Job	1.00	408853.00	408853.00
16	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.	M	79.25	2901.66	229956.56
17	27-48	Rubber packing 1/32" to 1/16"thick.	No	29.00	98.16	2846.64
18	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	232.00	212.86	49383.52
19	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	574.38	1148.76
20	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangement holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	2000.00	2000.00

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
21	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	1.00	25000.00	25000.00
Total in Rs. =						2666000
Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).						
Amount exempted from Federal GST (PKR):						
Amount chargeable to _____% Federal (FBR) sales tax on goods (PKR):						
Federal (FBR) sales tax on goods @ _____% (PKR):						
Amount chargeable to _____% Provincial (KPPRA) sales tax on services (PKR):						
Provincial (KPPRA) sales tax on services @ _____% (PKR):						
Any other applicable Tax:						
Total in Rs. =						

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020. 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,
Tubewells Irrigation Sub Division,
Peshawar.

Sub Engineer,

Bill of Quantity

Name of Work: Construction of flood protection works, irrigation channels and installation of solar tube wells in KPK on need basis. ADP No.2212/180617 Dg; 2021-22

Sub Work: (I) Construction of 1 No. New Solar Irrigation T/well in UC Adezai PK-71 Haji Hazrat Ali District Peshawar.(Solar System with pumping machinery).

I. (Haji Hazrat Ali Site)(Discharge = 14000 IGPH) (T.D.Head = 200 ft) (Pump setting = 300 ft).

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M ³	4.60	243.91	1121.99
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	6.12	7783.07	47632.39
3	26-01-r	Supply and Erection of PV Mounting Frame with Manual Tracking.	K/watt	26.11	29,276.46	764408.37
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	26110.00	72.58	1895063.80
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4" deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	7.00	526.43	3685.01
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	12.00	934.80	11217.60
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	934.80	1869.60
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	4053.50	4053.50
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/XPLO insulated/ PVC sheathed) flexible copper cable.	M	109.73	228.30	25051.36
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	97.54	349.84	34123.39
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	79.25	541.14	42885.35
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	142.43	357.37	50900.21
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	22000	16.95	372900.00
14	24-50-c-02	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x16 mm ² .	M	99.06	874.75	86652.74
16	24-50-a-03	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 and power cable with appropriate Head and Discharge : 25 HP,	Job	1.00	454872.41	454872.41
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.	M	94.49	2901.66	274177.85
18	27-48	Rubber packing 1/32" to 1/16"thick.	No	34.00	98.16	3337.44
19	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	272.00	212.86	57897.92
20	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	574.38	1148.76
21	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangement holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	2000.00	2000.00

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
22	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	1.00	25000.00	25000.00
Total in Rs. =						4160000
Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).						
Amount exempted from Federal GST (PKR):						
Amount chargeable to _____% Federal (FBR) sales tax on goods (PKR):						
Federal (FBR) sales tax on goods @ _____% (PKR):						
Amount chargeable to _____% Provincial (KPPRA) sales tax on services (PKR):						
Provincial (KPPRA) sales tax on services @ _____% (PKR):						
Any other applicable Tax:						
Total in Rs. =						

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020. 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,
Tubewells Irrigation Sub Division,
Peshawar.

Sub Engineer,

Bill of Quantity

Name of Work: Construction/Installation of Augmentation/Irrigation Tubewells in District Charsadda. ADP No. 2177/160276 dg: 2021-22

Sub Work: (I) Installation of solar based Irrigation Tubewell No.17 at PK-21 District Charsadda.(Solar System with pumping machinery).
(II) Installation of solar based Irrigation Tubewell No.27 District Charsadda.(Solar System with pumping machinery).

I. (Bilal Advocate Site)(Discharge = 15500 IGPH) (T.D.Head = 100 ft) (Pump setting = 140 ft).

II. (Maj Naeem Site)(Discharge = 10500 IGPH) (T.D.Head = 100 ft) (Pump setting = 140 ft).

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M ³	5.35	243.91	1304.92
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	7.14	7783.07	55571.12
3	26-01-q	Supply and Erection of Solar Auto Tracker for 3.6 KW installation	No	7.00	268,911.00	1882377.00
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	24245.00	72.58	1759702.10
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	9.00	526.43	4737.87
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	14.00	934.80	13087.20
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	4.00	934.80	3739.20
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	2.00	4053.50	8107.00
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	159.72	228.30	36464.08
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	60.96	349.84	21326.25
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	70.11	541.14	37939.33
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	141.56	357.37	50589.30
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	22300	16.95	377985.00
14	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 mm ² .	M	97.54	635.75	62011.06
15	24-50-a-01	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 and power cable with appropriate Head and Discharge : 10 HP,	Job	1.00	327088.50	327088.50
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 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 and power cable with appropriate Head and Discharge : 15 HP,	Job	1.00	408853.00	408853.00
17	N.S.I	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 5" (125 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	150.00	3745.33	561799.50
18	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.	M	45.72	2901.66	132663.90

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
19	27-48	Rubber packing 1/32" to 1/16"thick.	No	36.00	98.16	3533.76
20	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	288.00	212.86	61303.68
21	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 5" i/d.	Each	2.00	912.16	1824.32
22	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	574.38	1148.76
23	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangement holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	2.00	2000.00	4000.00
24	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	2.00	25000.00	50000.00
25	15-79-b	Supply and Fixing PVC conduit for surface wiring (dura duct) 1"	M	7.32	102.21	748.18
26	26-01-g-01	Supply and Erection 1x2.5 sq.mm flexible copper cable.	M	24.38	114.60	2793.95
27	15-71-a	Supply and Erection single phase imported auto circuit breaker 6Amp.	No	8.00	648.00	5184.00
28	26-01-e-03	Supply and Erection of MPPT Solar Light Charge Controller (20Amps, 12/24V) with all sort of electronic protections.	No.	2.00	11743.86	23487.72
29	26-01-o	Supply and Erection of BOX / STAND for Batteries SHS Inverter & Charge Controller.	Watt	300.00	6.25	1875.00
30	26-01-f-02	Supply and erection of 12V VRLA AGM Battery per AH.	AH	300.00	293.60	88080.00
31	26-01-l-02	Supply and Erection of DC CEILING FANS 48 inch 30-36 W.	No.	2.00	4583.20	9166.40
32	15-22-a	Supply and Erection button holder/angle holder Bakelite large size.	Each	6.00	69.30	415.80
33	N.S.I	Supply and Erection of DC energy efficient LED light bulbs (10-20 Watt)	Each	6.00	182.00	1092.00
Total in Rs. =						6000000
Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).						
Amount exempted from Federal GST (PKR):						
Amount chargeable to ____% Federal (FBR) sales tax on goods (PKR):						
Federal (FBR) sales tax on goods @ ____% (PKR):						
Amount chargeable to ____% Provincial (KPPRA) sales tax on services (PKR):						
Provincial (KPPRA) sales tax on services @ ____% (PKR):						
Any other applicable Tax:						
Total in Rs. =						

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020.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,
Tubewells Irrigation Sub Division,
Peshawar.

Sub Engineer,

Bill of Quantity

Name of Work: Provision of Irrigation/Augmentation Tube Wells and Lift Irrigation Schemes at required places in Khyber Pakhtunkhwa.(ADP No. 2205/170597 dg: 2021-22)

Sub Work: (I) Installation of Solar Based Irrigation Tube Well at Gul Bella Shareef Khana c/o Syed Ahsan Mukhtiar Ashraf District Peshawar.(Solar System with pumping machinery & Boundary wall)

I. (Abbas Khan Site)(Discharge = 19000 IGPH) (T.D.Head = 50 ft) (Pump setting = 80 ft).

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M ³	6.12	243.91	1492.73
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	8.16	7783.07	63509.85
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	13428.00	21.82	292998.96
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	13428.00	72.58	974604.24
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	2.00	526.43	1052.86
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	4.00	934.80	3739.20
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	934.80	1869.60
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	4053.50	4053.50
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLO/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	60.96	228.30	13917.17
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	60.96	349.84	21326.25
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	106.67	541.14	57723.40
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	114.08	357.37	40768.77
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	9300	16.95	157635.00
14	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 mm ² .	M	32.00	635.75	20344.00
15	24-50-a-01	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 and power cable with appropriate Head and Discharge : 10,HP	Job	1.00	327088.50	327088.50
16	N.S.I	Supply and Fixing MS Column pipe with flanges for sub,merssible pump : 5" (125 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length.	M	27.43	3745.33	102734.40
17	27-48	Rubber packing 1/32" to 1/16"thick.	No	12.00	98.16	1177.92
18	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	96.00	212.86	20434.56
19	N.S.I	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 5" i/d.	Each	2.00	912.16	1824.32
20	N.S.I	Supply and fixing bore cover plate (2 pieces) 3/8" thick arangement holes for column and cable, hole one inches i/c for inspection of water level in Tube well.	Job	1.00	2000.00	2000.00
21	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	1.00	25000.00	25000.00

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
					Total in Rs. =	2135295
		Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).				
		Amount exempted from Federal GST (PKR):				
		Amount chargeable to ____% Federal (FBR) sales tax on goods (PKR):				
		Federal (FBR) sales tax on goods @ ____% (PKR):				
		Amount chargeable to ____% Provincial (KPPRA) sales tax on services (PKR):				
		Provincial (KPPRA) sales tax on services @ ____% (PKR):				
		Any other applicable Tax:				
		Total in Rs. =				

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020. The Quantities are liable to be increased or decreased during execution.

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

Sub Divisional Officer,
Tubewells Irrigation Sub Division,
Peshawar.

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

Contractor Signature.....

Sub Engineer,

Bill of Quantity

Name of Work: Installation of Solar Augmentation/Irrigation Tube Wells in Khyber Pakhtunkhwa.(ADP No. 2191/160513 dg: 2021-22).

Sub Work: (I) Installation of Solar Based Irrigation Tubewell at Khan Rahim Kalley UC Bazid Khel PK-06 District Peshawar.(Solar System with pumping machinery).

I.(Khan Rahim Site)(Discharge = 12000 IGPH) (T.D.Head = 150 ft) (Pump setting = 270 ft).

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
1	03-25-b	Excavation in foundation of building, bridges etc complete.in ordinary soil.	M ³	9.17	243.91	2236.65
2	06-05-f	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4).	M ³	12.23	7783.07	95186.95
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	20142.00	21.82	439498.44
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	20142.00	72.58	1461906.36
5	15-09-f	Supply and Erection MS sheet box of 16 SWG, 4"deep with 3/16" thick bakelite sheet top etc. complete : 12"x14"	Each	2.00	526.43	1052.86
6	15-71-c	Supply and Erection single phase imported auto circuit breaker 20Amp.	Each	6.00	934.80	5608.80
7	15-71-d	Supply and Erection single phase imported auto circuit breaker 30Amp.	Each	2.00	934.80	1869.60
8	15-70-b	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	1.00	4053.50	4053.50
9	26-01-g-03	Supply and Erection 1x6 sq.mm single core (XPLE/ XPLO insulated/ PVC sheathed) flexible copper cable.	M	97.54	228.30	22268.38
10	26-01-g-04	Supply and Erection 1x10 sq.mm flexible copper cable.	M	91.44	349.84	31989.37
11	26-01-g-05	Supply and Erection 1x16 sq.mm Copper cable.	M	85.33	541.14	46175.48
12	26-01-b-02	Supply and Erection PVC flexible pipe : 1.5" i/d.	M	136.23	357.37	48684.52
13	26-01-i-04	Supply and Erection of 3 Phase 220/380V Solar Pump inverter (MPPT) 7.5 KW and above	Watt	13000	16.95	220350.00
14	24-50-c-02	Supply and installation of Submersible Flat Cable made of 99.9% copper, coated with double PVC as per BSS Standards, 3x16 mm ² .	M	89.92	874.75	78657.52
15	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 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 and power cable with appropriate Head and Discharge : 15,HP	Job	1.00	408853.00	408853.00
16	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.	M	85.34	2901.66	247627.66
17	27-48	Rubber packing 1/32" to 1/16"thick.	No	31.00	98.16	3042.96
18	15-72-f	Supply & erection of Nut & Bolt (2"x5/8").	No	248.00	212.86	52789.28
19	24-39-g	Supplying and Fixing MS Suspension Clamp 3/8" thick for housing pipe : 4" i/d.	Each	2.00	574.38	1148.76
20	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	2000.00	2000.00
21	N.S.I	Supply & Fixing of Copper Plate type Earth System complete with all respect as per direction of Engineer incharge.	Job	1.00	25000.00	25000.00

S.No	MRS-2020	Description	Unit	Qty	Rate	Amount (Rs.)
					Total in Rs. =	3200000
		Note: Following information is to be provided by the bidder otherwise bid shall be declared as non-responsive (must be duly supported by evidence of exemption).				
		Amount exempted from Federal GST (PKR):				
		Amount chargeable to ____% Federal (FBR) sales tax on goods (PKR):				
		Federal (FBR) sales tax on goods @ ____% (PKR):				
		Amount chargeable to ____% Provincial (KPPRA) sales tax on services (PKR):				
		Provincial (KPPRA) sales tax on services @ ____% (PKR):				
		Any other applicable Tax:				
		Total in Rs. =				

Note:- Any other item of work crop out during execution will be paid on M.R.S 2020. 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,
Tubewells Irrigation Sub Division,
Peshawar.

Sub Engineer,