

Bacha Khan Medical Complex/Medical Teaching Institution Gajju Khan  
Swabi.(Establishment/Construction of Laboratory on 2<sup>nd</sup> floor of the  
existing ER building).

Issued to: \_\_\_\_\_  
Date: \_\_\_\_\_

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**Bidding Documents for**  
**Establishment/Construction of Laboratory on the existing ER 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 Laboratory on the existing ER 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 KPPRA.

**One Bid per Bidder:** Each bidder shall submit only one bid either by himself or through joint venture with other firm.

**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 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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**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.

**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.

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

**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.

**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.

- 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.

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

- 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.

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

**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:

- 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.

**Mandatory Requirements:**

**Technical Qualification Criteria**

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*For Sr. marks*

Sr. No.	Description	Marks Allocation
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2) For Ongoing Projects: (Table 2)

Sr. No.	Description	Max marks	Total Marks Allotted
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"> <li>• 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.</li> <li>• 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.</li> </ul>		
	Marks Allocation		

1) For Completed Projects: (Table 1)

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

Total:	100	
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S No	Description	Marks assigned
1	BSC Civil Engineer registered with PEC & having more than 3 years experience	5 marks 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/CivilEngineers having experience more than 2 years	2 Marks will be assigned for each B Tech Engineer up to maximum 4 marks
5	DAE Civil/Electrical having experience more than 2 years.	1 Mark will be assigned for each DAE Engineer up to maximum 2 Marks.
		<b>20</b>

**Personnel Capabilities: (Max 20 marks)**

Total Marks Allocated	
1	<p>Experience as prime constructor in execution of similar projects. Similarly based on physical size and other Characteristics</p> <p>15</p> <ul style="list-style-type: none"> <li>• 7.5 Marks will be awarded for each Ongoing building Project having cost more than 40 Million up to maximum 2 projects</li> <li>• 5 marks will be awarded for each ongoing building Project having cost more than 20 Million up to maximum 2 Projects.</li> </ul>

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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

Equipments Capabilities:(20 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.

S No	Liquid Assets	Assigned marks
1	Less than 10 Million	0 Marks
2	10 Million to 20 Million	11 Marks
3	More than 30 Million	15 Marks

ii) Liquid Assets(15 marks)

S No	Annual Turn Over	Assigned marks
1	Less than 10 Million	0 Marks
2	10 Million to 30 Million	11 Marks
3	More than 40 Million	15 Marks

i) Average Annual Turn Over: (15 marks)

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

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



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To  
The Hospital Director  
BKMC/GKMC MTI Swabi

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

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

**Financial Evaluation**

	Total Marks	20
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Subject: Form of Bid for Establishment/Construction of Laboratory on the existing ER 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 AddendaNos. \_\_\_\_\_ 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 26<sup>th</sup> March 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 26<sup>th</sup> March 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: \_\_\_\_\_

General Specifications



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**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 GI 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.

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 an authorized entry. The Contractor shall be responsible for safety, mention standards and be liable for any accidents which may occur.

**2.2 Sand**

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

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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.

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

Class C Concrete:	1 : 4 : 8	cement : sand : aggregate
Class B Concrete:	1 : 2 : 4	cement : sand : aggregate
Class A Concrete:	1 : 1 1/2 : 3	cement : sand : aggregate

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

**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.

**2.5 Water**

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

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

**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.

Aggregates used for concrete work should be approved by the 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.

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

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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.

**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 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.

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

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The walls shall be thoroughly (as required) wetted before applying the plaster. The plaster shall be 1/2 inch to 3/4 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 1/2 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 1/2" \* 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.

## 2.18 False Ceiling

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

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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.

## 2.18 Doors/Ventilator

### 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.

#### 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 1/4" 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.

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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.

4.3 Switches/Sockets  
Switches and sockets shall be concealed manner. The switches shall be installed 4'1" 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.

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.