**Technical Scope of Work for Rehabilitation/Improvement of WASH Infrastructures in Health Facilities in Kanduz province.**

**INTRODUCTION**

The intent of this scope of the works is the determine and identify the best vendor for the rehabilitation of improvement work in Health facilities in Kunduz province which the detailed location mentioned below:

The main activities in this Scope of work include rehabilitation/improvement of:

**Archi Health Facility:**

* + - * Rehabilitation of the building (including doors and windows repairing, painting, etc…)
      * Construction of two waiting areas, (10 x 4) m (one for male and one for female).
      * Provision of Solar panels and improvement of building electricity.
      * Rehabilitation and improvement of existing toilets (4 in number).
      * Construction and digging of new water well (60 m in depth) .
      * Construction of Waste Management facilities, (incinerator, Ash pit, Sharp Pit, placenta Pits, Soak pit).
      * Construction of boundary fence (18 m length x 1.2 m height)
      * Improvement of HF Water supply network.
      * Improvement of HF sewage system.
      * Construction of culvert (one in number).

**Chardarah Health Facilities:**

* + - * Rehabilitation of HF building structure, (doors, windows, ceramic tiles, Painting).
      * improvement of building electricity.
      * Construction of new guard room (3 x 3) m.
      * Construction of new septic tank (3.4 x 2.4) m.
      * Construction of new water wells (30) m
      * Construction of two waiting areas, (10 x 4) m (one for male and one for female)
      * Toilets Construction two in number (Male and Female).
      * Construction of Waste Management facilities, (incinerator, Ash pit, Sharp Pit, placenta Pits, Soak pit).
      * Construction of boundary fence (18 m length x 1.2 high)
      * Construction of footpath (103.5) m2
      * Improvement of HF Water supply network.
      * Improvement of HF sewage system.

**Imam Sahib Health Facility:**

* + - * Rehabilitation of HF building structure, (doors, windows, ceramic tiles, Painting).
      * Construction of two waiting areas, (10 x 4) m (one for male and one for female).
      * Toilets Construction Only for female
      * Construction of Waste Management facilities, (incinerator, Ash pit, Sharp Pit, placenta Pit, Soak pit.
      * Construction of boundary fence for WM area (14 length x 1.2 high ) m.
      * Construction of new water wells (30) m
      * Provision of Solar panels and improvement of building electricity.
      * Construction of new septic tank (3.4 x 2.4) m.
      * Construction of footpath (61.5) m2
      * Construction of new guard room (3 x 3) m.
      * Improvement of HF Water supply network.
      * Improvement of HF sewage system.

**Khan Abad Health Facilities:**

* + - * Provision of Solar panels and improvement of building electricity.
      * Rehabilitation of HF building structure, (doors, windows, ceramic tiles, Painting).
      * Construction of two waiting areas, (10 x 4) m (one for male and one for female).
      * Construction of new septic tank (3.4 x 2.4) m.
      * Construction of Brick masonry wall (120) m.
      * Construction of Waste Management facilities, (incinerator, Ash pit, Sharp Pit, placenta Pits, Soak pit).
      * Construction of boundary fence (14 m length x 1.2 m hight).
      * Construction of digging new water wells (30 m depth).
      * Toilets Construction two in number (Male and Female).
      * Construction of new guard room (3 x 3) m.
      * Construction of footpath (90) m2
      * Improvement of HF Water supply network.
      * Improvement of HF sewage system.

**PROJECT LOCATION:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S/N** | **District** | **Village** | **GPS** |
| 1 | Khan Abad | Chawni Markazi | 36.4891574, 69.1143587 |
| 2 | Archi | Toor Khail | 36.9766277, 69.2193828 |
| 3 | Chardara | Mama Khail | 36.7199433, 68.674189 |
| 4 | Imam Sahib | Jangle Toorpy | 37.3064673, 68.9295963 |

**PROJECT DURATION:**

The project's anticipated completion time is calculated as 2 months after the contract award and NTP on starting physical work on the ground.

**PROJECT SCOPE:**

**Sub-contractor General Responsibility**

The vendor shall mobilize tools, materials, equipment, and team to the project site, and should coordinate the project commencement with the IRC representative, community and DOPH (if required) before work starts and should avoid conflict among the community and his team during project implementation.

The vendor is expected to carry out all works as instructed in the project documents such as this SoW, BoQ, and design drawings in the thorough best manner and with professional standards.

The vendor shall carry out operations with due efficiency in accordance with the terms of the contract and to the satisfaction of the stakeholders such as the community, DOPH, and IRC representatives. For this purpose, the sub-contractor shall use suitable equipment, and supply efficient and experienced staff.

Sub-contractor should consider safety and security measures of his staff, tools, and equipment during project implementation, IRC is not taking any responsibility for loss, damage, and harm to the sub-contractor’s staff, tools, equipment, and machinery.

Transportation of all project's required equipment, tools, and materials to the project site is the sub-contractor's responsibility and IRC will not accept any equipment and materials that are damaged and unfunctional delivered to the project site.

The sample of tools and equipment used for the project should be verified and confirmed by IRC representative and DOPH (if required) prior to delivering to the project site and without verifying the sample, using such materials and equipment will not be accepted.

The sub-contractor is responsible for clearing the site for commencing the project work that includes but is not limited to debris removal, ground levelling, and barriers set up to demarcate the area of the project. The layout of the site should allow for easy access to the project site for removing excavated materials and dispose them in the assigned location identify by the community or local government.

Water and well tests should be performed prior to start any other physical work. The test includes water well discharge time (should not be less than 8 hours), the volume of discharge (should not be less than 10 to 11 Liter /Minute), potable and drinkability of water (should not have smell, tests, and color). The sub-contractor should make sure that all the basic parameters are achieved during the test and the result of the test should be verified by an IRC representative.

The contractor should perform overall project activities described in this SoW, project BoQ, and material specification such as digging well, maintenance of casing and filter pipes, provision, and installation of PVC pipes, handpump rods, cylinder, handpumps, construction of a well apron, and provision and installation of all other accessories, necessary materials, and parts required for fully functional water well and handpumps.

All materials and equipment required for this rehabilitation and construction project such as bricks, cements, shuttering’s, stones, gravels, sands, doors and windows appliance, steel structures components such steel pillars, steel doors and windows, solar panels, inverters, wiring and caballing’s, switches, sockets, pipes and connectors, rebars, and other accessories and fitting material should be best quality and as per the project SoW and specification mentioned in below and in attached BoQ and IRC assigned engineers instruction and guidance.

Individual and joint monitoring might take place by IRC, DOPH, or community. sub-contractor is responsible for any inquiry about the work quality, quantities, and time-consuming. If any concern is raised during the monitoring of the project work, the sub-contractor is responsible for removing and re-executing the activities and has no right to claim any additional cost.

The sub-contractor should demobilize the project site bring the site to a normal condition and remove all necessary and unused materials such as sand, cement bags, stones, and additional soil from the project site after work completion and clear the site for normal operation. the acceptance letter from the WMC should be received in close coordination with the IRC representative to show the project is functional.

Sub-contractors are part of the handover process and should actively contribute to the handover process and make sure there is no raise of any concern regarding work quality. Final project completion will be considered upon the handover of the project from DOPH has been confirmed and the handover letter is provided.

Site Journal should be available at the project site and should record external visitors such community, DOPH, or any other party and internal visitors such as IRC's own personnel and engineers if they have comments or recommendations on project activities implementation, quality, quantities, mobilization, etc.

**Activities:**

**Rehabilitation of HF main building:**

this is the rehabilitation of HF’s main building which includes the construction of brick masonry and plywood partitions inside the rooms as indicated in the drawings, tiles and ceramic work for child delivery rooms, provision of commodes and sink for the existing washrooms, cutting and backfilling of some area of PCC floors for water supply and sewage network repairing, provision on new doors and windows and repairing of existing doors and window along with provision and installation of glass and detailed are provided in the attached drawings and BoQ and this SoW.

**Construction of waiting area:**

these activities include the provision of tools, equipment, and skilled and unskilled labourers to excavate the foundation of the pillars, installation of pillars, frames, and truss work, brick masonry work for boundaries, provision and installation of doors, windows, and benches as well as electrical and lights, as detailed in the attached drawings, this SoW and attached BoQ. The result of these activities should produce an operational and sustainable waiting area for the HF staff, visitors, and patients in all 4 health facilities mentioned above.

**Toilets Constructions:**

This includes the construction of toilets inside the HFs for male and female staff and visitors. The vendor is responsible for the overall activities performance including mobilization, preparation, provision of tools and materials, and equipment required for the overall excavation, stone masonry foundation, brick masonry, ceiling (slab) construction, doors and windows installation, electricity, plaster, painting, and any other furnishing work required for those mentioned above and project BoQ.

**Construction of Waste Management area:**

This includes the construction of brick masonry incinerators, Ash, Sharp, placenta, and Soak pits as dimensions and size are detailed in the attached drawings and project BoQ. Materials procurement and delivery to the site and the construction of the complete system in vendor's responsibility. This includes the exaction of pits, provision, delivery, and installation of RCC rings, provision of RCC top cover over the pits, as well as brick masonry work for the incinerator along with plasterwork.

**Construction boundary fence:**

This is the construction of a boundary fence around the waste management area with a height of 1.2 m and the specific length for each HF shown in the drawings, to avoid access of unauthorized persons to the area.

The activities include the excavation of the foundation for boundary fence steel pillars, concrete purring, provision of galvanized wire mesh assembling to the vertical pillar before installation, and provision and construction of door along with locking system. For the details, please refer to the attached drawings.

the contractor should install a metallic net with one net door around the waste management area at each Health facility, the foundation for the fence will be constructed from PCC M150, and for column and praline of mesh fence contractor should use 1.5-inch and 2.5-inch angle rings with the thickness of 2.5mm and mesh (6\*6)cm thickness 5mm Galvanized, the contractor should install all items according to drawing and technical specification.

**Construction of new water wells:**

This includes the provision of tools and equipment for digging 4 new 12” diameter water wells in Imam Sahib, khan Abad, Chardara and Archi HFs with a depth of 30-60 meters, provision, and installation of 8” casing and filter pipe along with filling by river gravel with sizes from 3 to 6 mm, cleaning, development, testing and chlorination of the water wells to make the well is fully functional and sustainable for futures operation and use. and the vendor should install the available pump already exist in the facilities.

**Provision of Solar Panels and improvement of system electricity:**

This includes the provision of solar panels with specific quantities for each HF, as well as the improvement of the facility's overall electrical system as detailed in the project BoQ and drawings. This includes but is not limited to the provision of materials such as wires, batteries, charge controller, changeover, sockets, switches, cabling, nuts & bolts, solar panels, etc… and installation to result from system sustainable operation and functionality as mentioned in the project BoQ and drawings. The materials should be best quality and samples of the materials should be checked and verified by the IRC engineer before use.

**Construction of new septic tank (3.4 x 2.4) m:**

This is the construction of a new septic tank for the existing HF wastewater (sewage) system. The work includes but is not limited to the construction of these septic tanks with details mentioned in project BoQ and SoW as well as connecting the tank with existing and new toilets and handwashing system and sinks and with other HF facilities grey and black water piping that might require to be connected. Specific activities in this include the excavation for the tanks, shuttering and rebar bending works for septic tank walls and top slab, plaster works, trench excavation for the pipe lining, provision of pipe and installation, and connection to the existing sinks, toilets, handwashing stations, etc. For the details kindly refer to the attached drawings.

**Construction of footpath:**

This activity includes surface preparation, excavation of the base of the footpath, filling with gravel with a thickness of 5cm, and purring the concrete with a thickness of 10 cm as detailed in the project drawings. All materials, tools, labor, and construction costs are up on the vendor. The gravel used under the PCC should be river gravel with a size of 6 mm to 15 mm and the mark of concrete should be M-200 with a ratio of 1:2:4.

**Construction of Guard Room:**

This includes the construction of a guard room with size of 3m x 3m. The activities include the exaction of foundation, foundation stone masonry, brick masonry for wall, construction of room slab using the I steel beam and wooden timber and mud and straw, plaster work with thickness of 1 to 2 cm with smooth surface, curing and water of overall concrete and reinforcement concrete, provision and installation of wooden doors and windows with glass thick 4 mm, electricity system complete such a joints box, switch, lights, fans, and wiring, and with final painting and furnishing work as detailed in the project BoQ, drawings and this SoW.

**Rehabilitation and Improvement of HF Water Supply System:**

This is the repairing and rehabilitation of HF's existing water supply networks that include the provision and installation of the water tank, removing the damaged section of the network and replacing it with a new one, as well as provision and installation of new gate valves, check valve, water tape, and any other fitting materials required for operational and functional water supply system. The vendor shall make sure that the system is connected professionally with tanks and water sources and that water distribution in the system is sufficient and reliable with proper pressure. For the details and system requirements see the attached drawings and project BoQ.

**Rehabilitation and improvement of sewage system:**

This is the rehabilitation of all HF sewage systems and to make sure the system is fully functional and reliable, and the HF wastewater (black and Gray) does not pose a threat to the people and environment and should be a responsive system. This includes the removal of damaged sections of sewage and replacing them with new ones, connecting all sewage facilities to sewage networks such as new toilets, existing toilets, sinks, commodes, septic tanks, construction and repairing of system manholes and clean outs, etc, for the details refer to the attached drawing and project BoQ. All materials, staff, and equipment delivery to the project site and completion of this rehabilitation work is the vendor's responsibility.

**Boundary wall construction:**

This Boundary wall is just for the Khan Abad HF, and the work includes the provision of tools, materials, equipment, and labor to construct 120 long boundary walls made of a stone masonry foundation, brick masonry wall body, and plaster works along with the provision of and installation of the main entrance gate along with the construction of RCC columns. The details and dimensions of the gate are shown in the technical drawings.

**Culverts Construction:**

This is the construction of an 8 m length pipe culvert in Archi HF as shown in the drawings, this includes the excavation of ground for RCC pipe, provision, and installation of RCC pipe with side support by brick masonry and with PCC slab on top of the culvert with the thickness 100 cm.

**General Construction materials and activities Specifications:**

**Mobilization, site preparation and demobilisation:**

For the implementation of this project, the contractor shall do site preparation and mobilization of all four targeted Health facilities before commencing, during work, and after completion of work, this includes mobilization of tools, equipment, materials storage, and human resources, as well as removing grass, levelling the ground, and removing of old cement, sand, and debris from the area where the work should be done and removing the disposal materials out of the project site and to a disposal site assigned by the community and local government.

After completion of the activities, the area should be carried back to normal condition and demobilized at the project site.

**REINFORCED CEMENT CONCRETE (RCC)**

RCC will cast for the foundation, Beams, columns, slabs of the septic tank, guard room, toilets, incinerators, and pits (Placenta, Ash, Refuse, Sack Away, and Sharps as explained above and shown in the drawings, should be M-200 with ratio of 1: 2:4.

**Steel bar FOR RCC:**

All steel rebars will be according to the standard steel specification, the contractor will be responsible for preparing the required shape bars in each type of work and all steel will be clean and have no rust. Steel quality will be approved before purchasing or using a sample will be submitted to EH Engineers or to the IRC-related office and the ASTM code will be considered to achieve the quality.

**SHUTTERING (FORMWORK)**

Shuttering should be correct according to the dimensions of the objects, plywood/wooden planks or steel formwork can be used and should be cleaned and clear surface to get good quality RCC concrete, shuttering will be safe and tight. After standard days and conditions of de-shuttering for each element of the RCC concrete should be considered by the contractor then formwork can be removed, which means stick to the correct times for removal of Molds and shuttering.

**PLAIN CEMENT CONCRETE (PCC)**

PCC will take place on pavements, under the foundation of RCC members, stand tap works, foundations of the incinerators, and on the bottom of the pits and have PPC work for Ceramic work so also have PCC for levelling under bitumen. PCC will be of indifferent marks shown in the BOQ for each type of work. Crushed aggregates of maximum size 25 mm, sand of Fineness modulus (1-3) mm, and cement according to ASTM C150 will be used in making the concrete mix. The usage of gravel is not allowed in any part of the work.

The water used for every concrete part needs to be clear (turbidity less than 5 NTU) and not have more clay-suspended particles so that can absorb the cement.

Mixing will be carried out in a well-prepared area (no trash, dust, branches, or grass), where the procedure is to dry-mix the cement, sand, and gravel, turning over the heap regularly. Once the dry materials are properly mixed, a crater will be prepared, into which a suitable quantity of water will be poured.

The concrete will be smooth to avoid any kind of deterioration which can be caused by water or something else.

Do not add too much water to avoid excessive shrinkage and separation/segregation of the concrete.

Protect cast concrete from the sun (plastic sheeting, cement bags, mats, etc.) and moisten exposed surfaces, covers, and shuttering to ensure slow drying and sufficient humidity for the chemical reaction of hardening to continue.

Vibrate the concrete well to compact it.

Curing will be considered for a minimum of 7 days after the shuttering is removed.

**Brick masonry:**

Brick masonry is used in each part specified on the drawings, BOQ, and this SoW, the contractor should use first brick and mortar M:150 with a ratio of 1:3 based on engineering norms and standards.

The incinerators should be built with refractory materials (Heat resistance bricks and cement) to extend their lifetime and to have less temperature variations when new or wet wastes are introduced, Brick masonry for separate walls at toilets and brick masonry for the water tank to move it at the peak point for water pressure.

The contractor should use 1st class brick during the construction of pits. The strength of bricks should be around 140 kg/cm2 of brick area. During brick melding, no saline deposit should be used. Bricks will not absorb water more than 20% of brick weight when immersed in water for 24 hours. For brick masonry sand cement mortar of 1:4 will be used. These walls perform as load-bearing walls, thus essential care is required during its construction regarding alignment, curing, and mortar quality.

**Bricks for Incinerators:**

The incinerators should be built with refractory materials (Heat resistance bricks and cement) to extend their lifetime and to have less temperature variations when new or wet wastes are introduced, Brick masonry for separate walls at toilets and brick masonry for the water tank to move it at the peak point for water pressure.

**Play wood Partition wall:**

On the plywood separation wall contractor must use Khar wood for the frame by the specified size in the drawing and cover both areas of the frame with plywood 8mm of good quality and end do paint for all constructed areas.

**Ceramic Tile work:**

For working on ceramic at the mentioned HFs the ceramic must have the best quality from different sizes (50\*50 and 35\*35) cm, also must prepare and level the area before it and use 1:4 mark of the cement to working, the strength of tiles for walls and floor will be around 250kg/cm2 of tile area.

**Tills installation concept for mud brick wall:**

The process includes constructing of half brick partition wall parallel to the mud brick wall surface vertically, with the securing of 6-inch nails into the brick and mud wall, it is worth mentioning that 8 nails should be inserted in each squire of newly burned brick masonry partition, then 3 to 4 cm cement mortar should be used and installing the ceramic tile on the wall surface. For details, please refer to the attached drawings and under the assigned engineer instructions.

**Backfilling:**

The execution place must be backfilled after improving work, the contractor should backfill by layers at every part excavated, every layer must have 25 up to 30 cm trichinizes and after filling of every layer must be compacted by compaction machine and the end contractor must be done site cleaning and demobilization of overall rehabilitation area.

**Plaster work:**

Cement sand plaster is required for walls, columns, beams, ceilings, interior and exterior of water, inner and outer faces of septic tank and outside face of walls with cement sand mortar (1:4). The plaster will be straight and not having vertically and horizontally up and downs beyond 5 mm the plaster work should be based on needs. Before starting plaster, contractor will ensure curing to ensure the quality of plaster. After finishing plaster, curing is required for 14 days.

**Painting work:**

Painting of walls, ceilings, oil painting of doors & windows, fence and windows will be carried out by the contractor. Contractor will provide and apply three coats of washable painting emulsion paint to interior plastered surfaces and water repellent, high breathable painting to exterior faces of walls. IRC staff will select colour and brand of paint.

**General water supply work:**

Water Supply work for health facilities, includes provide and installation of Submersibles with Solar system for providing of water to reservoirs tank in health facilities, extension of pipes for water point to the reservoirs and water tanks and from reservoirs to the water networks of health facilities, installation of wash basins and their plumbing works, taps, showers. The plumbing work will be of PPR, PVC. PPR pipe Polyethylene of ¾ - 1and 1inches will be used for connecting water tank and pipelines. In addition to it, this work also includes required fittings for water supply in health facilities and contractor will lead the grey water of each sink to the channelled way in the PVC pipes, the PVC and PPR pipe Polyethylene pipe will be correctly installed using specified Anchor, hinges and bolts. All fitting will be of good quality and will be correctly fixed by the skilled and qualified labours, if the skilled labours were not qualified the IRC EH engineers reserve the right to remove such kinds of labours and the contractor will replace that immediately and the work delay will not have considered over the IRC, but the contractor will complete the work according to the schedule plan. The contractor will fix all these instruments as per IRC engineering team guidance.

**Water Tank:**

Contractor should install all new water tank at HFs, the water tank will make from metal by the volumes of 2000 &1500 Litters, gage 1mm, and cover to glass wall, contractor must reserve all necessary equipment for installation of water tank to the water network and water well according to direction of responsible engineer and specification.

For pressure of water to the boiler contractor should construct stand for water tank from brick masonry according to the engineering norm and standard.

**Pipe Extension:**

The PPR pipes for supply of the water from water sources to the health facility will be used. (3/4-2) inches in diameter of PPR pipe will be used. Placing of these pipes will need excavation and backfilling of trenches of sizes almost 20 x 30cm and on the walls and on the roof as well.

**Materials and equepment Specification:**

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| --- | --- | --- |
| S/N | Description | Photo |
| 1 | Solar panel of 350-Watt, size: Approx. 1720mmX 1130mm brand or equivalent available in the market | 350 Watt Solar Panel Price EITAI Mono PV Module - Eitai Solar System |
| 2 | Hybrid inverter 5 KW best quality or equivalent available in the market | 5KW Hybrid MPPT Solar Inverter SolarPolo_SankoPower Solar System was  established |
| 3 | Acid-flooded Batteries 200 Ah, 12, minimum 1200 cycle @ 80 %(DOD) for night lighting  Available in the market | 200AH/12V Ritar Dry Cell Battery - CEETRON TECHNOLOGIES LTD |
| 4 | steel rod best quality for curtain with |  |
| 5 | curtain(parda) from saatan sheets best quality h=3m to hanging steel rod and fittings on the top of windows and doors | پرده پانچ زیبایی، دوام و نصب آسان را با خود به ارمغان می‌آورد! |
| 5 | Solar water heater Inner tank stainless steel SUS304, 0.4-0.5 Outer tank Galvanized steel (JNYL Series) 150-liter best quality or equivalent available in the market |  |
| 6 | Glass wool for covering the new water tank and all pipes with thickness 10mm. | Glass Wool – Rock Wool Insulation – Sankalp Preformed Systems Pvt. Ltd |
| 7 | metallic water tank (1500 litters) from galvanizes Iron sheet of 1mm gauge best quality available in the market. | بایگانی‌ها منبع آب - تانکر مارکت |
| 8 | Exhaust fan plastic with back sheet (25\*25)(40\*40) cm. | 25 W Plastic Electric Ventilation Fan, Size: 5 X 5 Inch at Rs 1500/piece in  Hyderabad |
| 9 | Fanner (15m length) for opening of Sewer system. | فنر لوله بازکنی - خرید و قیمت فنر لوله بازکن خانگی و صنعتی |
| 10 | flush tank at male and female toilets. | TURKEY DUAL FUNCTION MEGA FLASH TANK 3022 : Amazon.ae: Home |
| 11 | Complete set of Shower with Muslim shower. | Exposed Shower System Polish Chrome 3 Functional Bathroom Shower Set 9 |
| 12 | Sinks mirror (40\*60)cm High. | راهنمای خرید آینه حمام حرف تازه |
| 13 | Hand Liquid Holder Best quality. | 2pcs Soap Dispenser Wall Mounted Holder, 450 Ml Hand Liquid Shampoo Shower  Gel Dispenser Press Foam For Bathroom Kitchen Office (b-l2) | Fruugo NO |
| 14 | AC water heater 80 litters (Ariston) or equivalent available in the market best quality | 80-Liters Ariston water heater – Bathrooms365 – Bathroom fittings supply  company in Nigeria |
| 15 | Water closet(commod) complete set. | طراحی سرویس های بهداشتی - گروه معماری هورنوابعاد توالت فرنگی و اندازه استاندارد توالت فرنگی وال هنگ - چیدوپلاس |
| 16 | sink Complete set. | Hindware Full Pedesatal Wash Basin Complete Set Michelangelo 10040 (58X43)  Pedestal Basin Price in India - Buy Hindware Full Pedesatal Wash Basin Complete  Set Michelangelo 10040 (58X43) Pedestal Basin online at Flipkart.com |
| 17 | Ceramic work (30\*30) or (50\*50) cm best quality. | ابعاد سرامیک کف چقدر است؟ |
| 18 | Tile work (60\*30) cm best quality. | قیمت،خرید جزئی و عمده انواع کاشی سرامیک 30 در 90- مانامستر |
| 19 | ceiling fan Al-shaikh or equivalent- available in the market 220V- 110W | خرید و قیمت پنکه سقفی الشیخ خارجی پاکستانی فوق‌العاده باکیفیت تر از نمونه  های مشابه ایرانی از غرفه ترشی انبه عبداللهی غرفه برتر در کشور |
| 20 | Clear Acrylic sheet (240\*120\*0.6)cm | Rectangular Shape Acrylic Plastic Sheet at Affordable Price, Rectangular  Shape Acrylic Plastic Sheet Trader,Supplier in New DelhiTransparent Acrylic Sheet (P.S.Sheet) - 1MM at best price in Mumbai | ID:  19390281473Transparent 6mm Acrylic Sheet, Size: 4x8 ft at Rs 1800/sheet in Pune | ID:  2849631165162 |
| 21 | Plastic paint NIKON or equivalent available in the market best quality | NIKON Paints | Lahore |
| 22 | Oil paint Beraj or equivalent available in the market best quality | Beraj Paints |
| 23 | copper wire 1\* 2.5 mm2 from main electric source available in the market | 1 Core 1.5mm 2.5mm 4mm Copper Flexible PVC Wire Cable Price - China  Flexible PVC Wire Cable, Wire Cable Price | Made-in-China.com |
| 24 | copper wire (1\*1.5)mm2 for inside electric system | Buy Dependable Wholesale 1.5 mm electrical wire - Alibaba.com |
| 25 | Supply and installation of main joint box. | Junction box M20/M25 175x110x66 |
| 26 | fuse box. | جعبه فیوز 24 عددی ویکتور مدل توکار خرید و قیمت |
| 27 | fuse 16 Ahm 32 Ahm and 20 Ahm | Fuse/Fuse holders – TDSI |
| 28 | change over 100 Ahm. | HAVELLS SIDE HANDLE CHANGEOVER SWITCH – 100A – Electric Mall |
| 29 | Bulb with holder 15–25-Watt best quality | Feit Electric 150-Watt Equivalent Oversized High Lumen Daylight (5000K) HID  Utility LED Light Bulb (1-Bulb) T80/2600/5K/LED/HDRP - The Home DepotLED Ceiling Light - Round, 18W silver |
| 30 | waterproof lamp for toilets available in the market. | AL71 300mm Waterproof Bathroom Ceiling Light Fixtures - UPSHINE Lighting |
| 31 | Single switch and two-way switch | Turkish Switches And Sockets | DCZ Elektrical and Automation | Turkey3D Electrical Wall Double Switch With Up Down Symbol - TurboSquid 1809134 |
| 32 | single socket | merxu.com/media/v2/product/large/single-socket-out... |
| 33 | Switch for ceiling fan | 86 Type Ceiling Fan Adjustment Stepless Speed Controller Wall Switch 220V  10A | eBay |
| 34 | Door lock best quality | Atom Heavy Duty Mortise Door Lock for Bedroom, Living Room, Main Door,  Silver Satin Finish | 3 Keys | 6 Lever Double Stage Lockset for House Hotel  Office(803KY): Buy Online at Best |
| 35 | 1\*35mm2 cable for connection of batteries to inverter | Battery Cable: 35mm (+) Positive (Red) (BC35+) - Solar Europe Importers |
| 36 | PPR pipe for water supply 1” and 1,5” | Heavy Duty supreme ppr Pipe SOLD per Tube (4meters) sizes is 1/2(2.8mm) and  3/4(3.5mm) , 1 (4.4mm) | Lazada PH |
| 37 | Glass film 0.66mm best quality available in the market | Clear Security and Safety Window Film Shatterproof Film for Glass Windows  Anti Shatter Tempered Glass Film for Home and Office |

**Warranty**

The contractor shall guarantee that all work performed will be free from all defects in workmanship and materials and that all installations will provide the capacities and characteristics specified. The contract further guarantees that if, during a period of three months from the date of the certificate of completion and acceptance of the work, any such defects will be repaired by the contractor at his own cost.

**Site Visit and Pre-bid meeting**

It is mandatory the interested vendor should participate in the project site visit and pre-bid meeting. review and analysis the project location, current condition, raising question regarding the drawings, specifications, project SoW as well as in the RFP prior filling the bid technical and financial documents and submits.

Basis for Evaluation:

IRC intends to award a subcontract resulting from this solicitation to the responsible offeror whose proposal represents the best value to the health facilities rehabilitation in the above province after evaluation of the following criteria, with the weights applied accordingly:

* **Proposed Methodology and Technical Solution 10 Points**

The offeror shall be evaluated on the overall understanding of the scope of work. Specifically, the offeror shall be evaluated on how realistic the proposed technical solution is in completing projects on schedule and meeting delivery guidelines. This technical solution shall integrate design methodology, procurement process, construction methods, techniques, project scheduling, and project management to deliver the required scope of work with the highest construction quality. Special consideration shall be given to the offeror’s ingenuity, creativity, and use of sound engineering principles specifically in health facilities improvement in its proposed solutions. The offeror’s proposal shall include a draft work plan providing a step-by-step process for executing every phase of the work most efficiently.

* **Key Personnel 10 Points**

The offerors should provide a project-led organization chart and key personnel shall be evaluated on the experience of the team members with similar projects. In particular, special consideration will be given to a well-experienced Project Manager, Civil/Structural Engineer, and Construction Manager.

* **Past Performance and Experience 15 Points**

The offeror shall be evaluated on the experience the firm has with related projects of similar scope and size. Special consideration shall be given to firms having executed such projects in the above-mentioned provinces**.** The references listed by the offeror shall be contacted to complete a survey.

* **Proposed Schedule of Implementation (Gantt Chart) 15 Points**

Due to the nature of this project, time is of the essence. Therefore, special consideration shall be given to the offerors with an aggressive but realistic timeline for completing each phase of the scope of work as well as the overall implementation plan that meets the desired goals stated herein. A detailed draft work plan shall be included in the offeror’s technical volume.

* **Vendor annual turnover 10 Points**

Bank statements, audit reports, and cheques of transportation services turnover in terms of US dollars should not be less than 100000 $, and special consideration shall be given to firms have exceed 100000 $.

Once the technical evaluation of offers is completed based on the above criteria, the Cost Volume will be used in conducting the best value analysis (**Financial Offer @40% - Base Price or Lowest Price \* 4 / Offered Price)**. The cost will be evaluated (after this pre-qualification process) based on cost reasonableness, allowability, and realism. A technical/cost trade-off analysis will be performed by IRC to determine the best value for the project.