

RDMC & IHHN's Project

- 1 The contractor shall visit the proposed site to familiarize himself with the required scope of work and the existing site conditions. Unit price shall include costs of the needed material and the workmanship which are required to complete the work. The price shall include costs for making the necessary temporary works to ensure the safety of the visitors of the functioning school and to protect the finished works rendered in the existing community. Price shall also include cost of hauling away the demolished material. The contractor shall preserve, protect and make the necessary works to maintain the existing electro-mechanical system to serve the functioning school.
- 2 Quotation given by the contractor on this BOQ are to cover any and all additional materials, labor or associated costs to complete the works as documented on BOQ & Drawing
- 3 Eventual claims for extra works will be covered in final bill after approval of RDMC's Construction team

PREAMBLE TO BILL OF QUANTITIES for Tang Kacha Fix Facility (BOQ)

NOTE *The Contractor has responsibility to compliance all safety requirement including PPEs & enclosed Hot work permit will be implemented w.e.f date of start of work. NO SMOKING ON SITE*

GENERAL

- 1 The nature of this contract is measured unit price contract and the Bill of Quantities (BOQ) shall reflect this fact.
- 2 BOQ shall be read and construed in conjunction with other Contract Documents.
- 3 General directions and description of work and material given in the Technical Specification are not necessarily repeated in the Bill of Quantities. The Technical Specification forms an integral part of the Bill of Quantities.
- 4 The Tenderer is deemed to have visited the site and fully acquainted himself as to the location of each work to be carried out and to all conditions which may affect the performance of the works.
- 5 All quantities given herein shall be deemed to be estimated quantities of the work to be done but they are to be taken as actual and correct quantities of the work to be executed & documented as per site requirement/ measurement.
- 6 Retention money 5% of total contract will be release after successful completion of Maintenance period which shall be 12 months from the date of issue of certificate of Substantial Completion.
- 7 It shall be contractor's responsibility to arrange electricity, water, temporary facilities and storage for construction purpose etc. at his own cost. Consumption charges are also to be borne by him.
- 8 The Contractor need to agree to have the necessary registration with all the required Government institutions like EOBI, PESSI, SESSI, etc. and pay all their dues/liabilities with respect to your organization and your employees whether Permanent or temporary.
- 9 The contractor shall not sub contract the original contract to any other party/contractor without approval of owner (TIH) Head of Construction department.
- 10 If the progress of work shall be delayed due to reasons beyond the control of contractor the contractor will notify TIH giving complete justification and the Architect/Engineer may recommend the extension for approval.

- 11 All materials used are to be of the best new available and subject to the Employer/Engineer approval, and of durable nature, guaranteed, not liable to any base exchange and manufactured according to applicable BS, ASTM or DIN Standards. Execution also is subject to approval of Employer/Engineer and shall be the best available common practice in engineering codes at the time of execution.
- 12 Items that contain materials or products of special make with names of manufacturers are to be taken as samples of what will be required. Subject to the Employer/Engineer approval, the Contractor may, at his discretion, offer similar products of other make if the equivalent quality of the specified materials is guaranteed. In this case, the Contractor shall submit a description and/or drawings showing all technical conditions, characteristics, make, type and address of Manufacturer, etc., of the materials offered as alternatives.
- 13 The works, materials or activities listed in the following shall always be considered as auxiliary works to be included in the Unit Prices bid for any item in the Bill of Quantities:
- 13.1 Any measurement for execution and payment of the works, including the provision of measuring instruments, gauges, setting out marks, marking paint and relevant tools, labor, etc., the maintenance and preservation of gauges and setting-out marks during the execution of the works.
 - 13.2 Provision of small tackle tools or any other equipment required for the execution of the works.
 - 13.3 Supply of consumable for the Contractor's equipment
 - 13.4 Removal of all contamination (refuse, debris, building rubbish and the like) arising from or in connection with the Contractor's work.
 - 13.5 Protection of the executed works and of the items made available for execution of the works from damage, fire, inclement weather, vandalism and theft etc., to the time of final acceptance.
 - 13.6 Transportation of all materials and structural components from the storage places on site to the points of use and return transportation, if required.

- 13.7 Submitting and transporting any samples required
- 13.8 Carrying out tests on materials and works, etc., that is required by the Engineer
- 13.9 All safety precautions and measures for safeguarding labor as well as securing surrounding areas.
- 14 **The following rights are reserved to the Employer/Owner.**
 - 14.1 To omit individual items mentioned in the Schedule of Prices if not required in the opinion of the Employer and/or to replace them should it be more advantageous to execute them in another way.
 - 14.2 To order execution of alternative or provisional items as if they were main items.
 - 14.3 To order execution of additional works as well as alternatives of works, always in conformity with the conditions outlined in the Contract.
 - 14.4 Any order and/or delivery of material or equipment by the Contractor for performance of the works may only be based on instructions and/or approved execution drawings by the Employer/Engineer.
All equipment and materials for installation and finishing works to be incorporated in this contract shall prior to
 - 14.5 ordering and/or delivery by the Contractor, be approved by the Employer/Engineer both in respect of quality and type as well as of quantity.

SITE ACCESS AND EXECUTION

- 15 The Contractor shall obtain all clearance from Owner (TIH), as may be required from time to time, prior to start of work. Work without permit shall not be carried out within the existing premises.
The Contractor shall obtain plans & full details of all existing & planned facilities/ services/ utilities from the owner (TIH)
- 16 and follow these plans closely at all times during the performance of work. Contractor shall be responsible for location and protection of all facilities/ utilities and structure at his own cost.
- 17 Despite all precautions, should any damage to any structure/ utility etc. occur, the contractor shall carry out repair at his expenses under the direction and to the satisfaction of engineer-in-charge & the Owner/ concerned authority.
All costs of labor, works, provisions, materials and equipment for Site Installations required by the Contractor and
- 18 stipulated in the Tender Documents shall be included in the various unit prices of the Bill of Quantities. No extra payment will be allowed by the Employer for any of these activities
- 19 The Contractor shall clean & keep clean the work site from time to time to the satisfaction of site engineer for easy access to work site & to ensure safe passage, movement and working
- 20 It shall be responsibility of the Contractor to safeguard all his materials/ owned from theft, damage etc.
It shall be the responsibility of the contractor to obtain the approval for any revision and/or modifications decided by the contractor from the Owner / Engineer-in-Charge before implementation. Also such revisions and/or modifications if accepted / approved by the Owner/Engineer-in-Charge shall be carried out at mutually
- 21 agreed cost to the owner. Any change required during functional requirements or for efficient running of system, keeping the basic parameters unchanged and which has not been indicated by the contractor in the data / drawings furnished along with the offer shall be carried out by the contractor at mutually agreed cost to the owner (if applicable).
All expenses towards mobilization at site and demobilization including bringing in equipment, work force, materials,
- 22 dismantling the equipment, clearing the site etc. shall be deemed to be included in the prices quoted and no separate payments on account of such expenses shall be entertained.
It shall be entirely the contractor's responsibility to provide, operate and maintain all necessary construction
- 23 equipment, steel scaffoldings and safety gadgets, cranes and other lifting tackles, tools and appliances to perform the work in a workman like and efficient manner and complete all the jobs as per time schedule.
The procurement and supply in sequences and at the appropriate time of all materials, and consumables shall
- 24 be entirely the contractor's responsibility and his rates for execution of work will be inclusive of supply of all these items.
Contractor shall be responsible for proper coordination with other agencies operating at the site of work so that
- 25 work may be carried out concurrently, without any hindrance to others. The Engineer in Charge shall resolve disputes, if any, in this regard, and his decision shall be final and binding on the Contractor.
The work shall be carried out if required on round-the clock basis including holidays depending upon the nature of
- 26 the project. Contractor's quoted rates are deemed to include expenditure towards working on round-the clock basis and holidays However, Contractor's representative shall be available for overseeing the works at all times.

27 The Contractor shall carry out the various tests as per technical specifications of technical documents that will be furnished to him during the performance of the work at no extra cost to the Owner.

28 All the tests either on the field or at outside laboratories concerning the execution of the work and supply of materials by the Contractor shall be carried out by Contractor at his cost.

29 The work is subject to inspection at all times by the Engineer-in- Charge. The Contractor shall carry out all instructions given during inspection and shall ensure that the work is being carried out according to the technical specifications of this bidding document, the technical documents that will be furnished to him during performance of work.

30 All results of inspection and tests will be recorded in the inspection reports, pro-forma of which will be approved by the Engineer-in- Charge. These reports shall form part of the completion documents. Any work not conforming to execution drawings, specifications or codes shall be rejected and the Contractor shall carry out the rectifications at his own cost.

31 After completion of all tests as per specification the whole work will be subject to a final inspection to ensure that job has been completed as per requirement. If any defect is noticed, the Contractor shall be notified by the Engineer-in-Charge and he shall make good the defects with utmost speed. If, however, the Contractor fails to attend to these defects within a reasonable time (time period shall be fixed by the Engineer-in-Charge) then Engineer-in-Charge may have defects rectified at Contractor's cost by engaging a third party.

32 The contractor shall provide all instruments, tools, necessary testing and other inspection facilities to inspection engineer of Owner free of cost for carrying out inspection.

33 The contractor shall comply with the instructions of the Inspection Engineer fully and with promptitude.

34 The following documents shall also be submitted by the Contractor in triplicate as part of completion documents:

- a) Certificate for materials supplied by the Contractor.
- b) Certified records of field tests on materials / equipment, as applicable.
- c) Material appropriation statement as required.

Three sets of drawings showing therein the as built conditions of the work duly approved by the Engineer-in-

- d) Charge along with one set of reproducible on polyester film (drawings prepared by Contractor) along with soft form of the same.
- e) Other documents as mentioned in Technical Specification.

35 **"AS BUILT" Drawings**

Upon completion of work, the Contractor shall complete all drawings to "As built" status (including all vendor / Sub – vendor's drawings for bought out items) and provide the Owner, the following:

- a) One complete set of all original tracings / reproducible along with the soft form of the same.
- b) Three complete sets of prints.

36 Qualification and experience of key supervisory construction personnel to be deployed for this works shall be as given hereunder. CONTRACTOR shall submit bio data of key supervisory personnel meeting the requirement as given hereunder, after award, which will be reviewed and approved by Engineer-in- charge. However, deployment of qualified and experienced supervisory personnel of the CONTRACTOR shall be commensurate with the project work load and as approved by Engineer-in-Charge and / or OWNER .

Basic Health Unit (BHU) Tang Kacha

Summary Sheet for Construction works

Primary Care Health Unit - Tang Kacha, Nokkundi, District Chagai, Balochistan

Bill of Quantity is issued for guidance only. It will be the responsibility of the contractor to complete accordance with the drawings and BOQ and site requirements, which shall be binding. Errors in this be pointed out to the client immediately before submission of the bid. In case of any conflict, the m requirement shall be deemed to be included in the contract. The decision of the IHHN shall be final Technical submittals along with samples of material shall be furnished for approval by the contracto to site will be compared against sample provided.

Contractor to do field measure dimensions before commencement of work. All installation accessor materials as required for installation & commissioning and operation of the system shall be included cost.

Main Building: (1200 SFT Covered Area)		
1	Civil Works	
A	Earth Works	
B	Structure Works	
C	Finishes	
D	Misc. Works	
Total Civil Amount		0
2	MEP Works	
A	Electrical-Supply & Installation Works	
B	Split AC-Supply & Installation Works	
C	Plumbing-Supply & Installation Works	
Total MEP works Cost		0
3	IT Works	
A	Network Cabeling (Passive Work)	
Total IT Cost		0
Total Building's Covered area Cost		-
External Associated works		
1	External Works	
A	Misc external development works - Civil	
B	Misc external development works - MEP	
External Civil works Cost		0
Total Construction Work's Cost		-

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Sr.#	DESCRIPTION OF ITEM	UNIT	QTY	Material + Labor		Total
				RATE (Rs.)	AMOUNT (Rs.)	
IMPORTANT NOTE: The Tenderer is advised to read carefully & understand the terms of contract, specification and acknowledge. The tenderer will bear the cost of miss-understanding & misinterpretation of the terms/ specifications. 1- The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications, Drawings and requirements and the Tenderer shall provide against the bill rates or in the prices for the full scope of the work covered by the Contract. 2- The various documents collectively referred to herein as the Bill of Quantities shall jointly constitute the Bill of Quantities referred to in the Conditions of Contract and these preambles/statement of works are to be read in conjunction with item descriptions in the Bill of Quantities. 3- All items in the Bill of Quantities shall be deemed to have a monetary value, whether priced or unpriced. In the absence of a unit rate or price against any item, the cost shall be deemed to have been included elsewhere within the Contract Price and the work described to that item shall be executed by the Contractor without any additional payment. 4- Any additional work other than this BoQ, contractor will take written cost approval before execution, any such work executed without prior written approval will not be entertained. 5- All PPE & safety measurements should be followed during construction. 6- Contractor should visit the site before the submitting of quote/rate. 7- Activities will be performed as per the availability of the area. 8-The contractor will provide construction schedule and necessary shop drawings before start construction. Any cost incurred in the documentation shall bear by the contractor. 9- The contractor will read & acknowledge the terms of contract, preambles, BOQ/ drawing specification on submission of tender document/ quotation. 10- Contractor will provide necessary test reports for construction material & activities i.e. block, steel, concrete cubes from reputed lab at his own expense. 11- Cordon off the area before start of construction activities (if required). 12- Defect liability period will be six month and 5% retention will be deducted for the same. 13- Site Located at Rekodiq Project near Taftan Border.						
A	Foundation Works					
1	Cutting					
	Ground required cutting for levelling, Disposed off the cutting earth material	CFT	5600			0
2	Levelling					
	levelling of ground required for BHU structure	SFT	12,000			0
3	Excavation					
	Excavation for foundation in all kinds of soils, dry or wet, hard or soft up to 2'-0" from Natural Ground Level (NGL) including all operation of site clearing, disposing of surplus earth outside premises or as per instructions of consultant / Engineer in-charge.					
3.1	Excavation for Foundations	CFT	4,287			0
4	Back filling/ Earth filling					
	Supply and filling of outside earth fill material and filling excavated earth in plinth and Under floors including breaking clods, levelling & dressing, watering & consolidating by ramming/by compactor in layers not exceeding 9" depth to obtain 95% modified AASHTO density including all lead & lift & as per instructions of Consultant / Engineer in-charge.					
4.1	Backfill with surplus material	CFT	4287			0
4.2	Earth fill with excavated from outside	CFT	3033			0
5	Stone Soling					

	Providing & laying stone soling (6" thick) of approved quality under foundations & floor including hand packing vertically & filling voids consolidating & compacting with mechanical means by compactor as per instruction of the Consultant / Engineer in-charge.					
5.1	6" thick Stone Soling for foundations	CFT	735			0
5.2	6" thick Stone Soling for floor	CFT	868.083			0
6	Termite Treatment					
	Providing and carrying out termite proofing by spraying anti-termite queen killer, with Terminix 25 EC Fipronil liquid mixed with water in the specified ratio and as per instructions of the manufacturer under floors over the filling and all peripheral sides of the trenches for foundations. Complete in all respects and as directed by the Engineer.					
6.1	Termite proofing	JOB	1			0
Total of Section-A						0
B	Concrete/Structural Works					
1	Plain Cement Concrete					
	Providing & laying Plain Cement Concrete of specified grade where required using approved quality 3/4" max size graded crushed aggregate with approved quality local river sand including all form work rodding, vibrating leveling, compacting & curing etc. complete in all respect as per drawings, specifications & as per instructions of Consultant / Engineer In-charge (SR Cement should be used for all sub structure works).					
1.1	PCC Situ Pouring (Providing and laying in situ cement concrete using approved coarse sand and crushed aggregate having maximum size upto 3/4" (19mm) and down gauge in foundation including formwork using wooden braces and without wall ties, compaction, curing and removal of formwork. b) 1 : 3 : 6.	CFT	2500			0
1.2	4" thick PCC 1:3:6 for floor	CFT	1300			0.00
1.3	4" thick and 12" wide 1:2:4 DPC under walls & entrance over plinth beams using pudlo as per manufactures instructions	RFT	450			0
2	Reinforcement Cement Concrete (RCC)					
	Providing, making and laying (RCC) Reinforced cement concrete work of any thickness of specified grade where required using approved quality 3/4" max size graded crushed aggregate with approved quality local sand, including all form works and its removal, rodding, vibrating leveling, compacting & curing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding etc. complete in all respect as per drawings, specifications & as per instructions of Consultant / Engineer In-charge (SR Cement should be used for all sub structure works).					
2.1	RCC 1:2:4 for column and also for Column Footing of (3' * 3')	CFT	767			0
2.2	RCC 1:2:4 for plinth beam	CFT	735			0
2.3	RCC 1:2:4 for Lintel (cantilever window projection)	CFT	100			0
2.4	RCC 1:2:4 for Roof Slab	CFT	1321			0

2.5	Providing & laying 2mm thick aluminum bituminous membrane (Hy-grip) in single layers for waterproofing on existing RCC roof, Cleaning of roof and slab cracks with brush to prepare surface before application of waterproofing membrane along with use of primer coat on whole surface. Including fill hot bitumen or joint sealant in roof cracks after application of primer and testing of water leakage and its arrangements will be on contractor's scope. Vendor is bound to provide warranty not less than 5 years. During aforementioned period he	SFT	2200			0
3	Block Masonry In Superstructure					
	Providing and laying 6" thick block masonry work in 1:4 Cement Mortar (1Cement : 4 Coarse Sand by volume) in true line, level and plumb for internal partition walls, etc., complete with necessary scaffolding, raking of joints, curing etc.					
3.1	7" thick block masonry above plinth for internal walls	CFT	1400			0
Total of Section-B						0
C	Finishes Works					
1	Plaster Work					
Supply, providing and applying 12mm thick cement sand plaster ratio (1:4) on walls internal sides, including making edges, corners, making provision for windows and doors including curing staging and scaffolding etc. The cost shall include providing and fixing chicken wire mesh with washered nails over all joints / Cuttings of wall complete in all respects and as directed by the Engineer In charge.						
1.1	3/4" thick OPC for External plaster	SFT	3,015			0
1.2	1/2" thick OPC Internal plaster	SFT	5218			0
2	Wooden/Fiber Doors					
Providing & fixing 2" thick best quality approved laminated flush/solid door with paint finish G.I door frame (6" x 2") 18 SWG with wooden lipping polish finish all around the door including the cost all approved hardware accessories (SS handle door lock, SS hinges, handles, tower bolts, door closer etc.) with glass vision panel, etc., complete in all respect and direction by the Engineer.						
2.1	Supply & installation of GI 18 gauge door frames for installation of Door shutters with redoxide and oil paint finish, including all hardware	NOS	16			0
2.2	D-1 door with paint finish frame (size: 3'-0"x7'-0") Single shutter with SS Push/Pull Plate & SS bottom Plate bothside upto 8"	NOS	6			0
2.3	D-2 door with paint finish frame (size: 2'-6"x7'-0") Single shutter with SS Push/Pull Plate & SS bottom Plate bothside upto 8"	NOS	9			0
2.4	Supply & installation of MS DOOR 4' by 7' 18 gauge shutters with redoxide and oil paint finish, including all hardware approved by Engineer	NOS	2			0
2.5	D-3 door with painted frame (size: 5'-0"x7'-0") Double shutter with SS Push/Pull Plate & SS bottom Plate bothside upto 8" - Solid Door with polish finish	NOS	1			0

3	Aluminum Windows					
Supply & installation aluminum windows with approved shade and color with 8mm clear glass, extruded built up standard tubular sections 1.2mm Lucky brand fixing with fly proof shutter, incl. necessary filling up the gaps at junctions, i.e. at top/bottom and sides with required EPDM rubber/neoprene gasket, silicone etc. Complete with all respect. The cost shall include tinted/frosted paper pasted on all windows						
3.1	W-1 External Window (size 3'x 4'-0") - upto 2-6''' fixed and 2-6''' openable - 8mm tampered glass	NOS	6			0
3.2	W-2 Pharmacy Window (Size: 5'-0"x4'-0") with 10" sliding bottom and 3'-6" fixed top glass. - 8mm tempered glass with counter polished granite fixation (5'-0"x1.5')	NOS	1			0
4	Security Grill For Windows					
4.1	Providing and fixing in position MS security grill for window Using 12mm x12mm MS round/square bars 6"x6" c/c vertically and horizontally fixed as per the Architect design or Engineer's direction. The rate shall be include of red-oxide +2 coats of anti rust paint, welding, cutting, wastage, all fittings etc. Complete in all respect as per drawing and direction by the Engineer.	SFT	100			0
5	Tiles Work					
Providing and laying porcelain tiles for floor and ceramics tiles for toilets of (Master or equivalent brand) of approved color/pattern, floor tiles laying over 2.5" thick CC mortar and wall tiles fixing with mortar/cement bond including grouting, tile cutting wastage, all fixing arrangements etc., Complete in all respect and direction by the Engineer. Sampling will be required based on architect approval.						
5.1	Porcelain tiles of Floor for BHU Structuren ,Accommodation Structure and Security guard room floor (size: 2'-0" x 2'-0")	SFT	1768			0
5.2	Porcelain 4" high skirting with bond/mortar	RFT	450			0
5.3	Ceramic wall tiles (5' Height) (FOR Bath only)	SFT	627			0
5.4	Ceramic matt tiles for toilet floor	SFT	162			0
6	False Ceiling					
Providing and fixing 24"X24" Gypsum suspended false (black and white framing) ceiling of Elephant brand or equivalent consisting of GI frame (20mm width and 0.5mm thick pre coated), Including cutting, wastage, all hardware's, tools and fixing arrangements, ceiling height as per site requirement, etc., Complete in all respect and as directed by the Engineer.						
6.1	Gypsum board False ceiling with framing (24"x24") -9mm thick sheet	SFT	1768			0
7	Painting Works					
Providing & applying water based Matt Enamel / Emulsion Paint for internal surface and oil based paint with oil primer for steel elements, bulkheads, door frames etc. (Jotun/ICI/Berger) minimum three coats of approved shade over a coat of two primer on internal surface of buildings, Including preparing the smooth surface with filling of putty. Complete in all respect and direction by the Engineer. Sample colors for multicolor option will be approved by Architect.						
7.1	Internal Walls Paint - Matt Emulsion	SFT	5174			0
7.2	External - Texture Paint as per approval	SFT	2933			0
Total of Section-C						0
D	Misc. Works					
1	Plinth Protection					

Plinth protection all around building including the cost of excavation, filling, levelling, dressing and compaction surface providing and laying 6" thick stone soling, 4" thick 1:4:8 over soling and using masonry 8" thick with plaster finish, top surface finish with 4" thick PCC 1:2:4 concrete. Complete as per drawings, specifications and as per instruction of consultant & engineer. Complete with all respect as directed by Engineer.						
1.1	Plinth Protection Area	SFT	500			0
2	Ramp Construction					
Supply and construction of ramp on building main entrance and exit location including the cost of excavation, backfilling, 4" thick soling, 4" thick lean, 6" thick masonry and 1/2" thick plaster work, for ramp area using 4" thick soling and 4" PCC 1:2:4 and finish with Cemented Tile 1' x 1'. including all levelling and dressing, curing, compaction, cleaning, grouting etc., Complete in all respect and direction by the Engineer.						
2.1	Ramp Area (8-6" x 5'-0") with Tuff Tile (Design Pattern as per approval)	SFT	85			0
3	Construction of Entrance Staircase					
Providing, making/constructing staircase for entrance out side the building, steps making with 6" thick solid block masonry with plaster, including excavation, back filling, stone soling, lean concrete, 1:2:4 concrete with steel float finish, block masonry with plaster, fixing of marble on steps of main entrance, curing, finishing and racking out joint, hoisting etc., complete in all respects and as directed by the Engineer.						
3.1	Construction of steps for entrance Size: 4'-6" x 5'-0" with Tuff Tile (Design Pattern as per approval)	SFT	80			0
4	Stainless Steel Railing					
	Supply, providing and fixing 3'-0" high stainless steel railing (Grade 304) made of 2.5" dia hollow tubes with 1'-3" cantilever on both ends and 2.5" dia S.S Blusters for vertical support in each and its horizontal bracing, including base plates size 12" x 6" rectangle shape 6mm thick fix with 6" anchor bolts with chemical grout. Including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same necessary					
4.1	S.S railing for ramp	SFT	60			0
5	Metal Staircase for Roof Access					
Supply, fabrication and fixation of MS ladder in adequate slope with both side hand railing for 12' high with steel platform, ladder framing consist of U channel 8"x2.5"x3/16" and 2mm thick chequered plate for steps in L shape (step nos:18, step size: width-1'-3", lenght-3'-0") to be connected with platform structure, including side railing made with MS square pipes 40mmx40mmx2.5mm), base plate fix with rowel bolt, 1:2:4 concrete pad, applying 3 coats of anti rust paint with primer, termination of sharped edges, cutting, bending, wastage, welding, grinding, all necessary arrangements for						
5.1	Staircase 18'-0" x 3'-0" = 54 Sft.	JOB	1			0
6	Curtain Track with Cloth For Patients Bed					
Providing and fixing in position ceiling mounted aluminum curtain track with polyester blended cloth for different location/clinics, curtain rail made of aluminum alloy (60636-T6), aluminum rail consist of 20mmx25mmx1mm and fix with 10mm dia thread rod as roof suspenders. Including polyester blended cloth (color should be approved by the architect) these curtain should be made up with inherent, antibacterial, flame retardant, wrinkle free, shrink proof with anti odor and anti-fungal properties, wheel runner (runner made of Nylon or PVC), cloth stitching, all hardware's and arrangements for work, etc., Complete in all respect and direction by the Engineer. NOTE: Tracks are bendable to a radius of 200mm to 300mm at 90degree to cover the whole bed with 8'-0" height						
6.1	Aluminum track with polyester blended cloth	RFT	35			0

7	Overhead Water Tank Pad & Shade					
Supply and commissioning of Fiber Tank double ply 1500 liters horizontal cylindrical including all allied fittings with Thermal isolation formboard, Complete in all respect for operational. MASTER BRAND						
7.1	Fiber tank capacity 1500 liter	JOB	2			0
8	Signboards					
Supply and Installation fascia Signage as per design for ACM Sheet (alcob) Graphics,Plotter,cut corporate color 3M360 series vinyl to be posted on ACP sheet.Gradient part to be painted on CP8519 Aluminatation with over Aluminatation of CP8519.Inside structure to be red oxide and deco painted with rust prevention.support bar to be used on every 30 inches.pakistan cables to be used for electrical components, connection of board with facility is vendor responsibility 3D,Letters, body to be made of aluminium channel, letter body to be printed in white deco color.Front face of letters to be made of 3 to 4mm opal acrylic.Black cover to be made of 6 to 8 mm forex fixed on ACN surface with cut screw. LED lights ,Water proof samsung GOQ/ST2BV/RO3SABRY Korean module/ lama LED ROBE/ for Aluminatation with Five year warranty.The job will include Transporation ,Installation at Site.						
8.1	Size of 25 * 4	Job	1			0
9	Roller Blinds					
Supply and fixation of translucent fabric roller blinds in container windows with all accessories. Complete in all respect.						
9.1	Roller Blinds	SFT	120			0
10	Wooden Works					
Supply, fabrication, delivery, and installation of furniture works as per approved drawings and specifications, including all materials, hardware, accessories, fittings, finishing, labor, tools, transportation, and complete installation complete in all respect						
10.1	Furniture Installation work	sft	320			0
Total of Section-D						0
GRAND TOTAL (A+B+C+D)						0

TH NETWORK (CHD), KARACHI

Basic Health Unit (BHU) Tang Kacha

ANNEXURE A - BILL OF QUANTITY**Electrical Works**

				Material		Installation		Total Amount
S.No	Item Description	Quantity	Units	Rate	Total Amount	Rate	Total Amount	
A	General Wiring (PAK, POINEER, NEWAGE CABLES)							
1	Wiring with 2x2.5sqmm + 1x2.5sqmm 1-C PVC insulated cables in PVC pipe / duraduct above false ceiling to the proposed DB. Complete in all respect including connection: (Avg.Length 10 MTR.)							
a	Wiring from DB to first outlet for PC / General power	7	Nos		-		-	-
b	Wiring from one power outlet to other outlet (back to back count as one).	14	Nos		-		-	-
c	DB to Switch board	9	Nos		-		-	-
2	Wiring with 2x1.5sqmm + 1x1.5sqmm 1-C PVC insulated cables in Pvc pipe above false celing and below concealed. Complete in all respect including connection: (Avg.Length 10 MTR.)							
a	Switch to first light point	9	Nos		-		-	-
b	One light point to other light point	9	Nos		-		-	-
3	Circuit wiring of split type air conditioners with 3x2.5sqmm 1-C/Cu/PVC insulated cables in 25mm dia or bigger PVC conduit from proposed DB to outer unit split unit complete in all respects.	6	Nos		-		-	-
SUB TOTAL (A)					-		-	-
B	Lighting and other Fixtures							
	Supply and Installation, testing and connection of following lighting fixtures, complete in all respects, as per provided specifications and drawings. Samples of Light must be provided before installation.							
1	Insect Killer light (Large)	6	Nos		-		-	-
2	LED Down Light 17W (6000K) PHILIPS	60	Nos		-		-	-
3	Exhaust fan 8" Plastic Body Pak, Royal	5	Nos		-		-	-
4	Ceiling Fan 56" Pak, Royal - AC/DC	5	Nos		-		-	-

5	Ceiling Exuast Fan	1	Nos		-		-	-
6	Ceiling Fan 2'-x2' Pak, Royal	17	Nos		-		-	-
7	Wall Bracket Fan 18" Pak, Royal	2	Nos		-		-	-
8	Electric Gyeser 15 ltr (Nasgas)	4	Nos		-		-	-
9	Supply, installation of PVC Weather / Waterproof Solar Flood Light 120w on Roof With painted pole 6' high Complete in all respects.	10	Nos		-		-	
Sub-Total (B)					-		-	-
C	Wiring Accessories							
1	Supply, installation, connection & testing of following 10A, 220V switch/ fan plates including sheet steel powder coated back boxes, complete in all respects: CLIPSAL							
a	Two-gang	8	Nos		-		-	-
b	Three-gang	6	Nos		-		-	-
c	Four-gang	2	Nos		-		-	-
d	Six- gang	6	Nos		-		-	-
e	Fan dimmer with switch	5	Nos		-		-	-
2	Supply, installation, connection & testing of following accessories including sheet steel powder coated back boxes concealed , complete in all respects:							
a	13A Multi switch socket outlet Brand:Clipsal	30	Nos		-		-	-
b	Supply and installation of ON-OFF Switch 20Amp- 2Pole for AC's control. Brand: schneider	3	Nos		-		-	-
c	Supply and installation of DOL starter for 2HP Pump	1	Nos		-		-	-
Sub-Total (C)					-		-	-
D	Fire and Safety							
1	Supply & installation of Fire Extinguishers CO2 2 kg	4	Nos.		-		-	-
2	Supply & installation of Fire Extinguishers DCP 6 kg	3	Nos.		-		-	-
3	Supply & Installation of Fire Blanket 1.2 x 1.8 Meter	2	Nos		-		-	-

4	Supply & installation of Exit sign light	2	Nos.		-		-	-
Sub-Total (D)					-		-	-
E	Power Infrastructure							
1	Supply and Installation, testing and commissioning of the Distribution Board, as detailed in Single Line Diagram, complete in all respects: Shop Dwg Shall be							
a	DB- Lighting & Power with provision of genset and solar(MS Concealed Type with Hagers Breaker and change over) - Proper tagging of wires & Breakers	2	Job		-		-	-
Sub-Total (E)					-		-	-
Grand Total (A+B+C+D+E)								-

INDUS HOSPITAL & HEALTH NETWORK (CHD), KARACHI

Basic Health Unit (BHU) Tang Kacha

ANNEXURE A - BILL OF QUANTITY**SPLIT AC WORKS**

S.No	Item Description	Qty	Units	Material		Installation		Total Amount
				Rate	Total Amount	Rate	Total Amount	
A	Split Type Air Conditioners							
1	Supply & installation of Split AC's wall mount including outdoor condensing unit complete as per specifications and drawings. Make: Haier / Gree or approved similar. Making of holes with core cutter in CC walls, and similar civil works in contractors scope.							
a	Capacity 1TR (Tags: AC) Inverter (OFM)	6	Nos		-		-	-
SUB TOTAL (A)					-		-	-
B	Refrigerant and Condensate drain piping with insulation.							
1	Supply and Installation of Refrigerant copper piping soft type "L" (Muler Streamline USA) with Supply and installation of closed cell foam (Fire retardent) insulation for refrigerant and condensate drain piping. Complete in all respect. Thickness 1/2")							
a	Copper pipe dia 1/4" (No any joint in refrigerant piping & control wire of ACs (as per layout) will be allowed).	50	Rft		-		-	-
b	Copper pipe dia 1/2" (No any joint in refrigerant piping & control wire of ACs (as per layout) will be allowed).	50	Rft		-		-	-
2	Supply and Installation of UPVC Schedule-40 Condensate Drain Pipe (Dadex / Pak Arab) complete with all fittings and CLOSE CELL INSULATION Including clamps where required, as per drawings and specifications. Also make P / S Trape connection to the nearest possible drain point. (Thickness 1/2")							
a	Dia 1" inch (25mm)	50	Rft		-		-	-
b	Dia 3/4" inch (20mm)	50	Rft		-		-	-
SUB TOTAL (B)					-		-	-
C	Miscellaneous							
1	Supply and installation of durduct 80 x 80mm as per site requirement. Complete in all respect. (Adamjee)	30	Rft		-		-	-
2	Angle Iron Bracket with paint for fixation of outer units with rubber isolation pad, rawal bolt. Complete in all respect.	6	Set		-		-	-
SUB TOTAL (C)					-		-	-
Grand Total (A+B+C)								-

INDUS HOSPITAL & HEALTH NETWORK (CHD), KARACHI

Basic Health Unit (BHU) Tang Kacha

ANNEXURE A - BILL OF QUANTITY**PLUMBING WORKS**

S.No	Item Description	Qty	Units	Material		Installation		Total Amount
				Rate	Total Amount	Rate	Amount	
A	Water Supply Piping							
1	Supply and installation of PPR water supply piping complete with all fittings and pipe supports.							
a	Dia 3/4 inch (20mm)	180	Rft		-		-	-
b	Dia 1 inch (25mm)	160	Rft		-		-	-
c	Dia 1-1/2" inch (38mm)	150	Rft		-		-	-
SUB TOTAL (A)					-		-	-
B	Pump & Valves							
1	Supply and installation of PPR valves							
a	Dia 1" inch	4	Nos		-		-	-
b	Dia 3/4 inch	3	Nos		-		-	-
c	Dia 1-1/2" inch	6	Nos		-		-	-
d	Water Transfer Pump 2HP with allied fittings, complete in all respect.	1	Nos		-		-	-
SUB TOTAL (B)					-		-	-
C	Plumbing Fixtures & Fittings							
1	Supply and Installation of WC Western (porta) -Floor mounted - Flush Tank Operated (Master)	2	Nos		-		-	-
2	Supply and Installation of WC indian (porta) - Flush Tank Operated (Master)	3	Nos		-		-	-
3	Supply and installation of WC Muslim Shower (Master)	5	Nos		-		-	-
4	Supply and installation of wall mounted Wash Basin (Master)	5	Nos		-		-	-
5	Supply and installation of Single Lever Mixer for wash basin (Master)	5	Nos		-		-	-
6	Supply and installation of Tee Coack (Master) With Flexible lead	13	Nos		-		-	-

7	Supply and installation of Double Bib Coack (Master)	5	Nos		-		-	-
8	Supply and install bath shower set complete with shower head, mixer valve, hose, wall bracket, fittings, accessories, connections, testing, and commissioning, as approved by the Enginee	2	NOS		-		-	-
9	Supply and installation of Soap Dispenser Decorative Type ,Complete with all respect	5	Nos		-		-	-
10	Supply and installation of Tissue holder, Complete with all respect	5	Nos		-		-	-
11	Supply and installation of stainless steel (SS) sink complete with chrome-plated mixer tap, including all necessary fittings, accessories, connections to water supply and waste system, testing, and commissioning, as specified and approved by the Engineer	1	NOS		-		-	-
12	Supply and installation of Mirror and towel rail. Complete in all respect.	5	Nos		-		-	-
SUB TOTAL (C)					-		-	-
D	Drainage Arrangements							
1	Supply and installation of UPVC (Sch. 40) pipe for Soil, Waste and Vent piping including all fittings and accessories and Excavation and Repairing Works, Complete all in respect.							
a	Dia 3 inch (75mm)	120	Rft		-		-	-
b	Dia 4 inch (100mm)	200	Rft		-		-	-
2	Supply and installation of Flow Drain (FD) with Trap, including all civil works for installation inline with finished floor.							
a	Dia 4 inch (100mm)	5	Nos		-		-	-
3	Supply and installation of UPVC cowl for vent pipe of the following Dia including all accessories complete in all respects.							
a	Dia 3 inch (75mm)	5	Nos		-		-	-
SUB TOTAL (D)					-		-	-
Grand Total (A+B+C+D)								-

INDUS HOSPITAL & HEALTH NETWORK (CHD), KARACHI

Basic Health Unit (BHU) Tang Kacha

**ANNEXURE A - BILL OF QUANTITY****IT PASSIVE WORKS**

S.No	Item Description	Qty	Units	Material		Installation		Total Amount
				Rate	Total Amount	Rate	Total Amount	
A	Patch Panel							
1	Supply of fully loaded patch panel (24 ports) and installation, including punching of I/Os (Schneider / Clipsal).	1	Nos		-		-	-
B	Cable Laying							
1	Supply, installation & laying of cable Cat-6 UTP concealed in the wall with all allied materials . from the proposed Rack to outlets complete in all respect. (Approx. length 10 meters); including CCTV Points ; Brand: Schneider	20	Nos		-		-	-
C	Network Nodes							
1	Supply & installation of I/O face plate (Duplex) Schneider / Clipsal with MS powder coated back box complete in all respect.	4	Nos		-		-	-
2	Supply & installation of I/O face plate (Simplex) Schneider / Clipsal with MS powder coated back box complete in all respect.	8	Nos		-		-	-
D	PDU							
1	Supply & installation of 6 socket 3 pin flat PDU for rack. 13 Amps	1	Nos		-		-	-
E	Rack							
1	Supply & instal 18-U Rack for network switches wall mounted rack. (Brand: Toten)	1	Nos		-		-	-
F	Patch Cord							
1	Supply & installation of Cat-6 patch cords 1 meter. (3M/Schneider)	20	Nos		-		-	-
2	Supply & installation of Cat-6 patch cords 3 meter.(3M/Schneider)	5	Nos		-		-	-
	Cable Manager							

	Supply and installation of Cable Manager (3M/Clipsal)	1	Nos		-		-	-
G	CCTV							
1	Supply and installation of 4 Megapixel , Vari Focal Network Bullet camera, POE, Night vision, Wide angle, mounting bracket & accessories (Latest Model - Hikvision)	6	Nos		-		-	-
2	Supply and installation of NVR 16 Channel support with Raid 5 option (Latest Model - Hikvision)	1	Nos		-		-	-
3	Supply and Installation of Surveillance Hard Disk with Raid 5 (WD/Seagate) - 1 month backup	1	Nos		-		-	-
4	Supply of 42" LED Display 4K (IHHN Approved)	1	Nos	-	-		-	-
5	HDMI Cable 4K (15 Meter) - Branded	1	Nos		-		-	-
6	Supply and Installation of 24 ports POE switch (Dlink)	1	Nos		-		-	-
Total Cost for IT Passive Works								-

INDUS HOSPITAL & HEALTH NETWORK (CHD), KARACHI

Basic Health Unit (BHU) Tang Kacha

ANNEXURE A - BILL OF QUANTITY**EXTERNAL CIVIL WORKS**

EXTERNAL CIVIL WORKS									
Sr.#	DESCRIPTION OF ITEM	UNIT	QTY	Material		Labor		Total	
				RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)		
A	External Development Works								
1	Underground Water Tank								
	Construction of below structure including all excavation, soling,lean, RCC concrete for base, walls and roof as per proposed drawing with form works & pudlo plaster (1:4) internal complete, coving 6" x 6"to walls and floor + roof screeding 3" thick .Complete with tank openings and its MH cover heavy duty 2' x 2'.Complete with all respect as directed by Engineer. Note: steel will be fixed as per drawing .								
1.1	RCC Underground Water Tank size (10'x10'x 7.5')	Job	1		-		-	-	
2	Genset Foundation Pad & Fencing								
	Supply and Construction of Genset foundation for Hospital, outside of building, inside boundary wall at height 1'-10" from NGL, including excavation 1' deep for periphery, backfilling, 6" thick soling, 4" thick lean (1:4:8), 1'-0" thick RCC 1:2:4 for genset area, top finish with steel trowel, sides wall masonry 6" thick till FFL with plaster and paint finish including all compaction, curing, cleaning etc., complete with all respect as directed by Engineer. Note: 1/2" dia steel, 6" c/c both ways.								
2.1	Genset Foundation size (8'-0" x 6'-0") with fiber shade	SFT	48		-		-	-	
2.2	Diesal Tank Size (6'-0" x 5'-0") with Fiber shade	SFT	30		-		-	-	
2.3	MS Painted Fencing for Genset Diesel Tank Pad upto 8' high	SFT	288		-		-	-	
3	Septic Tank & Manholes Construction								
	Construction of septic tank (Size 10'-0" x 6'-0" x 8'-0") including excavation, solling, lean PCC, brick masonry, plaster with waterproofing, back fill, top RCC slab, manhole covers-03 (24"x24") complete in all respect, as per direction of site engineer. The contractor will submit shop drawing for approval prior to execution.								
3.1	Construction of septic tank Size 8'-0" x 6'-0" x 4'-0")	Job	1		-		-	-	
3.2	Construction of Manholes (Size 2'-0"x 2'-0" x 3'-0") with cover	Job	8		-		-	-	
3.3	Soakage Pit Dia 4' x 12 ft Depth	Job	1		-		-	-	
GRAND TOTAL					-		-	-	

INDUS HOSPITAL & HEALTH NETWORK (CHD), KARACHI

Basic Health Unit (BHU) Tang Kacha

ANNEXURE A - BILL OF QUANTITY**EXTERNAL MEP WORKS**

S.No	Item Description	Qty	Units	Material		Installation		Total Amount
				Rate	Total Amount	Rate	Total Amount	
A	Electrical Works							
1	Power Infrastructure							
a	10 Sqmm 4 Core/600V-1000V/Cu/PVC/PVC + ECC 4 Sqmm/600V-1000V/Cu/PVC S/C in 50 mm PVC pipe or bigger dia pipe as required. Complete in all respect MDB to SUM Pump DB. Note : Contractor must physically visit and take measurement before ordering of cable.	30	Mtr		-		-	-
2	Earthing System							
a	Supply installation connecting testing and commissioning of protective earthing system depth approx. 50 Feet (10 Feet CU Rod and 40 Feet Bare copper cable in Bore) for DB including bore, Copper Rod 1 inch dia 10 feet long with 10 sqmm x 02 bare copper wire and ECP 10 X 80 X 300 MM with water addition point. Complete with all respect. Earth resistance test shall be made by contractor on the earthing system.	1	Job		-		-	-
	Supply and connecting CU / PVC Y/G S/C cable 10 mm X 02 DB approx.	30	Mtr		-		-	-
Sub-Total					-		-	-

3	Generator System							
1	Installation of 15 KVA 3 Phase DG Set, Complete in all respect Including shifting on Foundation pad and grouting as required.	1	Job		-		-	-
2	Installation of 1000 Liters diesel tank horizontal cylindrical with all fittings and level gauge , MS leg 4 feet height, Paint with primer Complete in all respect. Vendor must be submitted shop drawing before the execution. Fuel to be filled in Genset with gravity	1	Job		-		-	-
3	Supply and commissioning of MS piping with paint from Diesel tank to Genset with all desired fittings, Complete in all respect. Vendor must be submitted shop drawing before the execution.	30	RFT		-		-	-
Sub-Total					-		-	-
B	Plumbing Works							
	Water Supply from Existing Water tank							
2	Supply & installation of PPR pipe for water supply including excavatoin fittings & accessories with repairing works, complete in all respect.							
	Dia 2" (50mm)	600	RFT.		-		-	-
	Pump 2 HP	1	Nos		-		-	-
		SUB TOTAL			-		-	-
GRAND TOTAL					-		-	-