

Bacha Khan Medical Complex/Medical Teaching Institution Gajju Khan Swabi. (Establishment/Construction of IT Data Centre on 2nd floor of the existing Surgical ward building).

Issued to: _____

Date: _____



Bidding Documents for

Establishment/Construction of IT Data Centre on the existing Surgical Ward building in MTI-BKMC/GKMC,Swabi

Instructions To Bidders:

Scope of Bid: Hospital Director BKMC/GKMC MTI Swabi Invites sealed bid from eligible firms registered with Pakistan Engineering Council in relevant categories & having updated registration certificate issued by PEC for the work "Establishment/Construction of IT Data Centre on the 2nd floor of existing Surgical ward building in MTI-BKMC/GKMC,Swabi" as mentioned in Bill of quantities attached.

Method of Selection: Single stage two envelopes procedure as per KPPRA.

Eligible Bidders: This invitation for bid is open for all bidders meeting following requirements

- Duly Licensed by Pakistan Engineering Council in relevant category & having codes, CE-10.
- Registered with Federal Board of revenue & having valid NTN No.
- Registered with KPRA.

One Bid per Bidder: Each bidder shall submit only one bid either by himself or through joint venture with other firm. The contractor's quoted rate must be printed/typed on the company's letter head and hand writing quoted rate is not acceptable and will be considered the bid as rejected.

Cost of Bid: The bidder shall bear all cost associated with preparation & submission of bid & employer will not be responsible for any cost.

Site Visit: The bidders are advised to visit the site & examine the site of work & its surroundings & obtain all necessary information required for preparation of bid.

Clarification of Bidding Documents: Any perspective bidders who required clarification of bidding documents may notify the employer in writing on the address as mentioned in bidding documents at least 5 days prior to last date of submission of bid. The employer will respond all clarifications in writing received within due time.



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Amendments in Bidding Documents At any time prior to the deadline of submission of bid the employer may for any reason whether at his own initiative or in response in clarification requested by perspective bidder modify the bidding documents by issuing an addendum. Any addendum thus issued will be considered as part of bidding documents.

Taxes & Duties: All government taxes i.e. income tax, stamp duty & professional tax or any other government tax will be charged as per rules.

Validity of Bid: The bid shall be valid for 90 days.

Employer authority to accept or Reject all bids:The competent authority has the right to reject all bids under Rule 47 of KPPRA procurement rules 2014 after assigning valid reasons.

Preparation of Bid:

Language of Bid: The bid & all associated documents with it will be prepared in English.

Currency of Bid: The unit rates & prices shall be quoted by the bidders in Pakistani Rupees. Payment to successful bidder may be made in Pakistani rupees irrespective of variation in its exchange rate with international currency.

Bid Security:

All the bidders must submit with their financial bids, bid security/CDR as per KPPRA notification No S.R.O (14) Vol: 1-24/2021-22 dated 10-05-2022. Otherwise the bid shall be considered as non-responsive. An affidavit is mandatory in technical bid that bid security is placed in financial bid.

The award will be based on above/below basis on engineer estimate.

Technical Bid: The technical bid will be comprises of the following documents

- 1) Form of Bid signed & stamped by the bidder.
- 2) Signed copy of bidding documents.
- 3) Registration certificate of the Firm with PEC in relevant category.
- 4) Registration certificate from KPRA.
- 5) Registration certificate with FBR/NTN No.
- 6) List of completed Projects of similar nature with work orders & completion certificates.
- 7) List of ongoing projects of similar nature with work orders.
- 8) Audit Reports of firm issued by chartered accountant for last three years audit reports must be attested.
- 9) Bank statement with annual turnover.

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- 10) List of Technical team with detail CVs & PEC certificates signed by authorized representative.
- 11) List of equipments signed by authorized representative.
- 12) Proposed Construction Schedule signed by authorized representative of the firm.
- 13) Affidavit on stamp paper duly attested by notary public that the firm or any of its owners has never been black listed.
- 14) Affidavit on stamp paper duly attested by notary public that bid security/ CDR is attached with financial bid.
- 15) Affidavit on stamp paper duly attested by notary public that the firm will execute all the works as per specifications & instructions of Engineer Incharge.
- 16) Copy of CNIC of the owner/authorized representative.
- 17) Contact details of the firm i.e. Mobile & telephone, email & mailing address.

Financial Bid: The financial Bid will be comprises of the following documents:

- 1) Engineer Estimate for the work duly signed by authorized representative of the firm with his quoted rate i.e. above/below on engineer estimate.
- 2) Bid security/CDR in the name of Hospital Director BKMC/GKMC MTI Swabi.

Sealing & Marking of Bid: Technical & financial bids shall be sealed in separate envelopes & shall be marked as "Technical Bid" & "Financial bid" Name of the firm shall be clearly marked on both envelopes & addressed to Hospital Director MTI GKMC/BKMC Swabi. Both envelopes shall be sealed in one outer envelope & the name of firm shall be clearly marked on it as well. If the name of firm was found missing on envelopes the bid will be considered as non-responsive & will be returned unopened.

Dead Line for Submission of Bid: The bids must be received by the employer not later than date & time as specified in the advertisement/ bidding documents through registered mail/courier/from the office of the Manager M&E MTI GKMC/BKMC Swabi.

Late Bids: Any bid received by the employer after the deadline for submission of bids will be returned unopened to such bidder.

Modification Substitution & Withdrawal of Bids: Any bidder can modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or withdraw notices received by employer prior to the deadline of submission of bid.

Opening of Bids: The employer will open the bid in the presence of bidders on the date & time as specified in the advertisement/ bidding documents.

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Technical Qualification Criteria


Mandatory Requirements:

- 1) Registration with Pakistan Engineering Council in relevant category & codes. The registration must be renewed for the current year.
- 2) Registration with FBR & valid NTN No.
- 3) Registration with KPRA.
- 4) Proposed Construction Schedule signed by authorized representative of the firm in accordance with time of completion.
- 5) Affidavit on stamp paper duly attested by notary public that the firm has never been black listed.
- 6) Affidavit on stamp paper duly attested by notary public that the firm will execute the works as per specifications mentioned in bidding documents & as per instructions of engineer in charge.

Detailed Evaluation: The applicants meeting the above mentioned mandatory requirements will be selected for detailed evaluation. The bidders who failed to comply with mandatory requirements will be rejected. Detailed evaluation shall be carried out on the basis of criteria for different categories & minimum passing marks prescribed hereunder:

Sr.No	Category	Marks	Marks Obtained
1.	Experience Record	30	
2.	Personnel Capabilities	20	
3.	Equipment Capabilities	20	
4.	Financial Soundness	30	
Total:		100	

Experience: (Total Marks =30 i.e. 15 for Completed projects & 15 for Ongoing Projects)

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1) For Completed Projects: (Table 1)

Sr. No.	Description	Max marks	Marks Allocation
a)	Experience as prime constructor in execution of similar projects. Similarity based on physical size And other Characteristics.	15	<ul style="list-style-type: none"> • 7.5 Marks will be awarded for each completed building Project in the last 5 years having cost more than 40 Million up to maximum 2 projects. • 5 marks will be awarded for each completed building Project in the last 5 years having cost more than 30 Million up to maximum 2 Projects.
Total Marks Allocated			

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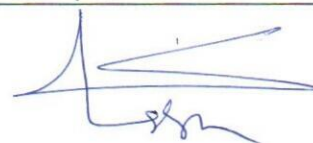
2) For Ongoing Projects: (Table 2)

Sr. No.	Description		Marks Allocation
1	Experience as prime constructor in execution of similar projects. Similarity based on physical size and other Characteristics	15	<ul style="list-style-type: none"> • 7.5 Marks will be awarded for each Ongoing building Project having cost more than 40 Million up to maximum 2 projects • 5 marks will be awarded for each ongoing building Project having cost more than 20 Million up to maximum 2 Projects.
Total Marks Allocated			

Personnel Capabilities: (Max 20 marks)

S No	Description	Marks assigned
1	BSC Civil Engineer registered with PEC & having more than 3 years experience	5marks will be assigned for each engineer up to maximum 15 marks.
2	BSc Civil Engineer registered with PEC & having experience more than 2 years	3 marks will be assigned for each engineer up to maximum 6 marks
3	BSc Electrical Engineer registered with PEC & having experience more than 2 years.	3 marks will be assigned for each engineer up to maximum 6 marks.
4	B Tech Electrical/Civil Engineers having experience more than 2 years	2 Marks will be assigned for each B Tech Engineer up to maximum 4 marks

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5	DAE Civil/Electrical having experience more than 2 years.	1 Mark will be assigned for each DAE Engineer up to maximum 2 Marks.
	Maximum Marks	20

Note: Verification of registration of engineers with relevant firm will be confirmed from Pakistan Engineering Council website.

Financial Capabilities: (Total 30 marks, 15 Marks for Average annual turn Over & 15 Marks for Liquid Assets)

i) **Average Annual Turn Over:** (15 marks)

S No	Annual Turn Over	Assigned marks
1	Less than 2 Million	0 Marks
2	3 Million to 5 Million	11 Marks
3	More than 6 Million	15 Marks

ii) **Liquid Assets**(15 marks)

S No	Liquid Assets	Assigned marks
1	Less than 2 Million	0 Marks
2	3 Million to 5 Million	11 Marks
3	More than 5 Million	15 Marks

Note: Annual turnover & liquid assets will be taken from latest bank statement & financial audit reports for the last 3 years. All audit reports must be attested & bank statement shall be verified from relevant bank.

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Equipments Capabilities:(20 Marks)

Sr. No.	Description	Minimum no of Equipment Required	Maximum Marks
1	Concrete Site mixers	1	4
2	Generator Set (Min. 2kva)	1	2
3	Vibrator	2	4
4	Form Work (Sq. ft)	1000	4
5	Scaffolding Pipe (Rft)	400	2
6	Dumper	1	4
	Total Marks		20

Financial Evaluation

All the bidders who secured at least 60 % marks in technical evaluation shall be considered technically qualified & then the financial soundness marks will be awarded. The lowest financial bid will be selected for award of contract.

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Form of Bid (To be Filled & signed by Bidders)

To
The Hospital Director
BKMC/GKMC MTI Swabi

Subject: Form of Bid for Establishemnt/Construction of IT Data Centre on the existing Surgical ward building in MTI-BKMC/GKMC,Swabi.

Dear Sir,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Specifications, Drawings, BOQ, the site for the execution of above named works and Addenda Nos. _____ for the execution of the above-named Works, we, the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the Conditions of Contract. Specifications, Drawings, Bill of Quantities and Addenda.
2. We understand that all the Appendices attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of Rupees 2% of the Engineer's Estimate. drawn in your favor or made payable to you and valid for a period upto 30th July 2023 beginning from the date Bids are opened.
4. We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in special stipulations.
5. We agree to abide by this Bid for the period upto 30th July 2023 from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this _____ day of _____ 20_____

Signature: _____

in the capacity of _____ duly authorized to sign Bids for and on behalf of

(Name of Bidder in Block Capitals) with Seal

Address: _____



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Terms & Conditions

- The work should be completed within the time to be mentioned in the work order however the bidders has to submit a proposed construction schedule with the bids for the said work.
- If the work is not completed within the period mentioned in the work order, Liquidated damages will be charged @ 0.05% per day of the remaining work value.
- Defects Liability period will be 180 days for the work.
- The bidder must be registered with Income Tax, reflected as Active Tax Payer on the list of FBR.
- No advance payment will be permissible.
- The bidder shall provide an undertaking that the bidder has not been declared black listed by any Government / Semi-Government institutions.
- The payment will be made as IPCs for the work done to be measured from site jointly by the contractor's Engineer and BKMC/GKMCs Engineer.
- Retention money at the rate 10% will be deducted from each IPC which will be released as 5% on the completion/handing over of the work and the remaining 5% on the successful completion of the defects liability period.
- Quantity May increase or Decrease as per the requirement of the site.

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General Specifications

1.1 Quality/ Quantity of Materials

BKMC/GKMC MTI Engineer shall check the quality of all materials delivered to site. Any materials which do not meet the minimum standards shall be rejected. Such materials shall be removed from site and replaced at the Contractors expense with materials of the required quality. The approved quantities of material mobilized to site are the core responsibility of contractor.

1.2 Quality of Workmanship

Contractor is responsible to mobilize the skilled and unskilled persons according to work need. BKMC/GKMC MTI Engineer will reject any works which have not been executed to the required standard. The Contractor shall redo any rejected works at his own expense and with no time delays to the overall scheme.

1.3 Layout

Contractor will carry out the layout with the help of BKMC/GKMC MTI Engineers for excavations and set the required bench marks as directed by the BKMC/GKMC MTI engineer. Before starting the excavations, it should be checked and got approval by the BKMC/GKMC MTI engineer.

1.4 Preparatory works for main works.

No extra payment will be made for works which are not specifically mentioned in the bill of quantities but are generally required. Such works will be carried out the contractor's expense. Such works include, but are not limited to, Layout, formwork, curing, testing, fittings and joints for pipes, clamping of pipes to walls, excavation for PVC pipes, embedment of G.I pipes in walls etc.

1.6 Unless otherwise specifically mentioned in the, BOQ or these specifications, all international codes like ACI, ASTM will govern the minimum standards required for the workmanship, materials, testing etc.

2 Buildings, Structures and materials

2.1 Excavations

Excavations shall be clean and free of water. All excavations shall be inspected by BKMC/GKMC MTI Engineer before work proceeds. (If the excavation needed).

Excavations are dangerous and liable to collapse, particularly in wet weather or waterlogged ground. The Contractor shall take all necessary precautions to ensure that all excavations are properly protected to prevent accidental or un authorized entry. The Contractor shall be responsible for safety, mention standards and be liable for any accidents which may occur.



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2.2 Sand

Sand shall be clean and free from contaminants such as oil, silt, soil, wood, metal or vegetable matter.

Coarse sand, fine sand used according to their respective places such like concrete, plaster etc or as per the approval of engineer. Sand used for plaster and concrete work should be approved from BKMC/GKMC MTI Engineer

2.3 Aggregate

Aggregate used for concrete shall be angular crushed rocks, and able to create bonding. It shall be clean and free from contaminants such as oil, silt, clay, wood, metal or vegetable matter. Smooth, soft and silky aggregates will not be allowed for use.

Aggregates used for concrete work should be approved by the engineer.

2.4 Cement

Ordinary Portland cement shall be used and delivered in sealed bags to the site. It shall be kept clean and dry until usage.

The cement should be fresh and satisfy all the engineering requirements as specified in International codes of practices.

2.5 Water

Water used for mixing concrete, mortar, plaster and other construction materials shall be portable, clean and free from organic materials.

2.6 Concrete Mixes

Concrete shall be mixed in the following proportions by volume: All the RCC mixes will be of 3000 psi cylindrical strength at 28 days.

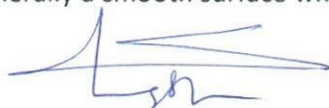
Class A Concrete: 1 : 1 1/2 : 3 cement : sand : aggregate

Class B Concrete: 1 : 2 : 4 cement : sand : aggregate

Class C Concrete: 1 : 4 : 8 cement : sand : aggregate

The water cement ratio shall be by weight. Too much water improves the workability but reduces the strength creates segregation of concrete. Concrete which has too much water added shall be rejected. The slump in freshly made concrete should be 3" – 4" according to the standard slump test on 12" high concrete samples.

Concrete should have generally a smooth surface when formwork is removed.



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The 7 days compressive strength of 1:1 1/2:3 concrete (6" dia and 12" high cylinders) shall not be less than 2000 pounds per square inch (psi) and the 28 days strength should not be less than 3000 psi.

If desired, the engineer can ask for the cylinder tests of concrete. The cost of such tests should be borne by the contractor.

2.7 Mixing Concrete

Concrete mixed on site shall be mixed on a clean dry platform of level boards. Concrete shall not be mixed on the bare ground. Mixing by hand shall be carried out in the following way:

First the cement and sand shall be thoroughly mixed. Second, this mixture shall be thoroughly mixed with the aggregate which has been slightly wetted. When the mixture is completely mixed and uniform in color, the correct quantity of water shall be added, and the concrete thoroughly mixed.

Hand mixing will only be allowed if engineer on site is satisfied with the quality of workmanship and 10% extra cement will be added, otherwise the concrete will be required to be machine mixed.

Concrete for roof will be mixed only by the machine and hand-mixing will not be allowed.

2.8 Placing Concrete

Once mixed, concrete shall be used immediately. Any concrete which had been allowed to achieve its initial set shall not be placed. Concrete should be compacted by the use of vibrator or steel rods as directed by the engineer

Concrete should not be thrown from height. The steel pan should be lowered and the concrete dropped from it for its placement when done manually.

Arrangements should be made at the contractor's expense to protect the freshly poured concrete from rain for 24 hours. Any concrete damaged by rain will be rejected and the contractor will have to do the concreting again at his own cost. No extra time will be given for redoing the job.

2.9 Formwork

Formwork shall be adequately braced and have a capacity to support the wet concrete after its placed. The faces of the formwork shall be smooth and clean. Mobil oil may be used to prevent the concrete adhering to the formwork.

Steel formwork should be used for the concrete placement. Wooden forms will be allowed only the engineer if smooth surfaces for concrete are ensured by the contractor.

All form work and shuttering shall be approved by the Engineer before binding and placing the reinforcement.



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2.10 Reinforcement

Steel reinforcement shall be the correct diameter as shown on the drawings or as directed by the engineer. The bars shall be clean and free from rust. They shall be securely fixed by binding wire at every joint before placing the concrete. The minimum cover to reinforcement shall be $\frac{3}{4}$ inch. Clear covers will be specified by the engineer if not explicitly mentioned in the drawings.

The steel used for reinforcement should be of good quality and should not break when bend at 180 degrees. Engineer can ask for the standard tests of steel if unsatisfied with the quality of the steel.

Weight, dia, yield strength, tensile strength and bend tests must be carried out by the contractor and will bear the lab cost.

2.11 Curing Concrete

Sufficient water is required for concrete curing. Poorly cured concrete will shrink or crack, and not achieve its full strength. The contractor shall ensure that all concrete is properly cured.

The concrete shall be kept continuously wet by the application of water for a minimum period of fourteen days after the concrete has been placed. Cotton mats, carpets or sand blankets, may be used as a curing medium to retain the moisture.

Roof concrete should be cured by water ponding on its surface.

2.12 Concreting in Cold/ Hot Weather

The contractor is responsible to take necessary action according to weather condition or as per the approval of engineer.

2.13 Concrete Finishing

Concrete shall be finished to a smooth uniform surface and finished using a metal or wooden float.

2.14 Mortar

Mortar for brick work and floors shall be mixed in the proportion 1 cement: 4 sand by volume. Sufficient water shall be added to achieve the desired workability.

The surfaces of the bricks shall be wetted before placing. Mortar shall be placed on all horizontal and vertical faces between the Bricks, with no gaps.

2.15 Plaster

Mortar for plastering of internal walls and external rendering shall be mixed in the proportion 1 cement : 4 sand by volume. Sufficient water shall be added to achieve the desired workability.

Cement water slurry should be thoroughly applied on the wetted walls before applying the mortar.

Handwritten signature and date. The signature is written in blue ink and appears to be 'L. S. N.'. To the right of the signature, the date '18/31' is written in blue ink and circled.

Wire mesh must be fixed at all brick and concrete joints in order to avoid cracks in plaster.

The walls shall be thoroughly (as required) wetted before applying the plaster. The plaster shall be ½ inch to ¾" inch thick, and shall have a uniform flat finish. At corners and between walls and ceilings, the finish shall be clean and precise in a straight line.

Plastered surfaces should be cured for at least 7 days.

2.16 Brickwork and Brick walls

Before the construction of walls the contractor should get approval of the BKMC/GKMC-MTI Engineer.

Walls shall be straight, perpendicular and dimensionally correct, constructed as shown on the drawings. The faces of walls shall be regular with no irregular bricks.

The thickness of mortar used for brickwork should be about ½ inches.

Bricks shall be of uniform size, shape, color and free from chips, cracks, nodules of lime and such defects which render it unfit for the building works. The size of bricks used should be 9" * 4 ½" * 3".

Bricks should be kept immersed in water for 24 hours before using or as directed by the engineer. Dry bricks or half wet bricks will not be allowed in brickwork.

The minimum compressive strength of bricks should be 1500 psi.

The water absorption by bricks should be 15% to 20% by weight when kept immersed in water for 24 hours.

Bricks should produce a clear ringing sound when stuck together.

Bricks should not under-burnt or over-burnt. Engineer will reject the bricks if unsatisfied with their quality. Engineer can also ask for the compressive, water absorption or other tests to make sure that the bricks satisfy the minimum quality requirements.

Brickwork should be cured for at least 7 days after its construction or as directed by the engineer.

The compressive strength, absorption, size check tests must be carried out by the contractor and will bear the cost of lab.

2.17 Paint Work

Distemping should be applied on smooth surface for which sand paper should be used for this purpose. Enamel and weather shield should be used as specified in BoQ specification in their respective places.

A handwritten signature in blue ink, appearing to be 'Lsh'.A handwritten date '16/31' circled in blue ink.

2.18 False Ceiling

Foil packed tiles , Laminated with Aluminium foil of thickness 9mm to 15 mm complete hanging and aluminium fittings arrangements.

2.18 Doors/ Ventilator

Door, windows and Ventilator are used of approved materials as specified in BOQ. Any material or equipments used for the fixing of doors and ventilators will be the responsibility of contractor with no extra cost.

3 Water Systems

3.1 PPR Pipe

Pipe shall be of required diameter and quality and brand as specified in the bill of quantities.

3.2 Pipe Connections

Connections shall be cleanly welded/ Jointed and tested for leaks. Untidy or leaking joints shall be re-made to the approval of the Engineer.

All connections to pumps, valves and other fittings shall be threaded or flanged to enable removal.

3.3 Pipe Laying and Bedding

All pipe work shall be laid in a trench with a minimum depth of 1 foot or as per the approval of engineer. All pipes shall be tested for leaks before backfilling the trench.

3.4 Pipe Fittings

Pipe fittings shall be complete in all respect i.e. jointing, socket, tee, valves etc with solution, threading etc

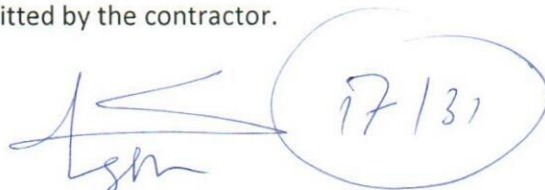
3.5 Pipe Bends

Pipes shall not be bent. The correct fittings shall be used such as bends, elbows and Tees. Any bent pipe shall be removed and replaced with the appropriate fittings.

3.6 Pipe Protection

All steel pipes and connections shall be protected from rusting.

Note: All the sanitary wares i.e wash basin,WCs(Indian and English),bib cocks ,Wash basin mixer,soap dish etc will be finalized and approved by the hospital plumbing team from the samples of quality brands submitted by the contractor.

A handwritten signature, possibly 'Lsh', is written in blue ink. To its right, the date '17/31' is written inside a hand-drawn blue circle.

3.7 Screed/Tiles

The screed shall be cast in a smooth and levelled way, so tiles can be laid without disturbance. Between the screed and the wall the contractor shall place a ¼" foam board or card board, ending 1/8" above the screed. The screed shall be cast before the plaster works. The joint between the tiles shall be 1/8". Butt joints are not acceptable. The tiles shall be grouted with the required colour grout, the edge between wall and tiles shall be kept free of grout. All corner joints shall be filled with elastomeric sealant. Joints between the floor tiles and the skirting tiles shall be sealed with an elastomeric sealant, matching the colour of the tiles and the grout. Glossy finished tiles are strictly forbidden at floor, matt tiles must be used in floor.

4.1 Light fixtures

Lights shall be mounted to or concealed to the ceiling with own supplied fixtures or the set fixtures. If the contractor supplies the screws and dowels, this material shall meet the light fixture producers' expectations. The luminosity shall meet the description in the electrical drawings.

4.2 Fans

Contractor shall mount the fans to the ceiling with all necessary materials or ceiling fans to be fixed in false ceiling.

4.3 Switches/Socket

Switches and sockets shall be concealed manner. The switches shall be installed 41" above finished floor and 6" offset the door. Sockets shall be installed 12" above finished floor and 6" offset the door. Sockets shall be from a quality that keeps the plug in place firmly.

4.4 Earthing

The electrical installation shall be protected by earthing. The contractor can use earthing rods or use ring earthing in the foundation.

Note: All electrical accessories i.e Circuit breakers, DBs, lights, fans, switches, cables, ACs etc. will be approved by the hospital technical team. The contractor will submit samples of quality brands.

All the dismantling or removal of plaster or tiles etc must be in a controlled way and the waste materials need to be disposed off on the same day in order to avoid dumping on site.

For light weight sandwich panel roof, all the pipes must be of the size and gauge as specified in drawing, must be applied with primer and enamel paint. All the welding must be firm free of carbon.

Sandwich panel must be of required thickness and gauge of (GI) factory painted. Sandwich panels must be free of scratches. Drain all-around of the roof must be provided and down water pipes for proper drain out of the rain water.

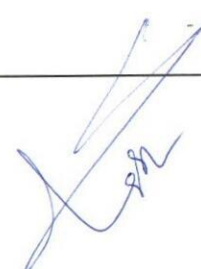
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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS
VERTICAL EXTENSION ON THE SECOND FLOOR OF NEWLY CONSTRUCTED
BUILDING WARD "C" MTI SWABI**

S.No.	DESCRIPTION	SCHEDULE ITEMS AMOUNT(Rs)	NON SCHEDULE ITEMS AMOUNT(Rs)	TOTAL AMOUNT(Rs)
1	CIVIL WORKS	3593252	85204	3678456
2	INTERNAL ELETRIFICATION WORKS	1063980		1063980
3	INTERNAL PLUMBING WORKS	405781		405781
4	PRE-FAB ROOF SHED		467775	467775
	TOTAL AMOUNT	5,063,013	552,979	5,615,992.04
Engineer,s Estimate				
Contractor,s Quoted Rate				

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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS
VERTICAL EXTENSION ON THE SECOND FLOOR OF NEWLY CONSTRUCTED
BUILDING WARD "C" MTI SWABI**

S NO	Description	Unit	Ref no#	Rate (Rs)	Qty	Amount (Rs)
1	Dismantling brick work in lime or cement mortar	M3	04-13.	1494.87	7.96	11,903.18
2	Dismantling : Plain Cement Concrete 1:2:4	M3	04-19-c	3869.08	1.23	4,765.01
3	RCC in Roof Slab,Beam Column and other structural members insitu or precast type A (1:1.5:3)	M3	06-07-a-02	16727.10	24.63	411,952.37
4	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade 60)	Tonne	06-08-b	303740.41	2.842	863,143.15
5	Erection and removal of steel Form work for RCC or Plain Concrete horizontal	m ²	06-47-a	854.37	109.20	93,297.84
6	Erection and removal of steel Form work for RCC or Plain concrete vertical	m ²	06-47-b	893.59	81.55	72,874.09
7	Pacca brick work in 2nd floor in Cement, sand mortar 1:4	M3	07-06-b	15305.01	47.49	726,828.73
8	Masonry using Facing/Machine/Special bricks in cement sand mortar 1:4 upto 10 ft. height Add extra on Item 07-38 for every 10 ft additional height or part thereof	M3	07-36-c	15219.61	5.71	86,855.32
9	Cement Plaster 1:5, from 20 to 30' height 3/4" thick	m ²	11-11-c	531.24	130.18	69,158.96
10	Supply and Fixing aluminium door/window, Sliding Window Premium model (2.00	m ²	12-65-a-06	12054.52	14.13	170,286.90
11	Supply and Fixing MS Sheet 16 guage(10"x2" feet) box type chowkats including fixing in position with all charges	m	12-70-a	1290.40	20.12	25,957.45

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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS
VERTICAL EXTENSION ON THE SECOND FLOOR OF NEWLY CONSTRUCTED
BUILDING WARD "C" MTI SWABI**

S NO	Description	Unit	Ref no#	Rate (Rs)	Qty	Amount (Rs)
12	Providing and Fixing marble strip 1.5 inch wide 3/8 inch thick for dividing the floor into panels	m	10-47-c	100.75	6.10	614.14
13	1.375" thick mosaic flooring, including rubbing and polishing complete : Using grey cement	m ²	10-21-a	2214.38	6.97	15,434.80
14	Preparing surface and painting with emulsion paint : First coat	m ²	13-22-a	148.96	130.18	19,392.21
15	Preparing surface and painting with emulsion paint : 2nd & each subsequent coat.	m ²	13-22-b	93.73	130.18	12,202.15
16	Supply and Fixing aluminium door/window. Other items : Fly screen shutter for Premium model	m ²	12-64-d-05	6459.24	9.67	62,431.32
17	French polishing complete: On new work	m ²	13-05-a	980.88	13.66	13,400.50
18	Cement pointing struck joints, on walls, upto 20' height : Ratio 1:3	m ²	11-18-b	419.14	124.88	52,343.81
19	Providing and Fixing of Bath Room Tiles 12"x18" of approved quality	m ²	10-55-J	2264.82	15.80	35,782.47
20	4 SWG aluminium kick plate 4" high, on bottom rail of flush doors of commercial p	m	12-58.	355.91	7.315	2,603.43
21	Applying 2mm wall putty (Berger, ICI or approved equalent).	m ²	11-20-b	72.24	130.18	9,404.49
22	Providing and fixing First class deodar wood projected beading upto one sq.inch.(6.5sq.cm.) wide in section, designed, fixed around the panels of doors, windows of any description	m ²	12-73-a	236.8	19.40	4,594.54
23	Providing and Fixing of glazed tiles skirting etc complete imported approved quality (20"x20")	m ²	10-43.	2261.10	46.47	105,069.70
24	Rubbing and polishing old grit/mosaic floor, including repairing voids, uneven surface complete	m ²	27-64.	273.43	81.78	22,362.30

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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS
VERTICAL EXTENSION ON THE SECOND FLOOR OF NEWLY CONSTRUCTED
BUILDING WARD "C" MTI SWABI**

S NO	Description	Unit	Ref no#	Rate (Rs)	Qty	Amount (Rs)
25	Providing and fixing of Duca engineered door 2" thick made of partal soft wood, MDF and solid mohagany wood including chowkat, architrave, all required fittings i.e. hinges, handles, locks bolts and including mohagany polish complete in all respects.	m ²	12-16.	20504.85	14.85	304,428.42
26	Providing and Fixing of 4 Way Structural Glazing in Aluminum Section of Thickness 2mm, Brackets, Anchor Bolts, Hardware, Silicon, Gasket. 6mm Clear Low E Glass Tempered + 12mm Air Gap + 5mm Clear Glass Tempered. As per U-Value: 1.8 SC: 0.62 LT: 65%	m ²	12-53-a	13204.02	3.35	44,177.02
27	Fire Hose cabinet with 30 meter Hose Reel and Nozzle Complete with accessories	Each	12-146	61123.50	1.00	61,123.50
28	Single layer of tiles 12"x6"x2" laid over 4" earth and 1" mud plaster on top of RC roof slab	m ²	09-06.	1624.09	114.50	185,955.29
29	Supply and Fixing accoustic mineral fibre tile ceiling fixed with aluminium tee hung by GI wire fixed in roof	m ²	12-47'	2565.49	40.89	104,908.51

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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS
VERTICAL EXTENSION ON THE SECOND FLOOR OF NEWLY CONSTRUCTED
BUILDING WARD "C" MTI SWABI**

S NO	Description	Unit	Ref no#	Rate (Rs)	Qty	Amount (Rs)
TOTAL SHEDULE ITEM						3,593,251.60
NON- SHEDULE ITEMS						
1	Providing & fixing of roller blind in window	m ²	NSI	3335.60	4.46	14,880.00
2	Supply & Fixing of MS box pipe door consist of 1.5"X1.5" Frame and 1"X1" internal pipes 18 SWG complete with paint etc.	m ²	NSI	5333.19	7.43	39,652.00
3	Sinages:: Imported Painted Sheet Background holding the whole structure. Imported Double Adhesive for Joiner Aluminum Alloy Sliding Structure S-12 Hollow section with 20 Micron Anodizing Aluminum Alloy Sliding Modules with 20 Micron Anodizing Module I-25, I-50, I-74, I-100 Sliding Strips for modules as per required size (Changeable System). High Quality Digital Printing with Scratch Resistant Lamination & UV Protection High resolution UV LED 3D HQ Printing ABS End Caps will be hospital/bidder signature as per direction of engineer in charge. SS Screws Philips C'Sunk Self Tapping Screws. Drilled and Screwed on Walls with rawl plugs / DA material. language: English, Urdu, Pashto	sq inch	NSI	42.60	720.00	30,672.00
TOTAL AMOUNT NON- SHEDULE ITEMS						85,204.00

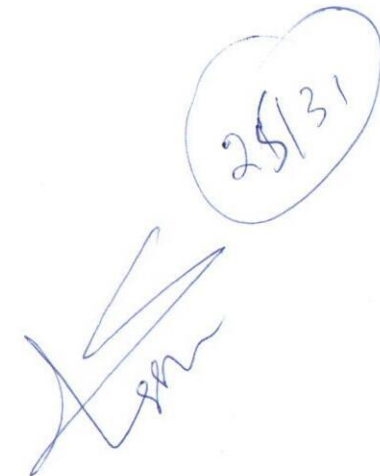
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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS VERTICAL
EXTENSION ON THE SECOND FLOOR OF NEWLY CONSTRUCTED BUILDING WARD "C" MTI SWABI**

SNo	DESCRIPTION	UNIT	Ref #	RATE	QTY.	Amount
1	Supply and Erection best quality AC ceiling fan complete with GI rod, canopy, blades & regulator : 56" sweep	Each	15-68.	6,261.75	2.00	12,523.50
2	Supply and fixing electric AC exhaust/fresh air circulation(Double way) 220/230 single phase plastic frame body and blade complete 12"x12"	Each	15-77-c	4,793.77	1.00	4,793.77
3	Supply and Fixing electric AC exhaust/fresh air circulation(double way) 220/230 single phase plastic frame body and blade complete 10"x10"	Each	15-77-b	5,046.77	1.00	5,046.77
4	Supply and Fixing bracket fan	Each	15-78.	6,168.38	1.00	6,168.38
5	Supply and Erection PVC pipe for wiring purpose complete On surface including clamps etc: 1/2" i/d	M	15-02-a-01	88.25	50.00	4,412.50
6	Supply and Erection PVC pipe for wiring purpose complete On surface including clamps etc: 3/4" i/d	M	15-02-a-02	105.09	50.00	5,254.50
7	Supply and Erection PVC pipe for wiring purpose complete On surface including clamps etc: 1" i/d	M	15-02-a-03	122.16	30.00	3,664.80
8	Wiring of sub main/earthing in 1 single core PVC insulated & sheathed cable : 3/0.029"	M	15-48-a	93.99	40.00	3,759.60
9	Wiring of sub main/earthing in 1 single core PVC insulated & sheathed cable : 7/0.029"	M	15-48-b	155.97	50.00	7,798.50
10	Wiring of sub main/earthing in 1 single core PVC insulated & sheathed cable : 7/0.044"	M	15-48-c	263.44	50.00	13,172.00
11	Wiring of sub main/earthing in 1 single core PVC insulated & sheathed cable : 7/0.064"	M	15-48-d	621.12	15.00	9,316.80
12	Supply and Erection single core PVC insulated copper conductor 250/440 V grade cable : 3/0.036"	M	15-05-b	96.94	35.00	3,392.90

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13	Supply and Erection single core PVC insulated copper conductor 250/440 V grade cable : 7/0.064"	M	15-05-f	635.58	90.00	57,202.20
14	Supply and Erection single core PVC insulated copper conductor 250/440 V grade cable : 19/0.064"	M	15-05-g	950.96	60.00	57,057.60
15	Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 7/0.064"	M	15-07-a	618.59	55.00	34,022.45
16	Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 19/0.052"	M	15-07-b	1,035.69	25.00	25,892.25
17	Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 19/0.064"	M	15-07-c	1,356.58	20.00	27,131.60
18	Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 19/0.083"	M	15-07-d	2,419.32	20.00	48,386.40
19	Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 37/0.072"	M	15-07-e	3,682.37	15.00	55,235.55
20	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 30 Amp.	Each	15-70-a	1,812.60	1.00	1,812.60
21	Supply and Erection transpower auto circuit breaker 3-phase, 400V fungus moisture proofing : 60 Amp.	Each	15-70-b	2,055.60	1.00	2,055.60



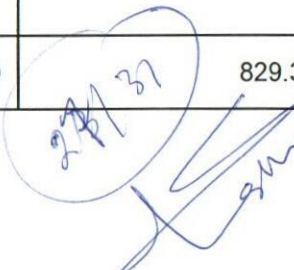
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22	Supply and Erection single phase imported auto circuit breaker 15 Amp.	Each	15-71-b	658.86	5.00	3,294.30
23	Supply and Erection single phase imported auto circuit breaker 20 Amp	Each	15-71-c	950.40	4.00	3,801.60
24	Supply at site, installation, testing and commissioning of Three Pin 220 V 20 Amps Switch socket, complete in all respects	Each	15-127-p	679.41	10.00	6,794.10
25	Supply and Fixing 20 Amp power plug	Each	15-81.	272.88	10.00	2,728.80
26	Supply and fixing light plug 10 Amp	Each	15-83	212.13	8.00	1,697.04
27	Supply, installation, connecting, testing and commissioning of Surface mounting LED tube light with 2x2000 lumens, complete in all respects	Each	15-36-k-01	3,042.00	8.00	24,336.00
28	Supply, installation, connecting, testing & commissioning of 10W LED Down Light Fixture suitable for 1300 lux, as per instruction of Engineer, surface mounted circular shape or equivalent.	Each	15-36-j-12	1,523.25	20.00	30,465.00
29	Precurement and Fixing of 10 Pin Kit with sheet	Each	15-170-a	1,495.35	3.00	4,486.05
30	Precurement and Fixing of 08 Pin Kit with sheet	Each	15-170-b	1,373.85	2.00	2,747.70
31	Precurement and Fixing of 06 Pin Kit with sheet	Each	15-170-c	1,252.35	3.00	3,757.05
32	Supply & Erection of 200 Amp Main switch	Each	15-11-b-05	10,093.50	1.00	10,093.50
33	Supply and Erection of INVERTER BASED SPLIT AC (1.5 Ton)	No	26-01-p-02	141,687.00	4.00	566,748.00
34	Supply, installation, testing & commissioning of Analogue Addressable Optical Smoke Detector with Base; 24 VDC; UL LISTED, low voltage, solid state, Not Radio Active type, uni-polar and dual chamber with LED alarm indication to be installed on RCC slab, complete in all respects.	Each	15-131-d	13220.12	1.00	13,220.12
35	Supply & erection of Earth Rod	Each	15-105-a	1,710.80	1.00	1,710.80
TOTAL SCHEDULE ITEMS						1,063,980.33

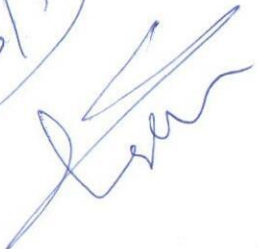
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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS VERTICAL EXTENSION ON
THE SECOND FLOOR OF NEWLY CONSTRUCTED BUILDING WARD "C" MTI SWABI**


S No	Description	UNIT	Ref #	RATE	QTY.	Amount
1	Providing and Fixing glazed earthen ware WC squatting type with built-in foot rests : White.	Each	14-03-a	3713.81	1.00	3,713.81
2	Providing and Fixing glazed earthen ware WHB complete Size 25"x18" : White with pedestal.	Each	14-05-b-01	5474.33	1.00	5,474.33
3	Providing and fixing chorimum plated (CP) mixing valve for wash hand basin (WHB), sink or shower of approved (Best) quality	Each	14-27-a	4357.08	1.00	4,357.08
4	Providing and fixing chromium plated (CP) pillar-cock, heavy duty of approved quality : 2 cm (3/4")	Each	14-21-a	1565.01	2.00	3,130.02
5	Providing and fixing chromium plated (CP) pillar-cock, heavy duty of approved quality : 1.5 cm (1/2")	Each	14-21-b	1241.82	2.00	2,483.64
6	Providing and fixing chromium plated CP stop-cock, heavy type : 2 cm (3/4")	Each	14-22-a	913.77	1.00	913.77
7	Providing and fixing chromium plated (CP) bib-cock heavy duty of approved quality : 2 cm 3/4"	Each	14-24-a	1565.01	2.00	3,130.02
8	Providing and fixing chromium plated (CP) tee stop cock 2 cm (3/4") of approved quality	Each	14-25-b	1075.36	2.00	2,150.72
9	Providing and fixing best quality looking glass 5 mm thick neatly fitted on masonry wall etc. as per instruction of Engineer In-charge complete. Mirror 60 x 45 cm (24"x18") size	Each	14-17-a	2529.49	1.00	2,529.49
10	Providing and Fixing CP soap dish.	Each	14-13	829.33	1.00	829.33

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11	Providing and Fixing CP toilet paper holder.	Each	14-15	802.84	1.00	802.84
12	Providing and Fixing CP towel rail : 24" long, 3/4" dia.	Each	14-16-a	1267.94	1.00	1,267.94
13	Providing and Fixing best quality 5mm glass shelf 24"x5" With chromium plated brackets & railing.	Each	14-18-a	1184.03	1.00	1,184.03
14	Providing and Fixing waste pipe of PVC : 1.25"	Each	14-43-a	229.36	1.00	229.36
15	Providing and Fixing 1/2" dia connection including check nuts etc Plastic rubber connection.	Each	14-47-a	260.6	2.00	521.20
16	Supply and Fixing low level plastic flushing cistern.	Each	14-78	3550.23	1.00	3,550.23
17	Providing and Fixing of poly dex high pressure PPR (green including testing ect complete 25 mm(including all special etc)	m	14-71-a	440.93	40.00	17,637.20
18	Providing and Fixing of polydex high pressure PPR (green including testing ect complete 20 mm(including all special etc)	m	14-71-b	352.38	40.00	14,095.20
19	Providing and Fixing of pipe type B nikasi system including testing in all respect 110 mm (using dadex, or eq)	m	14-70-a	2535.52	20.00	50,710.40
20	Providing and Fixing of pipe type B nikasi system including testing in all respect 75 mm (using dadex, or eq)	m	14-70-b	1430.62	15.00	21,459.30
21	Providing and Fixing GI pipe & including specials complete 1" dia (light)	m	14-55-d	1131.09	10.00	11,310.90

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22	Providing and Fixing GI pipe & including specials complete 3/4" dia (light)	m	14-55-e	851.1	10.00	8,511.00
23	Providing and Fixing GI pipe & including specials complete 1/2" dia (light)	m	14-55-f	625.61	20.00	12,512.20
24	Providing and Fixing brass ball float valve of approved quality: 1/2" (13 mm) dia	Each	14-48-a	437.19	2.00	874.38
25	Providing and Fixing brass ball float valve of approved quality: 3/4" dia	Each	14-48-b	476.67	1.00	476.67
26	Providing & fixing chromium plated double bib-cock with Muslim Shower of approved quality Complete is all respects.	Each	14-86.	2775.6	1.00	2,775.60
27	Supply and Fixing of CP floor Truff Jalli with Grating 6"×6" complete	Each	14-104-b	395.45	1.00	395.45
28	Providing and Fixing GI pipe & including specials complete 2" dia (light)	m	14-55-a	2287.55	100.00	228,755.00
TOTAL SCHEDULE ITEMS						405,781.11

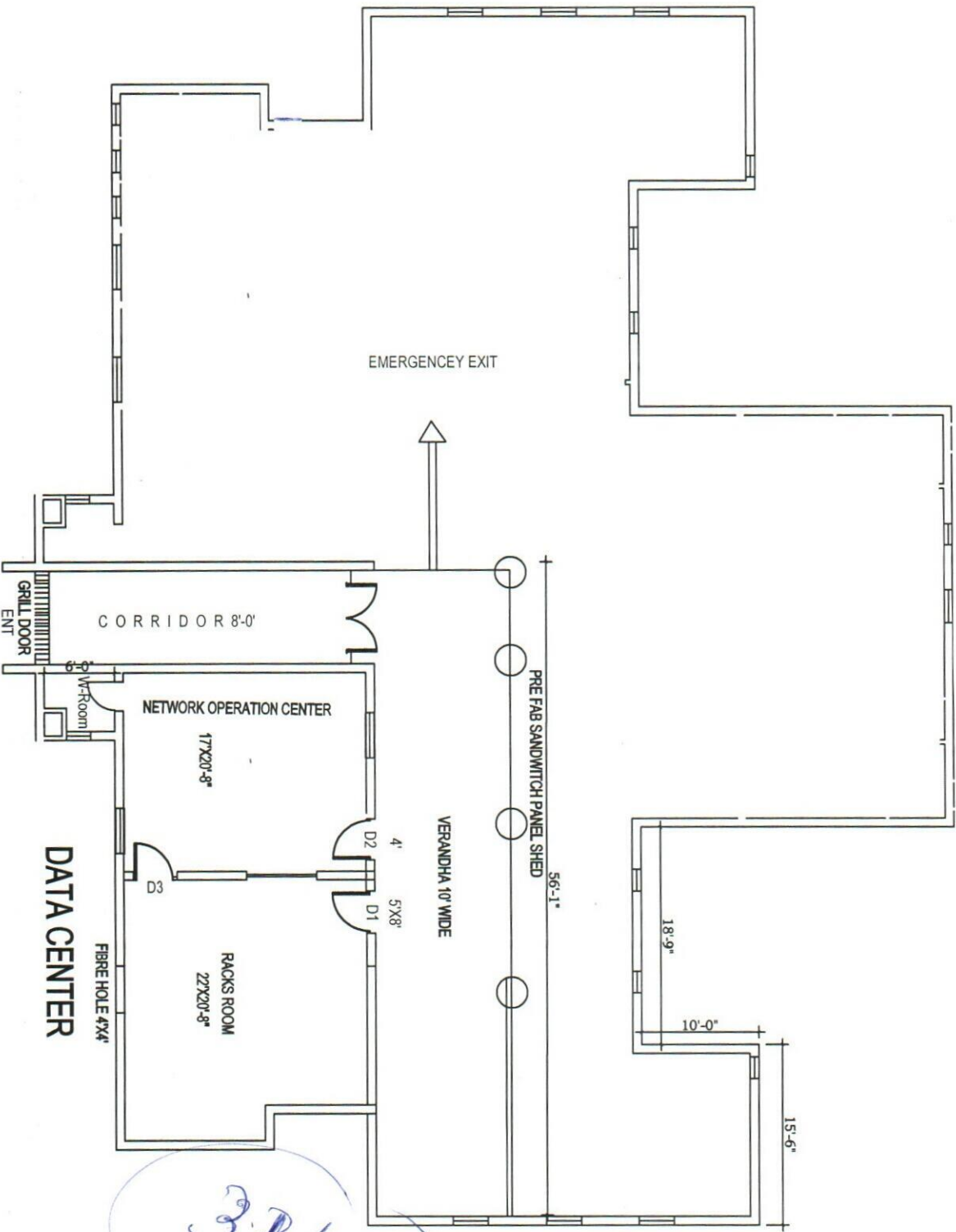
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**ESTABLISHMENT/ CONSTRUCTION OF IT DATA CENTRE OF NEW BUILDING AS VERTICAL
EXTENSION ON THE SECOND FLOOR OF NEWLY CONSTRUCTED BUILDING WARD "C" MTI SWABI**

S NO	Description	Unit	Ref no#	Rate (Rs)	Qty	Amount (Rs)
1	Pre fab shed 75mmsandwitch pannel with .45mmmmcgi sheet on high stenght Msfram consisting of 1.5"x3"(Swg 18) and trusses of 1.5"x3" 18swg piller 3"x3" 16swg	sft	NSI	850.5	550.00	467,775.00
TOTAL AMOUNT						467,775.00

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L.S.M.

ESTABLISHMENT OF IT DATA CENTER AND SERVER ROOM ON NEW BUILDING AS VERTICAL EXTENSION ON THE 2ND FLOOR OF NEWLY CONSTRUCTED BUILDING WARD 'C' MTI SWABI



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