**Doc 3: Instructions to Tenderers**

1. *WORK TO BE PERFORMED*

***LOT 1 – Installation of Solar Systems in Schools & Health Facilities (39 Nos.)***

1. **Installation of Solar System 03KW in Health Facilities**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No:** | **Product Name and Specification for One Solar** | **Units** | **Qty Required** |
| 1 | Maintenance Free Battery 12V 200Ah Gel/VRLA, 1 Years Warranty 600 Cycles 50% DOD (as per need) | No | **2** |
| 2 | Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade Half Cut (585 Watt N type or upgraded Technology) complete in all respects with 10 Years Warranty | No | **6** |
| 3 | Hybrid Inverter 3.2 KW & above 4000 Watts PV with Online Monitoring 2 Years Warranty (as per need) | Units | **1** |
| 4 | Off Grid Inverter 3.2 KW & above KW 4000 Watts PV with Online Monitoring 2 Years Warranty (as per need) | Units | **1** |
| 5 | Supply & Fixing Solar Panel Structure Galvanized Iron 14 Gauge | No | **6** |
| 6 | Supply & installation of Battery Racks | Job | **1** |
| 7 | Supply & installation PVC flexible pipe for Panel Wiring | Ft | **100** |
| 8 | Supply & installation Selector Switch | No | **1** |
| 9 | Supply & installation Circuit Breaker 63/100A DC | No | **2** |
| 10 | Supply & installation Circuit Breaker 63/100A AC | No | **2** |
| 11 | Supply & installation SPD/Voltage protector | No | **1** |
| 12 | Supply & installation of Duct (White) | Ft | **100** |
| 13 | Supply & Installation AC/DC Fans | No | **10** |
| 14 | Supply of Maintenance Kit for complete Solar System (Plier, Diagonal cutting Plier, Spanners, Soft Brush for cleaning, Tester & screw driver 2 in 1) | Set | **1** |
| 15 | Supply & installation of Main Distribution Board | No | **1** |
| 16 | Supply & installation of DC Breaker Box | No | **1** |
| 17 | DC Cable: 10 mm sq. 2C | Ft | **300** |
| 18 | DC Cable :25 mm sq. SC | Ft | **55** |
| 19 | AC Cable : 7/0.036 SC | Ft | **300** |
| 20 | Installation Category (5 KW) Complete Labor Only | Site | **1** |
| 21 | CONCRETE PADS: Providing and laying PCC 1:2:4 for PV Mounting pads (12"x 12" x12") or as per requirement including all civil works and installation and instruction of Engineer In-charge. | Job | **1** |
| 22 | Supply and installation of Visibility Plates/ Inauguration Plaque as instructed by Engineer In-charge (18" x 15") | Job | **1** |

1. **Installation of Solar System 05KW in Health Facilities**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No:** | **Product Name and Specification for One Solar** | **Units** | **Qty Required** |
| 1 | Maintenance Free Battery 12V 200Ah Gel/VRLA, 1 Years Warranty 600 Cycles 50% DOD (as per need) | No | **4** |
| 2 | Supply and Erection of Solar PV Module (Solar Panel) Mono-crystalline A-Grade Half Cut (585 Watt N type or upgraded Technology) complete in all respects with 10 Years Warranty | No | **10** |
| 3 | Hybrid Inverter 5 KW 6000 Watts PV with Online Monitoring 2 Years Warranty (as per need) | Units | **1** |
| 4 | Off Grid Inverter 5 KW 6000 Watts PV with Online Monitoring 2 Years Warranty (as per need | Units | **1** |
| 5 | Supply & Fixing Solar Panel Structure Galvanized Iron 14 Gauge | No | **10** |
| 6 | Supply & installation of Battery Racks | Job | **1** |
| 7 | Supply & installation PVC flexible pipe for Panel Wiring | Ft | **100** |
| 8 | Supply and installation Selector Switch | No | **1** |
| 9 | Supply & installation Circuit Breaker 63/100A DC | No | **2** |
| 10 | Supply & installation Circuit Breaker 63/100A AC | No | **2** |
| 11 | Supply & installation SPD/Voltage protector | No | **1** |
| 12 | Duct (White) | Ft | **100** |
| 13 | Supply & Installation AC/DC Fans | No | **10** |
| 14 | Supply of Maintenance Kit for complete Solar System (Plier, Diagonal cutting Plier, Spanners, Soft Brush for cleaning, Tester & screw driver 2 in 1) | Set | **1** |
| 15 | Main Distribution Board | No | **1** |
| 16 | DC Breaker Box | No | **1** |
| 17 | DC Cable: 10 mm sq. 2C | Ft | **300** |
| 18 | DC Cable :25 mm sq. SC | Ft | **55** |
| 19 | AC Cable : 7/0.036 SC | Ft | **300** |
| 20 | Installation Category (5 KW) Complete Labor Only | Site | **1** |
| 21 | CONCRETE PADS: Providing and laying PCC 1:2:4 for PV Mounting pads (12"x 12" x12") or as per requirement including all civil works and installation and instruction of Engineer In-charge. | Job | **1** |
| 22 | Supply and installation of Visibility Plates/ Inauguration Plaque as instructed by Engineer in-charge (18" x 15") | Job | **1** |

***LOT 2 –* Construction of Climate Resilient Latrines in Communities (450 Latrines)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Description** | **Quantity** | **Unit** | **Remarks** |
| 1 | Excavation in foundation of building, bridges etc. complete in ordinary soil | 258.50 | CFT | **Community share** |
| 2 | Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8) | 6.66 | CFT |  |
| 3 | 1st class brick work in Foundation, Super structure in Cement, sand mortar 1:6 | 225.99 | CFT |  |
| 4 | RCC in roof slab, beam, column & other structural members, insitu or precast. Type C (1:2:4) | 21.66 | CFT |  |
| 5 | Supply & fabricate M.S. reinforcement for cement concrete, (Hot rolled deformed bars Grade 40) | 21.44 | KG |  |
| 6 | Filling, watering and ramming earth under floor with earth excavated from outside lead upto 30m | 80.00 | CFT | **Community share** |
| 7 | Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4) | 33.63 | CFT |  |
| 8 | Cement plaster 1:4 upto 20' height 1/2" thick | 409.16 | sft |  |
| 9 | White washing 3 coats as directed by engineer in-charge | 409.16 | sft | **Community share Optional** |
| 10 | Providing and fixing single leaf steel door with 1.5"x 1.5"x 1/8"angle iron frame fully panelled with M.S sheet 20 gauge (0.9mm pressed) painted with two coats of red oxide & 3 Coats of Dark Green paint with fitting of approved make including cost of fabrication, iron lugs, cutting holes and making good the damages to walls Complete | 15.00 | sft |  |
| 11 | MS flat 1/2"x1/8" grill in windows of approved design including painting 3 coats & wire gauze, complete | 3.00 | sft |  |
| 12 | Providing and Fixing glazed earthen ware WC squatting type with built-in foot rests, including P trap etc.. complete in all respects :White | 1.00 | No |  |
| 13 | Providing and Fixing UPVC floor trap of approved quality including grating, Jali, Outlet pipe 3" to soakage pit & concrete chamber all round : 4"x2" (100mm x 50 mm) | 1.00 | Job |  |
| 14 | Providing and laying approved quality UPVC pipes for water supply and gas supply i/c fitting, cutting, jointing, jointing material making holes in walls and filling the same with 1:4 CSM : 4" dia | 15.00 | Ft |  |
| 15 | Providing and fixing approved quality UPVC Vent pipes 2" (6' above DPC), including Cowl & Complete fittings. | 1.00 | Job |  |
| 16 | Pre-Cast RCC slabs having size bracing thickness 2'', centre thickness 3/4'' Complete including Girders for support & grouting above slabs | 71.75 | sft |  |
| 17 | Mild Steel Hand rail on both side, stair/ramp 2.5' clear height 1.5" x1.5" Square including concrete etc.. complete or as per direction by Engineer in-charge. | 1.00 | Job |  |
| 18 | Visibility Plates/ Inauguration Plaque (15"x 12") as instructed by Engineer in-charge | 1.00 | Job |  |
| 19 | Provision of Steel Folding Commode Chair with adjustable height for Elder/disable persons (as per attached Pic) | 1.00 | Job |  |

***LOT 3:* Rehabilitation of Climate Resilient Latrines in Educational Institutes & Health Facilities (120 Latrines)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Description** | **Quantity** | **Unit** | **Remarks** |
| 1 | Dismantling of concrete, brick work etc.. | 63.00 | CFT |  |
| 2 | Cleaning work etc.. | 1.00 | Job |  |
| 3 | Excavation in foundation of building, bridges etc.. complete in ordinary soil | 227.00 | CFT |  |
| 4 | Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8) | 14.54 | CFT |  |
| 5 | 1st class brick work in Foundation, Super structure in Cement, sand mortar 1:6 | 237.83 | CFT |  |
| 6 | RCC in roof slab, beam, column & other structural members, insitu or precast. Type C (1:2:4) | 1.61 | CFT |  |
| 7 | Supply & fabricate M.S. reinforcement for cement concrete, (Hot rolled deformed bars Grade 40) | 5.36 | KG |  |
| 8 | Filling, watering and ramming earth under floor with earth excavated from outside lead upto 30m | 80.00 | CFT |  |
| 9 | Provide, lay, water & ram 4" thick clean coarse sand under floor / brick paving, complete | 10.00 | CFT |  |
| 10 | Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4) | 29.38 | CFT |  |
| 11 | Removing cement or lime plaster | 10.00 | sft |  |
| 12 | Applying Floating coat of cement 1/32" thick | 10.00 | sft |  |
| 13 | Cement plaster 1:4 upto 20' height 1/2" thick | 440.50 | sft |  |
| 14 | Preparing the surface and painting with matt finishing include rubbing the surface filling the voids with zinc chalk plaster of Paris mixture applying first coat of premier making the surface and then painting 3 coats matt finish paint with ICI matt finish etc.. | 144.00 | sft |  |
| 15 | Preparing The Surface & painting with Snowcem/ weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk plaster of Paris & then painting weather coat of approved make | 240.00 | sft |  |
| 16 | laying floor of approved coloured glazed tiles 1/4" thick laid in white cement and pigment on a bed of 3/4" Thick cement motor 1:2 (as per need / Instructed by Engineer in-charge) | 100.00 | sft | **As per need. Where dismantled for sanitation purpose** |
| 17 | P/F GI Frame chowkhat Size 7"\*2" for Door using 20 gauge G.I Sheet I/C welded hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also i/c all carriage, tools and plants using in making and fixing etc.. complete. (as per need / Instructed by Engineer in-charge) | 16.50 | Rft | **as per need** |
| 18 | Providing and fixing in position doors, windows and ventilators of 1st class deodar wood frames and 1-1/2" thick teak wood ply shutters of 2nd class deodar wood skeleton (Solid) styles and rails core of partial wood and teak ply wood (3-ply) on both sides i/c holds fasts, hinges, iron tower bolts, handles and cleats with cord etc. with Wooden chowkat complete ((as per need / Instructed by Engineer in-charge) | 15.00 | sft | **as per need** |
| 19 | Providing and fixing single leaf steel door with 1.5"x 1.5"x 1/8"angle iron frame fully panelled with M.S sheet 20 gauge (0.9mm pressed) painted with two coats of red oxide & 3 Coats of Dark Green paint with fitting of approved make including cost of fabrication, iron lugs, cutting holes and making good the damages to walls Complete (as per need / Instructed by Engineer in-charge) | 15.00 | sft | **as per need** |
| 20 | Installation of Wire gauze including all fixers (as per need / Instructed by Engineer in-charge) | 36.00 | sft |  |
| 21 | MS flat 1/2"x1/8" grill in windows of approved design including painting 3 coats & Wire gauze, complete ( as per need / Instructed by Engineer in-charge) | 3.00 | sft |  |
| 22 | Providing and Fixing glazed earthen ware WC squatting type with built-in foot rests, including P trap etc.. complete in all respects :White | 1.00 | No |  |
| 23 | Providing and Fixing PVC floor trap of approved quality including grating, Jali, Outlet pipe & concrete chamber all round : 4"x2" (100mm x 50 mm) (as per need / Instructed by Engineer in-charge) | 1.00 | Job |  |
| 24 | Providing and fixing 3/4" dia UPVC pipe Best quality include cutting etc. complete including all fixtures & fittings as directed by engineer in-charge | 50.00 | Rft |  |
| 25 | Providing and fixing chromium plated (CP)bib-cock heavy duty of approved quality : 1.5 cm 1/2" | 1.00 | No |  |
| 26 | P/L approved quality UPVC pipes for water supply and gas supply i/c fitting, cutting, jointing, jointing material making holes in walls and filling the same with 1:4 CSM, excavation and back filling. : 4" dia | 14.00 | Ft |  |
| 27 | P/L approved quality RCC pipes for water supply and gas supply i/c fitting, cutting, jointing, jointing material including excavation and back filling. Complete : 6" dia | 14.00 | Ft |  |
| 28 | P/F approved quality UPVC Vent pipes 2" complete including Cowl & Complete fittings. (as per need / Instructed by Engineer in-charge) | 1.00 | Job |  |
| 29 | Pre-Cast RCC slabs having size bracing thickness 2'', centre thickness 3/4'' Complete including Girders for support & grouting above slabs | 71.75 | sft |  |
| 30 | Mild Steel Hand rail on both side, Stair/Ramp 2.5' height 1.5" x1.5" Square (450 gm/ft) including concrete etc. complete (as per need / Instructed by Engineer in-charge) | 1.00 | Job | as per need |
| 31 | Visibility Plates/ Inauguration Plaque Stainless steel ( 22 SWG) size 15"x12"as instructed by Engineer in-charge | 1.00 | Job |  |
| 32 | Supplying & Fixing fiber glass tank of approved quality and design and wall thickness as specified I/c cost of nuts, bolts and fixing in platform of cement concrete 1:3:6 and making connections for in-let, & out-let & over flow pipes with gate valve etc.. complete 100 gallons wall thickness 3.5mm (as per need / Instructed by Engineer in-charge) | 1.00 | Job | as per need |
| 33 | Providing and Fixing glazed earthen ware wash hand basin (WHB/Venity) white in color of Porta or Bright, complete, size 56x40 cm (22"x16"), including pedestal, bracket set, Side Pillar Cook Water Tap, waste coupling, 1-1/4'' Ф strainers, 1-1/4'' Ф drain pipe, soap dish, complete in all respects: | 1.00 | Job | as per need |
| 34 | P/Fixing orise type white or colour glazed earthen ware European style Complete with all other fixtures as directed by engineer in-charge | 1.00 | Job | as per need |
| 35 | P/Fixing Muslim Shower | 1.00 | Job | as per need |

***LOT 4 – Installation of Climate Resilient Hand Pumps (450 Nos.)***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Items** | | **Specification** | **Unit** | **Per unit Qty** | **Remarks** | |
| **A** | **Bore hole and Hand pump accessories** | | | | | |
| 1 | Drilling Bore hole | | Mechanical boring 3" dia bore 25 to 70 feet deep in all types of soils 15 to 20 feet water level to be ensured | Rft | 70.00 |  | |
| 2 | Riser Pipe | | High Density poly pipe (HDPE) PN 10 (1" Dia) | Rft | 70.00 |  | |
| 3 | Leadline for Handpump | | High Density poly pipe (HDPE) PN 10 (1" Dia) | Rft | 1200.00 |  | |
| 4 | Casing Pipe & Filter Pipe | | Providing & Installation of PVC-U class B blind pressure pipe (non-recycled and made of fresh polymers) of 1.25" internal dia, I/c lowering, jointing and fixing with 6" overlapping at joints. | Rft | 70.00 |  | |
| 5 | Filter cover/net | | locally available filter thread best quality | Job | 1.00 |  | |
| 6 | End Cap | | End cap UPVC | No. | 1.00 |  | |
| 7 | Jointing solution | | Jointing solution for fitting PVC pipes 250 ml | Canes | 1.00 |  | |
| 8 | Hand Pump | | (Abyar#4) manufactured recommended for Water Level 20-70 feet with complete handle, head cover, plunger assembly, nuts and bolts etc. Complete (As per need) | Set | 1.00 |  | |
| 9 | Cone Seal | | Rubber Packing Seals | No | 1.00 |  | |
| 10 | De-watering | | De-watering for cleaning of boring well by pressure pump/compressor machine Develop hand pump of size 4"i/d continuously for required discharge till reaching clean water | Job | 1.00 |  | |
| 11 | Water Quality Analysis | | By adhering to this specification, the contractor will ensure the successful installation of a handpump that provides safe and potable water to the designated area, along with a verified water analysis report confirming the water quality Standards set by WHO (PCRWR or any government approved Lab) | Job | 1.00 |  | |
| **B** | **Apron/Platform for Leadline Handpump as per approved drawing/design using below mentioned material** | | | | | | |
| 1 | Excavation in ordinary Soil & Refilling ( 1' x 2') | | Excavation and refill trenches in all kind of soil for laying lead line,Hand Pumps Platform, Soakpit will be done as per specification | Cft | 2418.75 | Community Share in community only | |
| 2 | PCC work (1:4:8) | | PCC, cement concrete (1:4:8) including placing , compacting, finishing & curing complete in all respect | Cft | 12.19 |  | |
| 3 | PCC work (1:2:4) | | Providing and laying Plan cement concrete of compressive strength 3000 Psi with cement, sand, crush ratio 1:2:4, using approved crushed stone coarse aggregate and fine aggregate including screenings and washing of  aggregates, mixing, lifting and placing to all heights and dimensions as directed by Engineer, curing, as per technical specifications complete in all respects. | Cft | 39.03 |  | |
| 4 | Brick Masonry with mortar (1:6) | | A Class Burnt Brick (9x4.5x3) with mortor ratio 1:6 with finishing & curing complete in all respect | Cft | 129.99 |  | |
| 5 | Plaster in 1:4 C/ Sand Mortar | | Providing and applying (3/4") thick plaster on outer walls with cement mortar (1:4) CSM including surface preparation, curing, making edges, and corners, etc. complete in all respects as according to specification. | sft | 91.68 |  | |
| 6 | Railing (both side of stair/Ramp) | | Mild Steel Hand rail for support on both side of Stair or 1 side of Ramp 2.5' height above step 1.5" x1.5" Square or as instructed by Engineer In-charge | Job | 1.00 |  | |
| 7 | Cleaning Pipe including elbow | | 4" dia Upvc pipe length as per need maximum upto 12 feet with concrete. | No. | 1.00 |  | |
| 8 | Check Valve including male sockets | | PVC 1 ¼”- 2" as per Engineers instruction | No. | 2.00 |  | |
| **C** |  | **Sign Board / Plaque** | | | | | |
| 1 | Supply and installation of stainless steel (22 Gauge) Sign Board / Branding sheet with organisation / Donors logos complete as per approved Design or as instructed by Engineer In-charge. 15" x 12" | | | Job | 1 |  | |

*Closing date and time for submission of tenders:*

**1500 Hrs (GMT +5) on October 04, 2024**

1. *Submission of tenders*

Tenders should reach at **Plot No. 144, Street 30, I &T Centre, Sector G-9/1, Islamabad**, on or before 1500 Hrs (GMT+5) hrs on October 04, 2024 and should be clearly marked “TENDER AUG-24-135”

1. *Schedule of delivery*

As soon As Possible

1. *Language of offers*

All tenders documents are to be submitted in English

1. *Period of validity of offers*

All bids must be valid for 90 Days from the tender submission date.

1. *Currency*

Pakistani Rupee

1. *Terms*

Cost must be given in Pak Rupees including all applicable government taxes. (WHT & GST)

Cost must be inclusive of all applicable taxes, delivery charges, loading/unloading and all other allied costs.

Taxes will be deducted at the time of payment.

Payment details of the supplier must be clearly stated e.g. to whom cheque should be addressed and if necessary.

Payment will be made after satisfactory delivery and inspection of above stated items.

Procurement committee reserves the right to change the quantities or cancel/reject any or all offers without assigning any reason.

Bidders can apply for a single or multiple Lots. Concern reserves the right to divide the order

Lot wise.

Bidders must not be engaged in any corrupt, fraudulent, collusive or coercive practices including but not limited to applying/ bidding by multiple names / companies. If any bidder is found to be involved in such practices his/her bid may be rejected and the companies in question permanently black listed

Lowest price will not be the sole criteria; quality, delivery time and previous experience will also be considered

1. *Type of contract*

Works Contract

1. *Lots*

**LOT-1:** Installation of Solar Systems in Schools & Health Facilities

**LOT-2:** Construction of Latrines in community, Schools & Health Facilities

**LOT-3:** Rehab of Latrines in community, Schools & Health Facilities

**LOT-4:** Installation of Climate Resilient Hand Pumps

1. *Content of tenders*

-Technical Specification (experience)

-Financial Offer

-Signed Tenderers Declaration

-Company Certificate of Registration

-Completed ‘Tenderers Relevant Experience Form’

1. *Performance Guarantee*

A pay order/ demand draft in favor of “Concern Worldwide” with a value of 3% of the bid amount must also accompany the bid as Tender Guarantee. Bids received without Tender Guarantee may be rejected. If the selected bidder refuses to sign the supplies contract then Concern reserves the right to forfeit the bid security.

1. *Evaluation of tenders*

Lowest price will not be the sole criteria; the quality of Items, Delivery time period & previous experience will also be considered.

1. *Submission of samples*

Samples for construction materials will be evaluated before awarding the final contract.

1. *Cancellation of the tender procedure*

Tender evaluation committee reserves the right to cancel/reject any or all offers without assigning any reason.

1. *Data protection*

**Concern Worldwide** guarantees that all procurement activities are fully and transparently documented for internal or donor audit purposes. **Concern Worldwide** guarantees confidentiality of the procurement process.