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# **INVITATION FOR BIDS**



## SINDH AGRICULTURE UNIVERSITY TANDO JAM

Phone # 022-3405140, Fax # 022-2765870, email: [www.sau.edu.pk](http://www.sau.edu.pk)

"Say No to Corruption"

No. PD-SAU-2022/ 697


Dated: 04/11/2022

### NOTICE INVITING TENDER

Sealed tenders on percent rates are invited as per SPPRA Rules 2010 (Amended 2019) on "Single Stage Two Envelope" procedure from eligible Contractors / Firms who are registered with PEC (Category C4 and above), FBR and SRB departments for the below mentioned works:

S . #	Tender Name of work	Tender Schedule-Date & Time				Completion Period
		Issue / Sale		Submission Date	Opening Date	
		From	To			
1 .	Construction of Judo Academy at Sindh Agriculture University Tandojam.	07/11/2022	29/11/2022	30/11/2022 at 11:00 a.m.	30/11/2022 at 11:30 a.m.	18 months
2 .	Construction of Advance Resource Centre at Sindh Agriculture University Tandojam.	07/11/2022	29/11/2022	30/11/2022 at 11:00 a.m.	30/11/2022 at 11:30 a.m.	18 months

1. The Bid Documents can be obtained from the office of undersigned against payment of tender fee (non-refundable) of Rs. 5000/- Cash / Pay Order / Demand Draft in favour of Sindh Agriculture University Tandojam. Bidding Documents containing detailed terms and conditions can be downloaded from the SPPRA website [www.ppms.pprasinhd.gov.pk](http://www.ppms.pprasinhd.gov.pk) and University website [www.sau.edu.pk](http://www.sau.edu.pk).
2. Amount of bid security shall be 5% of the total bid price of the bidder in shape of Pay Order / Call Deposit / Bank Draft only in favor of Sindh Agriculture University Tandojam and submit along with the Bid Document duly filled in.
3. Any conditional or Telegraphic or without bid security/call deposit or the tender received after specific date and time and blacklisted firms will not be considered.
4. Audit Report of 3 years showing turnover Rs. 100 Million per year.
5. The firm should have same office address registered as mentioned in PEC & FBR.
6. The Financial bids of the eligible firms will only be opened who will fulfil the mandatory eligibled criteria.
7. In case of any unforeseen situation or Government holiday resulting in closure of office or non-availability of undersigned on the day of opening, bids shall be submitted / opened on next working day at the given time and venue.

  
PROJECT DIRECTOR  
SAU, Tandojam (022-3405140)

# **INSTRUCTIONS TO BIDDERS**

## INSTRUCTIONS TO BIDDERS

### A. GENERAL

#### IB.1 Scope of Bid

- 1.1 Procuring agency as defined in the bidding data hereinafter called “the procuring agency” wishes to receive bids for the construction and completion of works as described in these bidding documents, and summarized in the bidding data hereinafter referred to as the “Works”.
- 1.2 The successful bidder will be expected to complete the works within the time specified in Appendix-A to Bid.

#### IB.2 Source of Funds

- 2.1 Procuring agency has received funds from Higher Education Commission (HEC), Government of Pakistan (GoP) in Pakistani currencies towards the cost of the project /scheme specified in the bidding data, and it is intended that part of the proceeds of this funds will be applied to eligible payments under the contract for which these bidding documents are issued.

#### IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all interested bidders who are eligible under provisions of Sindh Public Procurement Rules as mentioned below and the criteria given in the Notice Inviting Tender (NIT)/ Bidding Document.

Firms and individuals, national or international, may be allowed to bid for any project where international competitive bidding is feasible. Any conditions for participation shall be limited to those that are essential to ensure the bidder’s capability to fulfill the contract in question.

- (a) Bidders may be excluded if;
  - (i) as a matter of law or official regulations, commercial relations are prohibited with the bidder’s country by the federal Government in case of ICB, or
  - (ii) a firm is blacklisted/ debarred by the procuring agency and the matter has been reported to the Authority, subject to Rule 30 of Sindh Public Procurement Rules 2010.
- (b) Government-owned enterprises or institutions may participate only if they can establish that they are;
  - (i) legally and financially autonomous, and
  - (ii) operate under commercial law.

Provided that where government-owned universities or research centers in the country are of a unique and exceptional nature, and their participation is critical to project implementation, they may be allowed to participate; and Bidders shall include all those contractors who are registered or incorporated in Pakistan, irrespective of the nationality of their owners and professional staff, or

- (c) Bidders are:-
- (i) pre-qualified with procuring agency for particular project/scheme;
  - (ii) registered with Pakistan Engineering Council in particular category and discipline,
  - (iii) registered with relevant tax authorities (income/sales tax, wherever applicable)

#### **IB.4 One Bid per Bidder**

- 4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.16) will be disqualified.

#### **IB.5 Cost of Bidding**

- 5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids, and the procuring agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

#### **IB.6 Site Visit**

- 6.1 The bidders are advised to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for construction of the works. All cost in this respect shall be at the bidder's own expense.
- 6.2 The bidders and any of their personnel or agents will be granted permission by the procuring agency to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the procuring agency, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

### **B. BIDDING DOCUMENTS**

#### **IB.7 Contents of Bidding Documents (SSP RULE 21)**

- 7.1 The bidding documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any addenda issued in accordance with Clause IB.9.
- a. Instructions to Bidders.
  - b. Bidding Data.
  - c. General Conditions of Contract, Part-I (GCC).
  - d. Special Conditions of Contract, Part-II (SCC)
  - e. Specifications.
  - f. Form of Bid and Appendices to Bid.
  - g. Bill of Quantities (Appendix-D to Bid).
  - h. Form of Bid Security.
  - i. Form of Contract Agreement.
  - j. Forms of Performance Security, Mobilization Advance Guarantee, Integrity Pact and Indenture bond for secured advance.
  - k. Drawings.
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the BD will be rejected.

#### **IB.8 Clarification of Bidding Documents (SSP RULE 23(1)):**

Any interested bidder requiring any clarification(s) in respect of the bidding

documents may notify the procuring agency in writing at the procuring agency's address indicated in the Invitation for Bids/NIT. Procuring agency will respond to any request for clarification provided they are received at least five calendar days prior to the date of opening of bid.

Provided that any clarification in response to query by any bidder; shall be communicated to all parties who have obtained bidding documents.

**IB.9 Addendum/Modification of Bidding Documents:**

- 9.1 At any time prior to the deadline for submission of bids, the procuring agency may, for any reason, whether at his own initiative or in response to a clarification requested by a interested bidder, modify the bidding documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the bidding documents pursuant to sub-clause IB 7.1 hereof and shall be communicated in writing to all bidders. Interested bidders shall acknowledge receipt of each addendum in writing to the procuring agency.
- 9.3 To afford bidders reasonable time in which to take an addendum into account in preparing their bids, the procuring agency may extend the deadline for submission of bids in accordance with IB.20

**C. PREPARATION OF BIDS**

**IB.10 Language of Bid**

- 10.1 The bid and all correspondence and documents related to the bid exchanged by a bidder and the procuring agency shall be in the language stipulated in the bidding data and Special Conditions of the Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

**IB.11 Documents Accompanying the Bid**

- 11.1 Each bidder shall:
  - (a) submit a written authorization on the letterhead of the bidding firm, authorizing the signatory of the bid to act for and on behalf of the bidder;
  - (b) update the information indicated and listed in the bidding data and previously submitted with the application for prequalification, and continue to meet the minimum criteria set out in the prequalification documents, which as a minimum, would include the following :
    - (i) Evidence of access to financial resources along with average annual construction turnover;
    - (ii) Financial predictions for the current year and the following two years, including the effect of known commitments;
    - (iii) Work commitments since prequalification;
    - (iv) Current litigation information; and
    - (v) Availability of critical equipment.

And

- (c) furnish a technical proposal taking into account the various Appendices to Bid specially the following:

Appendix-E to Bid	Proposed Construction Schedule
Appendix-F to Bid	Method of Performing the Work
Appendix-G to Bid	List of Major Equipment



Appendix-K to Bid Organization Chart for Supervisory Staff  
and other pertinent information such as mobilization program etc.

- 11.2 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the bidders' proposals to meet the technical specifications and the completion time referred to sub-clause IB 1.2 hereof.

**IB.12 Bid Prices**

- 12.1 Unless stated otherwise in the bidding documents, the contract shall be for the whole of the works as described in IB 1.1 hereof, based on the unit rates or prices submitted by the bidder or percentage quoted above or below on the rates of Composite Schedule of Rates (CSR), as the case may be.
- 12.2 The bidders shall fill in rates and prices for all items of the works described in the Bill of Quantities. Items against which no rate or price is entered by a bidder will not be paid for by the procuring agency when executed and shall be deemed to be covered by rates and prices for other items in the Bill of Quantities. In case of Composite Schedule of Rates, if the bidder fails to mention the percentage above or below, it shall be deemed to be at par with the rates of Composite Schedule of Rates.
- 12.3 The bid price submitted by the contractor shall include all rates and prices including the taxes. All duties, taxes and other levies payable by the contractor under the contract, or for any other cause during the currency of the execution of the work or otherwise specified in the contract as on the date seven days prior to the deadline for submission of bids.

**IB.13 Currencies of Bid and Payment**

- 13 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees.

**IB.14 Bid Validity**

- 14.1 Bids shall remain valid for the period stipulated in the bidding data from the date of opening of bid specified in clause IB.23 (i.e. 90 days).
- 14.2 In exceptional circumstances, prior to expiry of the original, the procuring agency may request the bidders to extend the period of validity for a specified additional period, which shall not be for more than one third of the original period of bid validity. The request and the responses thereto, shall be made in writing. A bidder may refuse the request without the forfeiture of the bid security. In case, a bidder agreed to the request, shall not be required or permitted to modify the bid, but will be required to extend the validity of the bid security for the period of the extension, and in compliance with Clause IB.15 in all respects.

**IB.15 Bid Security**

- 15.1 Each bidder shall furnish, as part of the bid, a bid security in the amount stipulated in the bidding data in Pak Rupees.
- 15.2 The bid security shall be at the option of the bidder, in the form of deposit at call, Pay order only issued by a Scheduled Bank in favour of the procuring agency, which should commensurate with the bid validity period
- 15.3 Any bid not accompanied by an acceptable bid security shall be rejected by the procuring agency as non-responsive.
- 15.4 Bid security shall be released to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired.
- 15.5 The bid security may be forfeited:
- (a) if the bidder withdraws his bid except as provided in sub-clause IB 22.1;
  - (b) if the bidder does not accept the correction of his bid price pursuant to sub-clause IB 27.2 hereof; or

- (c) In the case of successful bidder, if he fails within the specified time limit to:
  - (i) sign the Contract Agreement.

#### **IB.18 Format and Signing of Bid**

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the contract strictly in accordance with the bidding documents.
- 18.2 All appendices to bid are to be properly completed and signed.
- 18.3 Alteration is not to be made neither in the form of bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms without alterations and shall provide an original copy along with photocopies as per the requirement of the procuring agency specified in the bidding data. The original as well as copies of the document shall be clearly marked as “ORIGINAL” and „COPY”, as the case may be. If there is any discrepancy between original and copy (ies) then the original shall prevail.
- 18.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person(s) duly authorized to sign on behalf of the bidder pursuant to sub- clause IB 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person(s) signing the bid.
- 18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the procuring agency, or as are necessary to correct errors made by the bidder. Such corrections shall be initialed by the person(s) signing the bid.
- 18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper postal addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the contract is to be sent.
- 18.8 Bidders should retain a copy of the bidding documents as their file copy.

#### **D. SUBMISSION OF BIDS**

##### **IB.19 Sealing and Marking of Bids**

- 19.1 Each bidder shall submit his bid as under:
  - (a) ORIGINAL and COPIES of the bid shall be separately sealed and put in separate envelopes and marked as such.
  - (b) The envelopes containing the ORIGINAL and COPIES shall be put in one sealed envelope.
- 19.2 The inner and outer envelopes shall:
  - (a) be addressed to the procuring agency at the address provided in the bidding data;
  - (b) bear the name and identification number of the contract as defined in the bidding data; and
  - (c) provide a warning not to open before the time and date for bid opening, as specified in the bidding data.
- 19.3 In addition to the identification required in sub- clause IB 19.2 hereof, the inner envelope shall indicate the name and postal address of the bidder to enable the bid to be returned unopened in case it is declared “late” pursuant to Clause IB.21
- 19.4 If the outer envelope is not sealed and marked as above, the procuring agency will assume no responsibility for the misplacement or premature opening of the Bid.

##### **IB.20 Deadline for Submission of Bids**

- 20.1 (a) Bids must be received by the procuring agency at the address specified not later than the time and date stipulated in the bidding data,

- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims shall be entertained for refund of such expenses,
  - (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package,
  - (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.
- 20.2 The Procuring Agency may, at its discretion, extend the deadline for submission of bids by issuing an amendment in accordance with IB 09. In such case, all rights and obligations of the procuring agency and the bidders shall remain the same as mentioned in the original deadline.

#### **IB.21 Late Bids**

- (a) any bid received by the procuring agency after the deadline for submission of bids prescribed in to clause IB 20 shall be returned unopened to such bidder.
- (b) delays in the mail, person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder's responsibility to submit the bid in time.

#### **IB.22 Modification, Substitution and Withdrawal of Bids**

- 22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the procuring agency prior to the deadline for submission of bids.
- 22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.
- 22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with to sub - clauses IB 22.1 and IB 27.2.
- 22.4 Withdrawal of a bid during the interval between the deadlines for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the bid security in pursuance to clause IB 15.

### **E. BID OPENING AND EVALUATION**

#### **IB.23 Bid Opening**

- 231 Procuring agency will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the bidding data. The bidders or their representatives who are in attendance shall sign an attendance sheet.
- 232 Envelopes marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to clause IB.22 shall not be opened.
- 233 Procuring agency shall read aloud the name of the bidder, total bid price and price of any Alternate Proposal(s), if any, discounts, bid modifications, substitution and withdrawals, the presence or absence of bid security, and such other details as the procuring agency may consider appropriate, and total amount of each bid, and of any alternative bids if they have been requested or permitted, shall be read aloud and

recorded when opened.

- 234 Procuring Agency shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the sub-clause IB.23.3.

**IB.24 Process to be Confidential. (SPP Rule 53)**

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report in accordance with the requirements of Rule 45, which states that Procuring agencies shall announce the results of bid evaluation in the form of a report giving reasons for acceptance or rejection of bids. The report shall be hoisted on website of authority and that of procuring agency if it website exists and intimated to all bidders at least seven (7) days prior to the award of contract. The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the procuring agency's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas, any bidder feeling aggrieved, may lodge a written complaint as per Rule 31; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

**IB.25 Clarification of Bid (SPP Rule 43)**

- 25.1 To assist in the examination, evaluation and comparison of bids, the procuring agency may, at its discretion, ask any bidder for clarification of the bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the procuring agency in the evaluation of the bids in accordance with clause IB 28.

**IB.26 Examination of Bids and Determination of Responsiveness**

- 26.1 Prior to the detailed evaluation of bids, the procuring agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.

- 26.2 Once found to be fulfilling the eligibility criteria, as mentioned in sub-clause 26.1, the bids of eligible bidders will be evaluated for technical responsiveness as per specification and criteria given in the bidding documents. Technical and financial evaluations may be carried out in accordance with single stage-single one envelope, single stage-two envelopes, two stage or two stage-two envelopes bidding procedures, depending on the selection procedure adopted by the procuring agency.

- 26.3 A bid will be considered technically responsive if it (i) has been properly signed; (ii) is accompanied by the required bid security; and (iii) conforms to all the terms, conditions and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the works; (ii) which limits in any substantial way, inconsistent with the bidding documents, the procuring agency's rights or the bidder's obligations under the contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

**IB.27 Correction of Errors before Financial Evaluation**

- 27.1 Bids determined to be substantially responsive will be checked by the procuring agency for any arithmetic errors. Errors will be corrected by the procuring agency as follows:
- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
  - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the procuring agency there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.
- 27.2 The amount stated in the Form of Bid will be adjusted by the procuring agency in accordance with the above procedure for the correction of errors and with the concurrence of the bidders. The amount thus corrected shall be considered as binding upon the bidder. If the bidder does not accept the corrected bid price, his bid will be rejected, and the bid security shall be forfeited in accordance with sub- clause IB 15.6(b) hereof.

**IB.28 Financial Evaluation and Comparison of Bids**

- 28.1 The procuring agency will evaluate and compare only the Bids determined to be substantially responsive in accordance with clause IB 26.
- 28.2 The estimated effect of the price adjustment provisions of the conditions of contract, applied over the period of execution of the contract, shall not be taken into account in bid evaluation.
- 28.3 If the bid of the successful bidder is seriously unbalanced in relation to the procuring agency's estimate of the cost of work to be performed under the contract, the procuring agency may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the procuring agency may require that the amount of the Performance Security set forth in clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the procuring agency against financial loss in the event of default of the successful bidder under the contract.
- 28.4** Bidders may be excluded if involved in "**Corrupt and Fraudulent Practices**" means either one or any combination of the practices given below SPP Rule2(q);
- (i) "**Coercive Practice**" means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
  - (ii) "**Collusive Practice**" means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
  - (iii) "**Corrupt Practice**" means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
  - (iv) "**Fraudulent Practice**" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
  - (v) "**Obstructive Practice**" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately

destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.

**28.5 Evaluation Report (SPP Rule 45)**

After the completion of evaluation process, as described in clauses IB 27 and IB 28, the procuring agency shall announce the results of bid evaluation in the form of report (available on the website of the authority) giving reasons for acceptance and rejection of bid. The report shall be hoisted on website of the authority and that of procuring agencies if its website exists and intimated to all bidders at least seven (7) days prior to the award of contract.

**F. AWARD OF CONTRACT**

**IB.29 Award (SPP Rule 49)**

29.1 Subject to clauses IB 30 and IB 34 and provision of the rule: The procuring agency shall award the contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents, and who has offered the lowest evaluated bid, but not necessarily the lowest submitted price, within the original or extended period of bid validity. Provided that such bidder has been determined to be eligible in accordance with the provisions of clause IB 03 and qualify pursuant to sub-clause IB 29.2.

29.2 Procuring agency, at any stage of the bid evaluation, having credible reasons for or having *prima facie* evidence of any deficiency(ies) in contractor's capacities, may require the contractor to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not for the said project.

Provided, that such qualification shall only be laid down after recording reasons thereof, in writing. They shall form part of the records of that bid evaluation report.

**IB.30 Procuring Agency's Right to reject all Bids or Annul/Cancellation the Bidding Process (SPP Rule 25)**

Notwithstanding clause IB 29 and provision of the rule: (1) A procuring agency reserves may cancel the bidding process at any time prior to the acceptance of a bid or proposal; (2) The procuring agency shall incur no liability towards bidders solely by virtue of its invoking sub –rule (1); (3) Intimation of the cancellation of bidding process shall be given promptly to all bidders and bid security shall be returned along with such intimation; (4) The procuring agency shall, upon request by any of the bidders, communicate to such bidder, grounds for cancellation of the bidding process, but is not required to justify such grounds.

**IB.31. Notification/Publication of the Award of Contract (SPP Rule 25)**

31.1 Prior to expiry of the period of bid validity, including extension, prescribed by the procuring agency, the procuring agency shall notify the successful bidder in writing ("Letter of Acceptance") that his bid has been accepted. This letter shall mention the sum which the procuring agency will pay to the contractor in consideration of the execution and completion of the works by the contractor as prescribed by the contract

(hereinafter and in the conditions of contract called the “Contract Price”).

- 31.2 No negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, procuring agency may hold meetings to clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the contract, binding the procuring agency and the bidder till signing of the formal Contract Agreement.
- 31.4 Upon furnishing by the successful bidder of a Performance Security and signing of the contract, the procuring agency will promptly notify the name of the successful bidder to all bidders and return their bid securities accordingly.
- 31.5 Within seven days of the award of contract, procuring agency shall publish on the website of the Authority and on its own website, if such a website exists, the results of the bidding process, identify the bid through procurement identifying numbers, and the following information:
- (1) Evaluation Report;
  - (2) Form of Contract and letter of Award;
  - (3) Bill of Quantities or Schedule of Requirement.

**31.6 Debriefing (SPP Rule 51)**

- (a) A bidder may ask the procuring agency for reasons for non-acceptance of his bid and may request for a debriefing meeting and procuring agency shall give him the reasons for such non acceptance, either in writing or by holding a debriefing meeting with such a bidder.
- (b) The requesting bidder shall bear all the costs of attending such a debriefing.

**IB.32 Performance Security (SPP Rule 39)**

- 32.1 The successful bidder shall furnish to the procuring agency a Performance Security in the form of pay order or demand draft or bank guarantee, and the amount stipulated in the bidding data and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.
- 32.2 Failure of the successful bidder to comply with the requirements of Sub-clause IB.32.1 or clauses IB 33 or IB 35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.
- 32.3 Validity of performance security shall extend at least ninety days beyond the date of completion of contract, or as mentioned in the bidding data to cover defects liability period or maintenance period subject to final acceptance by the procuring agency.

**IB.33 Signing of Contract Agreement (SPP Rule 39)**

- 33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the procuring agency will send the successful bidder the Contract Agreement in the form provided in the bidding documents, incorporating all agreements between the parties.
- 33.2 The formal Agreement between the procuring agency and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the procuring agency.
- 33.3 A procurement contract shall come into force when the procuring agency requires signs contract, the date on which the signatures of both the procuring agency and the successful bidder are affixed to the written contract. Such affixing of signatures shall take place within the time prescribed in the bidding documents.  
Provided that the procuring agency may reduce the maximum time limit for signing of contract, as and when required, and shall be mentioned in the bidding documents.

**33.4 Stamp Duty.**

The formal Agreement between the Procuring Agency and the successful bidder shall be duly stamped at rate of ----% of bid price (updated from time to time) stated in Letter of Acceptance.

**IB.34 General Performance of the Bidders**

Procuring agency may in case of consistent poor performance of the contractor and his failure to remedy the underperforming contract may take such action as may be deemed appropriate under the circumstances of the case including the rescinding the contract and/or black listing of such contractor and debarring him from participation in future bidding process.

**IB.35 Integrity Pact (SPP Rule 89)**

The bidder shall sign and stamp the Integrity Pact provided at Appendix-L to the bidding documents for all Provincial/Local Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

**IB.36 Instructions not Part of Contract**

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the bid or the Contract Documents.

**IB.37 Arbitration (SPP Rule 34)**

Any dispute that is not amicably resolved shall be finally settled, unless otherwise specified in the Contract, under the Arbitration Act 1940 updated from time to time and would be held anywhere in the Province of Sindh at the discretion of procuring agency.



# **BIDDING DATA**

## **CONTACT / BIDDING DATA**

- 1.1 Name and address of the procuring agency:  
*Sindh Agriculture University, Tandojam, Hyderabad, Sindh Pakistan  
Postal Code: 70060*
- 1.2 Name of the Project and Summary of the works:  
*Prime Minister Youth program (Construction of Judo Academy)*
- 2.1 Name of the Borrower/Source of Financing/Funding Agency/Funding Source;  
*The project is funded by Higher Education Commission (HEC) Government of Pakistan.*
- 2 Eligible Bidders  
*As Notified in NIT & Mandatory*
- 8.1 Time limit for clarification:  
*The Employer will respond to any request for clarification which he receives earlier than 07 (Seven) Days prior to the deadline for submission of bids.*
- 10.1 Bid language:  
*The bid and all correspondence and documents related to the bid exchanged by a bidder and the Employer shall be in the English language.*

### **11. Documents Accompany the Bid**

#### ***Evaluation / Qualification Criteria***

#### ***Mandatory Provisions / Eligibility: Firms / Contractors must possess***

#### ***A-Mandatory***

- (i) *Valid registration certificate of PEC in the category C-4 or above and in discipline CE-01, CE-09, CE-10 and EE-11 valid up to 30th June 2023 along with CV of Engineer, PEC registration.*
- (ii) *Registration certificates from Income Tax (FBR), Sales Tax (if required) and Sindh Revenue Board along with Tax Returns of last three years*
- (iii) *Documentary Evidence / Work orders of building works of category C4 and above 5 completed works within last five years with completion certificates and work orders of 3 ongoing works of same category.*
- (iv) *Bank Statement of last three years showing up-to-date balance 30% of bid amount.*
- (v) *Financial Status Assessment. The applicant is required to submit audited financial statement by a chartered accountant firm for last three years with turnover of 100 Million per year.*
- (vi) *Complete Company / Firm Profile with details of projects of building works, list of employees and equipment. Complete details of machinery on Company's letter head and duly signed.*
- (vii) *Affidavit of the contractors / firms that they are not involved in any litigation, departmental rift or abandoned or unnecessary delayed completion of any work in the Government and as well as in private organization.*
- (viii) *Physical presentation/verification of the professional staff and equipment with original documents. In the case of failure the firm / company will not be considered.*  
*(Attach all certificates and affidavit of not being blacklisted)*

**Company Profile**

Date: \_\_\_\_\_

Contract \_\_\_\_\_

*All individual firms applying for are requested to complete the information in this form:*

*Name of Firm (Legal):*

1

2

*Head Office Address:*

3

*Telephone:*

4

*Fax Number:*

*E-mail address:*

5

*Applicant's authorized representative:*

6

*Telephone:*

*Fax Numbers:*

*E-Mail Address:*

**NATIONALITY OF OWNERS:**

7.

*Name*

*Country*

A-II

**(i). General Experience Record**

*Details of Contracts of Building works and Complexity completed under the last 05 years*

<i>S.No.</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
<i>Name of Contract</i>					
<i>Location of Project</i>					
<i>Name of Procuring Agency with Address, Tele, Fax.</i>					
<i>Nature of Works and special features relevant to the contract for which applied.</i>					
<i>Value of the total Contract in Pak. Rs.</i>					
<i>Date of Award:</i>					
<i>Date of Completion</i>					

**(ii) Projects of Building works and complexity in hand.**

*Firms / Contractors and each partner of the joint venture should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, for which completion certificate has yet to be issued.*

<i>Name of Contract</i>	<i>Value of Contract</i>	<i>Name of Procuring Agency</i>	<i>Name of Outstanding Work (Equivalent Pak. Rs. Millions)</i>	<i>Estimated Completion Date</i>
<i>1</i>				
<i>2</i>				
<i>3</i>				

**6. Financial Sources.**

**Bi. Banker's Information:**

<b>S. No.</b>	<b>Name &amp; Address of Bank</b>	<b>Contact name and title</b>	<b>Telephone, Fax &amp; E-Mail address.</b>

**Bii. Financial Status:** Summarize actual assets and liabilities in Pak Rupees for the previous three years.

<i>Information from Balance Sheet /</i>	<i>Year 1:</i>	<i>Year 2:</i>	<i>Year 3:</i>
<b><i>Income Statement</i></b>			
<i>1.Total Assets (TA)</i>			
<i>2.Total Liabilities (TL)</i>			
<i>3.Current Assets (CA)</i>			
<i>4.Current Liabilities (CL)</i>			
<i>5.Total Revenue (TR)</i>			
<i>6. Profits Before Taxes (PBT)</i>			
<i>7.Profits After Taxes (PAT)</i>			

**IB.13.1 Currencies of Bid and Payment**

*The unit rates and the prices shall be quoted by the Bidder entirely in Pak Rupees. The Employer shall make payment only in Pak Rupees and no foreign currency payments are admissible. A Bidder expecting to incur expenditure in other currencies for inputs to the works supplied from outside the Employer's country shall bear all costs and risks for arranging the requirements of such currencies through his own resources.*

**IB.14.1 Bid Validity**

*Bids shall remain valid for the 90 Days after the Date of Bid Opening.*

**IB.15.1 Bid Security**

*Minimum 5% of Bid price in the form of Pay order/Bank Draft.*

18.4 Number of copies of the bid to be completed and returned:  
*one original and one copy (1+1)*

19.2 (a) Procuring Agency's address for the purpose of bid submission:  
*Office of Project Director, SAU Tandojam Campus Phone No: (+9222) 3405140*

(b) Name of work: ***“Construction of Judo Academy at SAU Tandojam”***

20.1 (a) Deadline for submission of bids:  
*As notified in “Invitation to Bids”*

(b) Venue, time, and date of bid opening:  
*As notified in “Invitation to Bids”*

23.5 ***SINGLE STAGE – TWO ENVELOPE PROCEDURE:***

*The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal; the envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion; initially, only the envelope marked “TECHNICAL PROPOSAL” shall be opened; the envelope marked as “FINANCIAL PROPOSAL” shall be retained in the custody of the procuring agency without being opened; the procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements; during the technical evaluation no amendments in the technical proposal shall be permitted; the financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance; after the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders; and the bid found to be the lowest evaluated bid shall be accepted.*

32.1 Standard form and amount of Performance Security acceptable to the procuring agency:

*The Performance Security shall be equal to an amount of 5% of the Contract Price stated in the Letter of Acceptance. Such Security shall be in the form of unconditional, irrevocable Bank Guarantee from any Scheduled Bank of Pakistan acceptable to the Employer in favour of SAU Tandojam*

32.3 Stamp duty

0.35% will be paid by successful bidder as stamp duty.  
[% will depend upon the rules]

**FORM OF BID  
AND  
APPENDICES TO BID**

**FORM OF BID**

To:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos. \_\_\_\_\_ for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) or such other sum as may be ascertained in accordance with the said conditions.
2. We/I 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/I submit herewith a bid security in the amount of Rupees \_\_\_\_\_ (Rs. \_\_\_\_\_) drawn in your favour or made payable to procuring agency and valid for a period of \_\_\_\_\_ days beginning from the date, bid is opened.
4. We/I 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 Appendix-A to Bid.
5. We/I agree to abide by this bid for the period of \_\_\_\_\_ days from the date fixed for opening 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.

We understand that you are not bound to accept the lowest or any bid you may receive.

9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 10 of Conditions of Contract for the due performance of the Contract.

10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution



**General Conditions of Contract (Tender Documents Vol-I) of  
Construction of Judo Academy at SAU Tandojam (Prime Minister Youth Program)**

of the joint venture shall not be altered without the prior consent of the procuring agency.  
(Please delete this in case of Bid form a single bidder)

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

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2022

Signature: \_\_\_\_\_

\_\_\_\_\_  
(Name of Bidder in Block Capitals)  
(Seal)

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witness:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Occupation: \_\_\_\_\_

**BILL OF QUANTITIES**

**A. Preamble**

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the consultant and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and will submit to Project Director.
3. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities and shall not be paid separately.
4. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the works and treated as Extra Item.
5. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the bidding documents shall be made before entering prices against each item in the priced Bill of Quantities.

**BILL OF QUANTITIES (SAMPLE)\***

**B. Work Items (Buildings)**

1. The Bill of Quantities contains the following Bills and Items:

Bill No. 1	-	Plinth and Foundation.
Bill No. 2	-	Ground floor.
Bill No. 3	-	First and Subsequent Floors.
Bill No. 4	-	Internal Water Supply and Sanitary Fittings.
Bill No. 5	-	Internal Electrification.
Bill No. 6	-	Miscellaneous Items
Bill No. 7	-	External Development

Day work Schedule  
Summary Bill of Quantities

2. Bidders shall price the Bill of Quantities in Pakistani Rupees only.

\* *Procuring Agency can add and delete the Items as per its requirement*

**BILL OF QUANTITIES (SAMPLE)**

**Bill No. 1 Earthworks/Plinth and Foundation**

Item	Description	Unit	Quantity	Rate		Amount Rupees
				Rupees figures	Rupees in words	
1	2	3	4	5		6
<b>101</b>						
<b>102</b>						
<b>103</b>						
<b>104</b>						
<b>105</b>						
<b>106</b>						
Total for Bill No. 1 (Carried forward to Summary Page)						_____

**BILL OF QUANTITIES (SAMPLE)**

**Bill No. 2 Hard Crust and Surface Treatment /Ground Floor.**

Item	Description	Unit	Quantity	Rate		Amount Rupees
				Rupees figures	Rupees in words	
1	2	3	4	5		6
201						
202						
203						
204						
205						
206						
Total for Bill No. 2						
(Carried forward to Summary Page)						

**BILL OF QUANTITIES (SAMPLE)**

**Bill No. 3 Culverts and Bridges/First and Subsequent Floors**

Item	Description	Unit	Quantity	Rate		Amount Rupees
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
<b>301</b>						
<b>302</b>						
<b>303</b>						
<b>304</b>						
<b>305</b>						
<b>306</b>						
Total for Bill No. 3 (Carried forward to Summary Page)						

Appendix-D to Bid

**BILL OF QUANTITIES (SAMPLE)**

**Bill No. 4 Subsurface Drains/ Pipe Laying and Man holes/Internal water Supply and Sanitary Fittings**

Item	Description	Unit	Quantity	Rate		Amount
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
<b>401</b>						
<b>402</b>						
<b>403</b>						
<b>404</b>						
<b>205</b>						
<b>406</b>						
Total for Bill No. 4						
(Carried forward to Summary Page)						

**BILL OF QUANTITIES (SAMPLE)**

**Bill No. 5 Tube wells and Pump-houses/Internal Electrification**

Item	Description	Unit	Quantity	Rate		Amount
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
501						
502						
503						
504						
505						
506						
Total for Bill No. 5 Carried forward to Summary Page )						



**BILL OF QUANTITIES (SAMPLE)**

**Bill No. 6 - Miscellaneous Items**

Item	Description	Unit	Quantity	Rate		Amount Rupees
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
601	Mobilization Cost					
602						
603						
604						
605						
606						
Total for Bill No. 6 Carried forward to Summary Page )						

**BILL OF QUANTITIES (SAMPLE)**

**Bill No. 7 External Development**

Item	Description	Unit	Quantity	Rate		Amount
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
601	Items of water supply & drainage					
602	Paths & parks					
603	External electrification					
604						
605						
606						
Total for Bill No. 7						
Carried forward to Summary Page ) _____						

Appendix-E to Bid

**PROPOSED CONSTRUCTION SCHEDULE**

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the works shall be completed on or before the date stated in Appendix-A to Bid. The bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the works and parts of the works may meet procuring agency's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

<u>Description</u>	<u>Time for Completion</u>
1) Whole works	_____ days
2) Part-A	_____ days
3) Part-B	_____ days
4) _____	_____ days
5) _____	_____ days

**METHOD OF PERFORMING THE WORK**

[The bidder is required to submit a narrative outlining the method of performing the work.

The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.

**Appendix-G to Bid**

**LIST OF MAJOR EQUIPMENT – RELATED ITEMS**

[The bidder will provide on Sheet 2 of this Appendix a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.]

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT (SAMPLE)

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
1	2	3	4	5	6	7
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

**Appendix-H to Bid**

**CONSTRUCTION CAMP AND HOUSING FACILITIES**

The Contractor in accordance with Clause 6 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

The contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the contractor's construction camp.

The bidder shall list or explain his plans for providing these facilities for the service of the contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
  - a) Power (expected power load, etc.).
  - b) Water (required amount and system proposed).
  - c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
  - a) Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
  - b) Warehouses and Storage Areas (area required, type of construction and layout).
  - c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).
5. Other Items Proposed (Security services, etc.).

**Appendix-J to Bid**

**ESTIMATED PROGRESS PAYMENTS (SAMPLE)**

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the works and the Rates in the Bill of Quantities, expressed in Pakistani Rupees:

<b>Quarter/ Year/ Period</b>	<b>Amounts (in thousands)</b>
<b>1</b>	<b>2</b>
Ist Quarter	
2 <sup>nd</sup> Quarter	
3 <sup>rd</sup> Quarter	
4 <sup>th</sup> Quarter	
5 <sup>th</sup> Quarter	
6 <sup>th</sup> Quarter	
7 <sup>th</sup> Quarter	
8 <sup>th</sup> Quarter	
9 <sup>th</sup> Quarter	
<b>Bid Price</b>	



**ORGANIZATION CHART  
FOR THE  
SUPERVISORY STAFF AND LABOUR**

(To be filled in by the bidder)

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC; PAYABLE BY  
CONTRACTORS.**

(FOR CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No. \_\_\_\_\_ Dated \_\_\_\_\_

Contract Value: \_\_\_\_\_

Contract Title: \_\_\_\_\_

..... [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from, from Procuring Agency (PA) except that which has been expressly declared pursuant hereto.

[name of Contractor] accepts full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, [name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

.....  
[ Procuring Agency]

[Contractor]

**BID SECURITY**  
**(Bank Guarantee)**

Security Executed on \_\_\_\_\_  
(Date)

Name of Surety (Bank) with Address: \_\_\_\_\_  
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address \_\_\_\_\_

Penal Sum of Security Rupees. \_\_\_\_\_ (Rs. \_\_\_\_\_)

Bid Reference No. \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto \_\_\_\_\_

(hereinafter called the 'Procuring Agency') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying bid dated \_\_\_\_\_ for Bid No. \_\_\_\_\_ for \_\_\_\_\_ (Particulars of Bid) to the said Procuring Agency; and

WHEREAS, the Procuring Agency has required as a condition for considering said bid that the **bidder** furnishes a bid security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the procuring agency, conditioned as under:

- (1) that the bid security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to bidders or as it may be extended by the procuring agency, notice of which extension(s) to the Surety is hereby waived;
- (2) that the bid security of unsuccessful bidders will be returned by the procuring agency after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said procuring agency pursuant to Clause 15.6 of the Instruction to bidders for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said procuring agency in accordance with his bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said procuring agency for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the procuring agency, the said sum upon first written demand of the procuring agency (without cavil or argument) and without requiring the procuring agency to prove or to show grounds or reasons for such demand,

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notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the procuring agency shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the procuring agency forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS:

Signature \_\_\_\_\_

1. \_\_\_\_\_

Name \_\_\_\_\_

\_\_\_\_\_

Title \_\_\_\_\_

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. \_\_\_\_\_

\_\_\_\_\_  
Name, Title & Address

**FORM OF PERFORMANCE SECURITY  
(Bank Guarantee)**

Guarantee No. \_\_\_\_\_  
Executed on \_\_\_\_\_  
Expiry date \_\_\_\_\_

[Letter by the Guarantor to the Procuring Agency]

Name of Guarantor (Bank) with address: \_\_\_\_\_  
(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: \_\_\_\_\_

Penal Sum of Security (express in words and figures) \_\_\_\_\_

Letter of Acceptance No. \_\_\_\_\_ Dated \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the bidding documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the \_\_\_\_\_ (hereinafter called the procuring agency) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said procuring agency, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the procuring agency's above said Letter of Acceptance for \_\_\_\_\_ (Name of Contract) for the \_\_\_\_\_ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the procuring agency, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, \_\_\_\_\_ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the procuring agency without delay upon the procuring agency's first written demand without

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Construction of Judo Academy at SAU Tandojam (Prime Minister Youth Program)*

cavil or arguments and without requiring the procuring agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the procuring agency's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Procuring Agency's designated Bank & Account Number.

PROVIDED ALSO THAT the procuring agency shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the procuring agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

	_____ Guarantor (Bank)
Witness:	
1. _____	Signature _____
	Name _____
_____ Corporate Secretary (Seal)	Title _____
2. _____	
_____ Name, Title & Address	_____ Corporate Guarantor (Seal)

**FORM OF CONTRACT AGREEMENT**

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the \_\_\_\_\_ day of \_\_\_\_\_ (month) 20\_\_\_\_ between \_\_\_\_\_ (hereafter called the "Procuring Agency") of the one part and \_\_\_\_\_ (hereafter called the "Contractor") of the other part.

WHEREAS the Procuring Agency is desirous that certain works, viz \_\_\_\_\_ should be executed by the Contractor and has accepted a bid by the Contractor for the execution and completion of such works and the remedying of any defects therein.

NOW this Agreement witnesseth-- as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
  - (a) The Contract Agreement;
  - (b) The Letter of Acceptance;
  - (c) The completed Form of Bid;
  - (d) Special Stipulations (Appendix-A to Bid);
  - (e) The Special Conditions of Contract – Part II;
  - (f) The General Conditions – Part I;
  - (g) The priced Bill of Quantities (Appendix-D to Bid);
  - (h) The completed Appendices to Bid (B, C, E to L);
  - (i) The Drawings;
  - (j) The Specifications.
  - (k) \_\_\_\_\_ (any other)
3. In consideration of the payments to be made by the procuring agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the procuring agency to execute and complete the works and remedy defects therein in conformity and in all respects with the provisions of the contract.
4. Procuring agency hereby covenants to pay the contractor, in consideration of the execution and completion of the works as per provisions of the contract, the contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

Signature of Procuring Agency

\_\_\_\_\_  
(Seal)

\_\_\_\_\_  
(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

\_\_\_\_\_  
(Name, Title and Address)

\_\_\_\_\_  
(Name, Title and Address)

## **Notes on the Conditions of Contract**

The Conditions of Contract comprise two parts:

- (a) Part I - General Conditions of Contract**
- (b) Part II - Special Conditions of Contract**

Over the years, a number of “model” General Conditions of Contract have evolved. The one used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation International des Ingenieurs-Conseils, or FIDIC), and is commonly known as the FIDIC Conditions of Contract. (The used version is the harmonized Edition March 2006).

The FIDIC Conditions of Contract have been prepared for an ad measurement (unit price or unit rate) type of contract, and cannot be used without major modifications for other types of contract, such as lump sum, turnkey, or target cost contracts.

The standard text of the General Conditions of Contract chosen must be retained intact to facilitate its reading and interpretation by bidders and its review by the procuring agency. Any amendments and additions to the General Conditions, specific to the contract in hand, should be introduced in the Particular Conditions of Contract.

The use of standard conditions of contract for all civil works will ensure comprehensiveness of coverage, better balance of rights or obligations between procuring agency and Contractor, general acceptability of its provisions, and savings in time and cost for bid preparation and review, leading to more economic prices.

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“Copies of the FIDIC Conditions of Contract can be obtained  
from: To request such permission please contact:  
FIDIC CASE POSTALE, CH-1215 Switzerland;  
Tel. +41 22 799 49 00;  
Fax; +41 22 799 49 01  
E-mail: fidic@fidic.org.



## Conditions of Contract for CONSTRUCTION

FOR BUILDING AND ENGINEERING  
WORKS DESIGNED BY THE EMPLOYER

Multilateral Development Bank Harmonised Edition  
March 2006

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FEDERATION INTERNATIONALE DES INGENIEURS-CONSEILS  
INTERNATIONAL FEDERATION OF CONSULTING ENGINEERS  
INTERNATIONALE VEREINIGUNG BERATENDER INGENIEURE  
FEDERACION INTERNACIONAL DE INGENIEROS CONSULTORES



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## PART II - PARTICULAR CONDITIONS OF CONTRACT

### 1.1 **Definitions**

The entire text is deleted and substituted with the following:

In the Contract (as hereinafter defined) the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires:

- (a) (i) *"Procuring Agency/Employer" is Sindh Agriculture University (SAU) Tandojam*
- (ii) *"Engineer" means the person appointed by Procuring Agency to act as Engineer for the purpose of contract and named as Project Director SAU Tandojam.*
- (iii) *Engineer's Representative means consultant M/s. Shahzad Associates, 2<sup>nd</sup> Floor, Farzana Building, Shaheed-e-Millat Road, Karachi.*
- a-(iv) "Bidder or Tenderer" means any person, company corporation, firm or joint venture submitting a Bid or Tender.
- b-(v) "Tender" means the Contractor's priced offer to the Employer for the execution and completion of the Works and the remedying of any defects therein in accordance with the provisions of the Contract, as accepted by the Letter of Acceptance. The word "Tender" is synonymous with "Bid" and the word "Tender Documents" with "Bidding Documents".
- (ix) "Programme" means the programme to be submitted by the Contractor in accordance with Sub-Clause 14.1 and any approved revisions thereto.
- (e)(i) The text is deleted and substituted with the following:  
"Contract Price" means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works subject to such additions thereto or deductions therefrom as may be made and remedying of any defects therein in accordance with the provisions of the Contract.

### 2.1 **Engineer's Duties and Authority**

Any action under Clause 44 "Extension of Time for Completion".

- (i) Any action under Clause 47 "Liquidated Damages for Delay" or Issuance of "Taking Over Certificate" under Clause 48.
- (ii) Issuing a Variation Order under Clause 51, except:
  - (a). in an emergency\* situation, as stated herebelow, or
  - (b). if such variation would increase the Contract Price by less than the amount stated in the Appendix-A to Bid.
- (iii) Fixing rates or prices under Clause 52.
- (iv) Extra payment as a result of Contractor's claims under Clause 53.
- (v) Release of Retention Money to the Contractor under Sub-Clause 60.3 "Payment of Retention Money".

- (vi) Issuance of "Final Payment Certificate" under Sub-Clause 60.8.
- (vii) Issuance of "Defect liability Certificate" under Sub-Clause 62.1.

\* (If in the opinion of the Engineer an emergency occurs affecting the safety of life or of the Works or of adjoining property, the Engineer may, without relieving the Contractor of any of his duties and responsibilities under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 52 and shall notify the Contractor accordingly, with a copy to the Employer.)

Provided further that any requisite approval shall be deemed to have been given by the Employer for any such authority exercised by the Engineer.

## 2.2 **Engineer's Representative**

The entire text is deleted and substituted with the following:

The Engineer's Representative shall be appointed by and be responsible to the Engineer and shall carry out such duties and exercise such authority as may be delegated to him by the Engineer under Sub-Clause 2.3.

The Employer shall ensure that the Engineer's Representative is a Professional Engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976)

The following Sub-Clauses 2.7 and 2.8 are added:

## 2.7 **Engineer Not Liable**

Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of materials, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer's authority to act nor any decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representatives or employees or any other person performing any portion of the Works.

## 2.8 **Replacement of the Engineer's representative**

"If the Employer intends to replace the Engineer, the Employer shall, not less than 14 days before the intended date of replacement, give notice to the Contractor, of the name, address and relevant experience of the intended replacement Engineer. The Employer shall not replace the Engineer with a person against whom the Contractor raises reasonable objection by notice to the Employer, with supporting particulars."

## 5.1 **Language(s) and Law**

- (a) The Contract Documents shall be drawn up in the English language.
- (b) The Contract shall be subject to the Laws of Islamic Republic of Pakistan.

## 5.2 **Priority of Contract Documents**

The entire text is deleted and substituted with the following:



The several documents forming the Contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the Engineer who shall thereupon issue to the contractor instructions thereon and in such event, unless otherwise provided in the Contract, the priority of the documents forming the Contract shall be as follows;

- (1) The Contract Agreement
- (2) The Letter of Acceptance;
- (3) The completed Form of Bid;
- (4) Special Stipulations (Appendix-A to Bid);
- (5) Special Provisions
- (6) The Particular Conditions of Contract – Part II;
- (7) The General Conditions – Part I;
- (8) The priced Bill of Quantities (Appendix-D to Bid);
- (9) The completed Appendices to Bid (B, C, E to K);
- (10) The Drawings;
- (11) The Specifications; and
- (12) Any other documents forming part of the Contract.

In case of discrepancies between drawings, those of larger scale shall govern unless they are superseded by a drawing of later date regardless of scale. All Drawings and Specifications shall be interpreted in conformity with the Contract and these Conditions. Addendum, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

The following Sub-Clauses 6.6, 6.7 and 6.8 are added:

#### **6.6 Shop Drawings**

The Consultant shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and that the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

#### **6.7 As-Built Drawings**

At the completion of the Works under the Contract, the consultant shall furnish to the Engineer 6 copies and one reproducible of all drawings amended to conform with the Works as built. The price of such Drawings shall be deemed to be included in the Contract Price.

#### **9.1 Contract Agreement**

Delete the entire text and substitute:

The Contractor shall enter into and execute the Contract Agreement, to be prepared and completed at his own cost, in the form annexed to these Conditions with such modification as may be necessary. The cost of stamp duty will also borne by the Contractor. The Contractor shall provide ten copies of signed Contract Documents to the Employer in proper book form for record. All costs for preparing and providing the copies of the Contract Documents shall be borne by the Contractor.

#### 10.1 **Performance Security**

The Entire text is deleted and substituted with the following:

The Contractor shall provide Performance Security to the Employer. The said Security shall be furnished or caused to be furnished by the Contractor within 28 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 5% of the Contract Price stated in the Letter of Acceptance. Such Security shall be provided by an insurance company having atleast AA rating from PACRA / JCR i.e. (NIC, NJI, EFU & Adamjee) only in favour of Employer, valid until one month after completion of the Defect Liability Period in accordance with the Contract. The cost of complying with the requirements of this Sub-Clause shall be borne by the Contractor.

#### 10.2 **Period of Validity of Performance Security**

Delete the entire text and substitute:

The performance security shall be valid until one month after the completion of the Defect Liability Period in accordance with the Contract. No claim shall be made against such security after the issue of the Defects Liability Certificate in accordance with Sub-Clause 62.1 and such security shall be returned to the Contractor within 14 days of the issue of the said Defects Liability Certificate.

The following Sub-Clause 10.4 is added:

#### 10.4 **Performance Security Binding on Variations and Changes**

The Performance Security shall be binding irrespective of changes in the quantities or variations in the Works or extensions in Time for Completion of the Works which are granted or agreed upon under the provisions of the Contract.

#### 11.1 **Inspection of Site**

The entire text is deleted and substituted with the following;

The Employer shall have made available to the Contractor, before the submission by the Contractor of the Tender, such data on hydrological and sub-surface conditions as have been obtained by or on behalf of the Employer from investigations undertaken relevant to the Works but the Contractor shall be responsible for his own interpretation thereof.

The Contractor shall be deemed to have inspected and examined the Site and its surroundings and information available in connection therewith and to have satisfied himself (so far as is practicable, having regard to considerations of cost and time) before submitting his Tender, as to:

- (a) the form and nature thereof, including the sub-surface conditions,
- (b) the hydrological and climatic conditions,
- © the extent and nature of work and materials necessary for the execution and completion of the Works and the remedying of any defects therein, and
- (c) the means of access to the Site and the accommodation he may require, and, in general, shall be deemed to have obtained all necessary information, subject as above mentioned, as to risks, contingencies and all other circumstances which may influence or affect his Tender.

The Contractor shall be deemed to have based his Tender on the data made available by the Employer and on his own inspection and examination, all as aforementioned.

If any data is provided by the Employer, the Contractor is solely responsible for ascertaining the correctness of such data and the Employer shall not be liable in this behalf and no claim whatsoever in nature shall be entertained by the Engineer.

**14.1 Programme to be Submitted**

The programme shall be submitted within 14 days from the date of receipt of letter of acceptance which shall be in the form of a Bar Chart identifying the critical activities.

**78.1 Cash Flow Estimate to be Submitted**

The Contractor shall, within 21 days after the date of the Letter of Acceptance, provide to the Engineer for his information a detailed cash flow estimate, in quarterly periods, of all payments to which the Contractor will be entitled under the Contract and the Contractor shall subsequently supply revised cash flow estimates at quarterly intervals, if required to do so by the Engineer.

The following Sub-Clause 14.5 is added:

**14.5 Detailed Programme and Monthly Progress Report**

- a) For purposes of Sub-Clause 14.1, the Contractor shall submit to the Engineer detailed programme for the following:
  - (1) Execution of Works;
  - (2) Labour Employment;
  - (3) Local Material Procurement;
  - (4) Material Imports, if any; and
  - (5) Other details as required by the Engineer.
- (b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8<sup>th</sup> day of the following month, 5 copies each of Monthly Progress Reports covering:
  - (1) A Construction Schedule indicating the monthly progress in percentage;
  - (2) Description of all work carried out since the last report;
  - (3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
  - (4) Monthly summary of daily job record;
  - (5) Photographs to illustrate progress ;and
  - (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same.
- © During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.

**15.2 Language Ability of Contractor's Representative**

The Contractor's 59ctroy59zed representative shall be fluent in the English language. Alternately an interpreter with ability of English language shall be provided by the Contractor on full time basis.

### 15.3 **Contractor's Representative**

The Contractor's authorised representative and his other professional engineers working at Site shall register themselves with the Pakistan Engineering Council.

The Contractor's authorized representative at Site shall be authorized to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.

The following Sub-Clauses 16.3 and 16.4 are added:

### 16.3 **Language Ability of Superintending Staff of Contractor**

A reasonable proportion of the Contractor's superintending staff shall have a working knowledge of the English language. If the Contractor's superintending staffs are not fluent in English language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

### 16.4 **Employment of Local Personnel**

The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour from sources within Pakistan.

The following sub clauses are added 19.3 and 19.4 are added.

### 19.3 **Safety Precautions**

In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorise or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose.

The Contractor shall make, maintain and submit reports to the Engineer concerning safety, health and welfare of persons and damage to property, as the Engineer may from time to time prescribe.

### 78.1 **Lighting Work at Night**

In the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night-work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer's Representative.

### 78.1 **Employer's Risks**

The Employer's risks are:

Delete the text and substitute with the following:

- (a) insofar as they directly affect the execution of the Works in Pakistan:

- (i) war and hostilities (whether war be declared or not), invasion, act of foreign enemies,
- (ii) rebellion, revolution, insurrection, or military or usurped power, or civil war,
- (78) ionizing radiations, or contamination by radioactivity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof,
- (iv) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds,
- (v) riot, commotion or disorder, unless solely restricted to the employees of the Contractor or of his Subcontractors and arising from the conduct of the Works. For the avoidance of the doubt, it is clarified that riot, commotion or disorder constituting the Employer's Risks shall not include any riot, commotion or disorder in any part of the country where the works are located or to be performed which give rise to generalized security, safety or other concern to the Contractor or his Subcontractor or to their employees.
- (b) loss or damage due to the use or occupation by the Employer of any Section or part of the Permanent Works, except as may be provided for in the Contract;
- © loss or damage to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible; and
- (d) any operation of the forces of nature (insofar as it occurs on the Site) which an experienced contractor:
  - (i) could not have reasonably foreseen, or
  - (ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures:
    - (a) prevent loss or damage to physical property from occurring by taking appropriate measures, or
    - (b) insure against.

#### 21.4 Exclusions

The text is deleted and substituted with the following:

There shall be no obligation for the insurances in Sub-Clause 21.1 to include loss or damage caused by the risks listed under Sub-Clause 20.4 paras (a) (i) to (iv).

#### 25.1 Evidence and Terms of Insurances

Delete the entire text and substitute as follows:

The Contractor shall provide evidence to the Employer as soon as practicable after the respective insurances have been taken out but in any case prior to the start of work at the Site that the insurances required under the Contract have been effected and shall, within 30 days of the Commencement Date, provide the insurance policies to the Employer. When providing such evidence and such policies to the Employer, the Contractor shall notify the Engineer of so doing. Such insurance policies shall be consistent with the general terms agreed prior to the issue of the Letter of Acceptance. The Contractor shall effect all insurances for which he is responsible with insurers and in terms approved by the Employer.

### 25.5 **Insurance Company**

The Contractor shall be obliged to place all insurances relating to the Contract (including, but not limited to, the insurances referred to in Clauses 21, 23 and 24) with either National Insurance Company of Pakistan or any other insurance company operating in Pakistan and acceptable to the Employer.

Costs of such insurances shall be borne by the Contractor.

The following Sub-Clause 31.3 is added:

### 31.3 **Co-operation with other Contractors**

During the execution of the Works, the Contractor shall co-operate fully with other contractors working for the Employer at and in the vicinity of the Site and also shall provide adequate precautionary facilities not to make himself a nuisance to local residents and other contractors.

The following Sub-Clause 34.2 and 34.12 are added:

### 34.2 **Rates of Wages and Conditions of Labour**

The Contractor shall pay rates of wages and observe conditions of labour not less favourable than those established for the trade or industry where the work is carried out. In the absence of any rates of wages or conditions of labour so established, the Contractor shall pay rates of wages and observe conditions of labour which are not less favourable than the general level of wages and conditions observed by other employers whose general circumstances in the trade or in industry in which the Contractor is engaged are similar.

### 78.1 **Employment of Persons in the Service of Others**

The Contractor shall not recruit his staff and labour from amongst the persons in the services of the Employer or the Engineer; except with the prior written consent of the Employer or the Engineer, as the case may be.

### 78.1 **Housing for Labour**

Save insofar as the Contract otherwise provides, the Contractor shall provide and maintain such housing accommodation and amenities as he may consider necessary for all his supervisory staff and labour, employed for the purposes or in connection with the contract including all fencing, electricity supply, sanitation, cookhouses, fire prevention, water supply and other requirements in connection with such housing accommodation or amenities. On completion of the contract, the facilities shall be handed over to the Employer or if the Employer so desires, the temporary camps or housing provided by the Contractor shall be removed and the site reinstated to its original condition, all to the approval of the Engineer.

### 34.5 **Health and Safety**

Due precautions shall be taken by the Contractor, and at his own cost, to ensure the safety of his staff and labour at all times throughout the period of the Contract. The Contractor shall further ensure that suitable arrangements are made for the prevention of epidemics and for all necessary welfare and hygiene requirements.

### 34.6 **Epidemics**

In the event of any outbreak of illness of an epidemics nature, the Contractor shall complete comply with and carry out such regulations, orders and requirements as may be made by the Government, or the local medical or sanitary authorities, for purpose of dealing with and overcoming the same.

**78.1 Supply of Water**

The Contractor shall, so far as is reasonably practicable, having regard to local conditions, provide on the site, to the satisfaction of the Engineer or his representative, adequate supply of drinking and other water for the use of his staff and labour.

**78.1 Alcoholic Liquor or Drugs**

The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulations or Orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his Subcontractors, agents, staff or labour.

**34.9 Arms and Ammunition**

The Contractor shall not give, or otherwise dispose of to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid. Except to those who are employed or hired for security of the work, plant and equipment, material, Camp Sites, Offices, Housing including Employer's / Engineer's facilities, etc.

**34.10 Festivals and Religious Customs**

The Contractor shall in all dealings with his staff and labour have due regard to all recognised festivals, days of rest and religious and other customs.

**34.11 Disorderly Conduct**

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst staff and labour and for the preservation of peace and protection of persons and property in the neighbourhood of the Works against the same.

**34.12 Compliance by Subcontractor**

The Contractor shall be responsible for compliance by his Subcontractor of the provisions of this Clause.

The following Sub-Clauses 35.2 and 35.3 are added:

**35.2 Records of Safety and Health**

The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.

**35.3 Reporting of Accidents**

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.

**36.5 Engineer's Determination where Tests not Provided for**

Deleted the entire text of this Sub-Clause and substitute as follows:

Where, pursuant to Sub-Clause 36.4, this Sub-Clause applies the Engineer Shall, after due consultation with the Employer and the Contractor, determine:

- (a) any extension of time of which the Contractor is entitled under Clause 44, and
- (b) the amount of such costs, which shall be added to the Contract Price and shall notify the Contractor accordingly, with a copy to the Employer.

The following Sub-Clause 36.6 is added:

**36.6 Use of Pakistani Materials and Services**

The Contractor shall , so far as may be consistent with the Contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

**41.1 Commencement of Works**

The text is deleted and substituted with the following:

The Contractor shall commence the Works on site within the period named in appendix “A” Bid from the date of receipt by him from Engineer of a written notice to commence. Thereafter, the Contractor shall proceed with the Works with due expedition and without delay.

**47.3 Bonus for Early Completion of Works**

This clause is deleted in its entirety

**48.2 Taking Over of Sections or Parts**

Delete the entire text of this Sub – Clause and substitute as follow:

Similarly, in accordance with the procedure set out in Sub-Clause 48.1, the Contractor may request and the Engineer after obtaining approval of the Employer shall issue a Taking-Over Certificate in respect of:

- (a) any Section in respect of which a separate Time for Completion is provided in the Appendix “A” to Bid. Special Stipulation”
- (b) any substantial part of the Permanent Works which has been both completed to the satisfaction of the Engineer and, otherwise than as provided for in the Contract, occupied or used by the Employer, or
- © any part of the Permanent Works which the Employer has elected to occupy or use prior to completion (where such prior occupation or use is not provided for in the Contract or has not been agreed by the Contractor as a temporary measure).

**51.2 Instructions for Variations**

At the end of the first sentence, after the word ‘Engineer’ the words ‘in writing’ are added.

**52.1 Valuation of Variations**

Delete the entire text of this Sub – Clause and substitute as follow:



In the tenth line, after the words “Engineer shall” the following is added “within a period not exceeding one eighth of the completion time subject to a minimum of 56 days from the date of disagreement whichever is later”.

**53.4 Failure to Comply**

This Sub-Clause is deleted in its entirety.

**54.5 Conditions of Hire of Contractor’s Equipment**

Delete the entire text of this Sub – Clause and substitute as follow:

With a view to securing, in the event of termination under Clause 63, the continued availability, for the purpose of executing the Works, of any hired Contractor’s Equipment, the Contractor shall not bring on to the Site any hired Contractor’s Equipment unless there is an agreement for hire thereof (which agreement shall be deemed not to include an agreement for hire purchase) which contains a provision that the owner thereof will, on request in writing made by the Employer within 7 days after the date on which any termination has become effective, and on the Employer undertaking to pay all hire charges in respect thereof from such date, hire such Contractor’s Equipment to the Employer on the same terms in all respect as the same was hired to the Contractor save that the Employer shall be entitled to permit the use thereof by any other contractor employed by him for the purpose of execution and completing the Works and remedying any defects therein, under the terms of the said Clause 63.

The Contractor shall, upon request by the Engineer at any time in relation to any item of the hired Contractor’s Equipment, forthwith notify the Engineer in writing the name and addresses of owner of the Equipment and shall satisfy that the agreement for the hire thereof contains a provision in accordance with the requirements said forth above.

The following Sub-Clauses 59.4 & 59.5 are added:

**59.4 Payments to Nominated Subcontractors**

The Contractor shall pay to the nominated Subcontractor the amounts which the Engineer certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with Clause 58 [Provisional Sums], except as stated in Sub-Clause 59.5 [Certification of Payments].

**59.5 Certification of Payments & Nominated Subcontractors**

Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Engineer may request the Contractor to supply reasonable evidence that the nominated Subcontractor has received all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:

- a) submits reasonable evidence to the Engineer, or
- b)
  - i) satisfies the Engineer in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and
  - ii) submits to the Engineer reasonable evidence that the nominated Subcontractor has been notified of the Contractor’s entitlement, then the Employer may (at his sole discretion) pay direct to the nominated

Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Employer, the amount which the nominated Subcontractor was directly paid by the Employer.

#### 60.1 **Monthly Statements**

Delete the entire text of this Sub – Clause and substitute as follow:

The Contractor shall on the basis of the joint measurements of work done under clause 56.1, submit to the Engineer after the end of each month six copies, each signed by the Contractor's representative approved by the Engineer in accordance with the Sub-Clause 15.1, of a statement, in such form as the Engineer may from time to time prescribe, showing the amounts to which the Contractor considers himself to be entitled up to the end of the month in respect of:

- (a) the value of the Permanent Works executed,
- (b) any other items in the Bill of Quantities including those for Contractor's Equipment, Temporary Works, dayworks and the like,
- © the percentage of the invoice value of listed materials, all as stated in Sub-Clause 60.11(a)(6) hereof, and Plant delivered by the Contractor on the Site for incorporation in the Permanent Works but not incorporated in such Works,
- (d) any other sum to which Contractor may be entitled under the Contract or otherwise:

#### 60.10 **Time for Payment**

The text is deleted and substitute with the follows:

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other term of the Contract, shall, subject to Clause 47, be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Employer and Contractor, or, in the case of the Final Certificate referred to in Sub-Clause 60.8, within 60 days, after such Final Payment Certificate has been jointly verified by Employer or Contractor, Provided that the Interim Payment shall be caused in 42 days and Final Payment in 60 days in case of foreign funded project. In the event of the failure of the Employer to make payment within the times stated, the Employer shall pay to the Contractor compensation at the 28 days rate of KIBOR+2% per annum for local currency and LIBOR+1% for foreign currency, upon all sums unpaid from the date by which the same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement under Clause 69.

All payments to the Contractor shall be made in Pakistani Rupees only under the Contract and no payment in foreign currency is admissible.

The following Sub-Clause 60.11 is added:

#### 60.11 **Secured Advance on Materials**

This clause is deleted in its entirety

60.12 **Financial Assistance to Contractor** (subject to prior approval of Employer Consultant and as per special conditions of Contract).

Financial assistance shall be made available to the Contractor by the Employer by adopting the following alternative.

- (a) An interest-free Mobilization Advance up to 15% of the Contract Price stated in the Letter of Acceptance shall be paid by the Employer to the Contractor in two equal parts upon submission by the Contractor of a Mobilization Advance Guarantee/Bond for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan or insurance company as approved by the Consultant / SAU Tandojam of required rating.
- (78) First part within 14 days after signing of the Contract Agreement or date of receipt of Engineer's Notice to Commence, whichever is earlier; and
  - (2) Second part within 42 days from the date of payment of the first part, subject to the satisfaction of the Engineer as to the state of mobilization of the Contractor.
- (b). This Advance shall be recovered in equal monthly instalments; first instalment at the expiry of second month after the date of payment of first part of Advance and the last instalment one months before the date of completion of the Works as per Clause 43 hereof.

63.1 **Default of Contractor**

Delete the entire text of this Sub-Clause and substitute as follows:

If the Contractor is deemed by law unable to pay his debts as they fall due, or enters into voluntary or involuntary bankruptcy, liquidation or dissolution (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), or becomes insolvent, or makes an arrangement with, or assignment in favour of, his creditors, or agrees to carry out the Contract under a committee of inspection of his creditors, or if a receiver, administrator, trustee or liquidator is appointed over any substantial part of his assets, or if, under any law or regulation relating to reorganization, arrangement or readjustment of debts, proceedings are commenced against the Contractor or resolutions passed in connection with dissolution or liquidation or if any steps are taken to enforce any security interest over a substantial part of the assets of the Contractor, or if any act is done or event occurs with respect to the Contractor or his assets which, under any applicable law has a substantially similar effect to any of the foregoing acts or events, or if the Contractor has contravened Sub-Clause 3.1, or has an execution levied on his goods, or Contract, if the Engineer certifies to the Employer, with a copy to the Contractor, that, in his opinion, the Contractor:

- (a) has repudiated the Contract, or
- (b) without reasonable excuse has failed
  - (i) to commence the Works in accordance with Sub-Clause 41.1,
  - (ii) to proceed with the Works, or any Section thereof, within 28 days after receiving notice pursuant to Sub-Clause 46.1,
- © has failed to comply with a notice issued pursuant to Sub-Clause 37.4 or an instruction issued pursuant to Sub-Clause 39.1 within 28 days after having received it
- (d) despite previous warning from the Engineer, in writing, is otherwise persistently or flagrantly neglecting to comply with any of his obligations under the Contract, or
- (78) has contravened Sub-Clause 4.1,

then the Employer may, after giving 14 days' notice to the Contractor, enter upon the Site and the Works and terminate the employment of the Contractor without thereby releasing the Contractor from any of his obligations or liabilities under the Contract, or affecting the rights and authorities conferred on the Employer or the Engineer by the Contract, and may himself complete the Works or may employ any other contractor to complete the Works. The Employer or such other contractor may use for such completion so much of the Contractor's Equipment, Temporary Works and materials as he or they may think proper.

Provided further that in addition to the action taking by the Employer against the Contractor this Clause, the Employer may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the construction and operation of Engineering Works Bye-Laws 1987, as amended from time to time.

### **65.2 Special Risks**

The text is deleted and substituted with the following:

The special Risks are the risks defined under Sub-Clause 20.4 Sub Paragraphs (a) (i) to (a) (v).

### **67.3 Arbitration**

Delete the entire text of this Sub-Clause and substitute as follows:

Any dispute in respect of which:

(78) the decision, if any, of the Engineer has not become final and binding pursuant to Sub-Clause 67.1, and

(78) amicable settlement has not been reached within the period stated in Sub-Clause 67.2,

shall be finally settled under the provision of the arbitration at, 1940 as amended or any statutory modifications or re-enactment, thereof for the time being in force. The said arbitrator/s shall have full power to open up, review and revise any decisions, opinion, instructions, determination, certificate or valuation of the Engineer related to the dispute.

Neither party shall be limited in the proceedings before such arbitrators to the evidence nor arguments put before the Engineer for the purpose of obtaining his said decisions pursuant to Sub-Clause 67.1. No such decision shall disqualify the Engineer from being called as a witness and giving evidence before the arbitrator/s on any matter whatsoever relevant to the dispute.

Arbitration may be commenced prior to or after completion of the Works, provided that the obligations of the Employer, the Engineer and the Contractor shall not be altered by reason of the arbitration being conducted during the progress of the Works.

The Place of arbitration shall be Karachi, Pakistan.

### **68.1 Notice to Contractor**

Delete the entire text of this Sub-Clause and substitute as follows:

All certificates, notices or instructions to be given to the Contractor by the Employer or the Engineer under the terms of the Contract shall be sent by post, cable, telex or facsimile transmission to or left at the Contractor's principal place of business or such other address as the Contractor shall nominate for that purpose.

For the purposes of this Sub-Clause, the Contractor shall, immediately after receipt of Letter of Acceptance, intimate in writing to the Employer and the Engineer by registered post, the address of his principal place of business or any change in such address during the period of the Contract.

**68.2 Notice to Engineer and Engineer's Representative**

*Delete the entire text of this Sub-Clause and substitute as follows:*

*Any notice to be given to the Employer or to the Engineer's representative under the terms of the Contract shall be sent by post, cable, telex or facsimile transmission to or left at the respective addresses nominated below.*

*The Engineer:*

***Project Director SAU Tandojam***

*Sindh Agriculture University, Tandojam, Postal Code: 70060*

*Phone No: (+9222) 3405140*

*The Engineer's Representative:*

***Consultant M/s Shahzad Associates***

*Consulting Architects, Engineers & Planners*

*2<sup>nd</sup> Floor, Farzana Building, Shaheed-e-Millat Road, Karachi.*

*Tel: 021-3438-4591, 3438-8857,*

*Fax: 3453-0754*

**69.4 Contractor's Entitlement to Suspend Work**

Refer to Part-I: General Conditions of Contract

**69.5 Resumption of Work**

Refer to Part-I: General Conditions of Contract

**70.2 Subsequent Legislation**

Refer to Part-I: General Conditions of Contract

**71.1 Currency Restrictions**

Refer to Part-I: General Conditions of Contract

**72.1 Rates of Exchange**

Refer to Part-I: General Conditions of Contract

**72.2 Currency Proportions**

Refer to Part-I: General Conditions of Contract

**72.3 Currencies of Payment for Provisional Sums**

Delete the sub-clause in its entirety

The following Sub-Clauses 73.1, 73.2, 73.3, 74.1, 75.1, 76.1, and 77.1 are added.

**73.1(a) Payment of Income Tax**

The Contractor, Subcontractor and their employees shall be responsible for payment of all their income tax, super tax and other taxes applicable under the laws of Pakistan, as amended from time to time, on income, or any loss of income, arising out of the Contract and the rates and prices stated in the Contract shall be deemed to cover all such taxes.

The Employer shall apply source deduction of Taxes (with holding) at the applicable rate during currency of the contract for all the amounts payable in terms of the Contract as per Income Tax Laws of Pakistan under the above clause.

**73.1(b) Payment of Local Tax**

The prices bid by the Contractor shall include all customs duties, import duties, sales tax, octroy and other taxes that may be levied in accordance with the laws and regulations in force on the date 28 days prior to the latest date for submission of bids in Pakistan on the Contractor's equipment, plant, materials and supplies (permanent, temporary and consumable) acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the Contract shall relieve the Contractor from his responsibility to pay any tax that may be levied in Pakistan in relation to execution of the Contract.

**73.1© Foreign Taxation**

The Prices bid by the Contractor shall include all taxes, duties and other charges imposed outside the Employer's country on the production, manufacture, sale and transport of the Contractor's Equipment, Plant, Materials and supplies to be used on or furnished under the Contract, and on the services performed under the Contract.

**73.2 Cost Inclusive of Duties and Taxes**

The rates and prices stated in the Priced Bill of Quantities shall be deemed to include every element of duty or tax leviable on or in relation to the production, import, purchase, sale, delivery and transportation of materials and to the bringing thereof to the Site and no such duty or tax shall be separately reimbursable.

**78.1 Custom Clearance**

It is the responsibility of the Contractor to make all arrangements and payments necessary for obtaining customs clearances of all materials, goods and equipment. The Employer shall not assume any responsibility in respect of the aforementioned obligations of the Contractor, except as otherwise provided in the Contract.

**74.1 Integrity Pact**

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the Employer shall be entitled to:

- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;

- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under Sub-Para (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clauses 63.1 to 63.4 and the payment under Sub-Clause 63.3 shall be made after having deducted the amounts due to the Employer under Sub-Para (a) and (c) of this Sub-Clause.

**75.1 Termination of Contract for Employer's Convenience**

The Employer shall be entitled to terminate the Contract at any time for the Employer's convenience after giving 56 days prior notice to the Contractor, with a copy to the Engineer. In the event of such termination, the Contractor:

- (a) shall proceed as provided in Sub-Clause 65.7 hereof; and
- (b) shall be paid by the Employer as provided in Sub-Clause 65.8 hereof.

**76.1 Liability of Contractor**

The Contractor or his Subcontractors or assigns shall follow strictly, all relevant labour laws including the Workmen's Compensation Act and the Employer shall be fully indemnified for all claims, damages etc. arising out of any dispute between the Contractor, his Subcontractors or assigns and the labour employed by them.

**77.1 Joint and Several Liability**

If the Contractor is a joint venture of two or more persons, all such persons shall be jointly and severally bound to the Employer for the fulfilment of the terms of the Contract and shall designate one of such persons to act as leader with authority to bind the joint venture. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.

**78.1 Details to be Confidential**

The Contractor shall treat the details of the Contract as private and confidential, save in so far as may be necessary for the purposes thereof, and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere without the prior consent in writing of the Employer or the Engineer. If any dispute arises as to the necessity of any publication or disclosure for the purpose of the Contract, the same shall be referred to the decision of the Engineer whose award shall be final.

## **SPECIAL CONDITIONS OF CONTRACT**

### **1. Mobilization Advance**

There will be no any mobilization advance will be allowed to contractor.

### **2. Shop Drawings**

Where nature of work of Contract makes it necessary and where specifically required by these specifications and in particulars for doors, windows, ceilings, joinery, all finishes, plumbing, electrical, mechanical, roof drainage, gas, compressed air, A/C pipes and fittings and their installation etc. Contractor shall cause his materials vendors, fabricators or sub-contractors to submit scales and full size shop drawings of his work for approval of Consultant.

Shop Drawings must be complete in every detail including provisions required of various trades, connections with other work, all cutting, fitting and drilling required and any / all other necessary information in accordance with usual and customary trade practice as particularly required to be submitted to Consultants for approval.

It is to be understood that prior to manufacture, fabrication or installation of work under contract is carried forward, shop drawings shall be prepared and three copies of each drawing shall be submitted to the Consultants who will within two to three weeks after receipt thereof send one copy to the Contractor marked (I) "Approved", (II) "Approved Except as Noted" or (III) "Returned for Correction". The notations approved and Approved Except as Noted shall authorized the Contractor to proceed with the fabrication of materials and equipment covered by such drawings subject to the correction, if any indicated thereon. When prints of drawings have been returned for correction the Contractor shall make the necessary revision on the drawings and shall re-submit prints for approval in the same manner as per new drawings. Every revision made during the life of the contract shall be shown by number, date and subject in a revision block.

So far as practicable, each drawing shall bear a cross reference note referring to sheet number or numbers of Consultants' drawings showing same work in order to facilitate checking of shop drawings in Consultants' Office and their prompt return to Contractor.

It is Contractor's obligation and responsibility to check and verify all dimensions and be fully responsible for them and for their co-ordination in connection with work. Contractor is responsible for submission of vendor's and / or fabricators shop drawings in proper rotation that is where the shop drawings of trade are dependent upon shop drawing of another trade, proper shop drawing shall be submitted first. No extension of time in respect to final completion date of work will be granted to Contractor because of failure to have any shop drawings in ample time to allow for checking and approval.

All shop drawings submitted by Contractor shall bear stamp of approval of Contractor as evidence that drawings have been checked by Contractor. Any drawings submitted without this stamp of approval will be considered as not having been submitted.

Each consignment of shop drawings submitted for approval must be accompanied by



a letter of transmittal itemizing applicable work and number of the drawings. Each drawing must be marked with name of building and each series numbered consecutively for ready reference.

Contractor shall obtain all points from suppliers / manufacturers and others as necessary for construction purposes and the co-ordination of other trades and distribute them to all parties concerned.

No work being executed in any instance prior to approval by Consultants of any of respective shop drawings.

Consultants' approval, however, shall not relieve Contractor of responsibility for errors, as Consultants' approval of shop drawings is only general and is not intended to serve as a check and does not relieve Contractor from furnishing the materials and performing the work as required by drawings and specification.

### **3. As-Built Drawings**

The Contractor shall at all times keep on the site one copy of all drawings and approved samples together with copies of all public safety codes and relevant standards applicable to the works. All such material shall be made available to the Engineer.

In addition, the Contractor shall, at all times, keep on site a separate set of prints on which shall be noted neatly, accurately and promptly site work progresses all insignificant changes between the work shown on the drawings and that which is actually constructed.

At the completion of works, the Contractor shall at his expense, supply to the Engineer six copies and two CD'S of all drawings amended to comply with work "As Built". The Contractor shall provide in the same format as the original drawings and additional drawing required to record the work.

### **4. Defective Work Noticed After Payment to the Contractor**

If it shall appear to the Consultants that any work has been executed with unsound, imperfect or unskilled workmanship or with materials of any inferior description, or that any materials or articles, provided by the Contractor for the execution of the work are unsound or of a quality inferior to that contract or otherwise not in accordance with the Contract, the Contractor shall on demand in writing from the Consultants specifying the work, materials or articles completed of notwithstanding that the same may have been passed, certified and paid for, forthwith rectify or remove and reconstruct the work so specified in whole or in part, according to the requirement at his own charge and cost. No additional and extra payment will be made for this. In the event of his failing to do so, no payments shall be made for the same till the defect is rectified as per instruction of the Consultants and in cases where rectification or removal of defects or material is not possible and work can be accepted otherwise the rates for such items will be reduced, in such cases the decision of the Consultants will be final and binding on the Contractor.

### **5. Re-Measurement of Work**

After checking of the bill by the Consultant, if at any stage it is observed that the

measurements were wrong or doubtful then the same will be re-measured and the measurement corrected. The Contractor will be informed the date and time for joint measurement. If the Contractor or his representative does not attend, then the measurement taken by the Consultant will be taken as correct and final.

#### **6. Contractors Representative / Agent**

A competent agent registered with PEC as professional Engineer and duly authorized through a power Attorney whose qualifications and appointment shall be approved in writing by the Consultants [which approval may at any time can be withdrawn] is to be constantly on the works and shall give his whole time to the Superintendence of the same. If such approval shall be withdrawn by the Engineer the Contractor shall as soon as is practicable remove the Agent from the site and shall not thereafter employ him again on the site in any capacity and shall promptly replace him by another agent approved by the Consultant. The agent shall receive on behalf of the Contractor directions and instructions from the Consultants or the representative of the Consultants. The approval by the Consultant of the qualifications and appointment of the Contractors' representative for Superintendence of the work shall not relieve the Contractor of any of his duties or responsibilities under the contract.

#### **7. Contractors Representative**

The Engineer shall be at liberty to object to and require the Contractor to remove forthwith from the works any person provided by the Contractor who in the opinion of the Engineer, misconduct himself or is incompetent or negligent in the proper performance of his duties or whose presence on site is otherwise considered by the Engineer to be undesirable and such person shall not be again allowed upon the work. Any person so removed from the work shall be replaced as soon as possible.

#### **8. Approved Manufacturers List**

A list of approved manufacturers is attached. The list is for guidance only. Other alternative manufacturers can also be considered provided they meet the criteria and specifications of the required product. However preference will be given to products obtained from the approved manufacturers.

#### **9. Samples**

Where required in specifications as otherwise required by the Consultant samples of items of fittings, hardware, electrical and mechanical materials etc; to be applied in the work, shall be submitted by Contractor for approval to the Consultant before the Contractor takes the work in hand.

Samples of all materials submitted for approval to the Consultant shall be supplied in triplicate, each sample bearing a neatly typed label bearing the Contractor's name, name of sub-contractor or producer of materials, kind, quality and finish or formula where applicable [as in the case of liquids or paints] intended to be used, in the project with date of submission. Written approval shall be obtained prior to processing or fabrication of any materials for which samples are submitted and all finished work shall conform to the characteristics of approved samples. In no instance shall approval of a sample relieve the Contractor of the responsibility for full compliance with any specification requirement.

The fact that materials have been accepted at shop or wherever the work is in

preparation or progress shall not prevent its rejection under provisions hereof at the work sites either before or after installation. All samples shall be supplied by the Contractor at his own cost, for approval as directed.

Prior to the start of the application of any paint and or / finish treatment otherwise, the Contractor shall apply samples of the required finish treatment to specific representative walls and ceiling surface or other areas or surfaces where indicated by the Engineer representative. The size to be determined by the Engineer's representative / Client.

#### **10. Insurance**

The Contractor shall be responsible for obtaining a Contractors all risks policy from an insurance company acceptable to the Employer against risks to the works and shall make good at his own cost, all losses or damages whether to works themselves or to the lives, persons, whether under the Workmen's Compensation Act of Third Party Risk or property of others from whatsoever cause arising out of or in connection with the works either during the progress of the works or during the period of maintenance provided by this Contract.

The Contractor shall whenever required, produce to the Employer / Consultant the policy or policies of insurance and the receipt for the payment of the current premiums. All works together with material and plant for incorporation therein for which Contractor will be responsible under the terms of Contract. The insurance shall cover the period from the date of commencement until the date the final taking over certificate is signed, and shall also cover during the period of maintenance, loss or damage arising from a cause for which the Contractor is held responsible, whether the cause is detected prior to commencement of the period of maintenance.

#### **11. Accident or Injury to Workmen**

The Employer / Consultant shall not be liable for or in respect of any damages or compensation payable according to the provision of the Workmen's Compensation Act 1923 and any other laws in force in respect or in consequence of any accident, injury or death arising in connection with this contract to any workman or other person in the employment of the Contractor or any sub-contractor and the Contractor shall indemnify the Employer against all such damages, compensation, claims, demands, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.



**SINDH AGRICULTURE UNIVERSITY, TANDOJAM**

## **BILL OF QUANTITIES**

**"PRIME MINISTER YOUTH PROGRAM JUDO ACADEMY &  
ADVANCE RESOURCE CENTER AT SINDH AGRICULTURE  
UNIVERSITY, TANDOJAM"**

## **CONSTRUCTION OF JUDO ACADEMY**



**SHAHZAD  
ASSOCIATES**

**CONSULTING ARCHITECT, ENGINEERS & PLANNERS**  
Tel :34384591, 34388857 Fax 92-21 34530754. Email: shahzadarch@yahoo.com

**CONSTRUCTION OF JUDO ACADEMY  
AT SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**SUMMARY OF COST**

S #	SUB HEAD	TOTAL AMOUNT
	<b>CIVIL WORK</b>	
1	Civil Work (Schedule Work) (Page No. 02 - 09)	Rs=
2	Civil Work (Non-Schedule Work) (Page No. 10 - 18)	Rs=
	<b>(A)</b>	<b>Rs=</b>
	<b>PLUMBING WORK</b>	
3	Plumbing Work (Schedule Work) (Page No. 19 - 21)	Rs=
4	Plumbing Work (Non-Schedule Work) (Page No. 22 - 23)	Rs=
	<b>(B)</b>	<b>Rs=</b>
	<b>ELECTRICAL WORK</b>	
5	Electrical Work (Schedule Work) (Page No. 24 - 24)	Rs=
6	Electrical Work (Non-Schedule Work) (Page No. 25 - 28)	Rs=
	<b>(C)</b>	<b>Rs=</b>
	<b>Total Cost of Judo Academy ( A + B + C )</b>	<b>Rs=</b>

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	<b>EXCAVATION</b> Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrure. In ordinary soil. (Page No. 4, Item No.18-b)	20,000.00	%0Cft	3,176.25	63,525.00
2	<b>IMPORTED EARTH FILL</b>				
a	Filling, watering and ramming earth under floor with new earth (excavated from outside) lead upto one chain and lift upto 5 feet. (Page No.4, Item No.22	70,000.00	%0Cft	3,630.00	254,100.00
b	Add: extra lead 6 mile (referred from carriage of material schedule	70,000.00	%0Cft	774.96	54,247.20
3	<b>SURPLUS EARTH</b> Filling, watering and ramming earth in under floors with surplus earth from foundation etc. lead upto one with surplus earth from foundation etc. (Page No. 3, Item 21)	8,300.00	%0Cft	1,512.50	12,553.75
4	<b>DEWATERING</b> Bailing or pumping out sub soil water during excavation concreting, cost in situ concrete or masonry work in foundation etc. (i) Only three operation to be allowed trench volume under water to be measured first time for excavation, second time for concreting and third time for cost in situ concrete or masonry work in foundation etc. (Schedule of Rate for Public Health Engineering Work (Page No. 75, Item No. 18-i)	300.00	%Cft	543.00	1,629.00
5	<b>CC IN FOUNDATION, SITU WALL, STEPS AND STUB COLUMN</b> Cement concrete plain (ratio1:3:6) including placing compacting, finishing and curing complete (including screining and washing at stone aggregate without shuttering (Page No.15, Item No.5-h)	6,200.00	%Cft	12,595.00	780,890.00

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
6	<b>CC IN FOUNDATION (1:4:8)</b> Cement concrete <b>Ratio. 1:4:8</b> plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering. (Page No.15, Item No.5-i)	2,750.00	%Cft	11,288.75	310,440.63
7	<b>FORM WORK</b> Erection and removal of centering RCC or plain cement concrete works of Partal wood (2nd Class) Vertical (Page No.17, Item No.19-bii)	2,388.00	%Sft	3,588.48	85,692.90
8	<b>TERMITE PROOFING</b> Providing anti-termite treatment by spraying / sprinkling / spreading Neptachler 0.5% Emulsion as an overall pre-construction treatment in slab type construction under the slab and attached perches or entrances etc. Complete in all respect as per directions of the Engineering-inCharge (Page No.108, Item No.92)	20,000.00	Per Sft	9.74	194,800.00
9	<b>RCC WORK</b> Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be separately. This rate also includes all kind of forms molds lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) Page No.16 Item No.6. I & II  R.C. work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.				
a	<b>Columns Footing - Ratio (1:2:4)</b>	6,505.00	P. Cft	337.00	2,192,185.00
b	<b>Plinth Beams - Ratio (1:2:4)</b>	2,300.00	P. Cft	337.00	775,100.00
c	<b>Beam, Lintels Projection, Retaining &amp; Lift Wall Ratio (1:2:4)</b>				
i	Ground Floor	5,300.00	P. Cft	337.00	1,786,100.00
ii	Top Roof	100.00	P. Cft	337.00	33,700.00
d	<b>Slab and Projection Ratio (1:2:4)</b>				
i	Ground Floor	6,710.00	P. Cft	337.00	2,261,270.00
ii	Top Roof	100.00	P. Cft	337.00	33,700.00

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
e	<b>Stair Case Ratio (1:2:4)</b>				
i	Ground Floor	132.00	P. Cft	337.00	44,484.00
ii	First Floor	132.00	P. Cft	337.00	44,484.00
f	<b>Columns Upto Plinth Ratio (1:1½:3)</b>	1,320.00	P. Cft	349.00	460,680.00
g	<b>Columns Super Structure Ratio (1:1½:3)</b>				
i	Ground Floor	2,100.00	P. Cft	349.00	732,900.00
ii	Top Roof	150.00	P. Cft	349.00	52,350.00
10	<b>STEEL REINFORCEMENT</b> Fabrication of mild steel reinforcement using Tor Bars for cement concrete including cutting, bending, laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars) (Page No. 16, Item No. 8-b)	1,800.00	Per Cwt	5,001.70	9,003,060.00
11	<b>DAMP PROOF COURSE</b> Damp proof course 2" thick with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture. (Page No. 18, Item No. 28-b)	950.00	%Sft	3,912.85	37,172.08
12	<b>BRICK MASONRY</b> Pacca Brick Work in ground floor in cement sand mortar (1:4) (Page No.20, Item No.5-l(c)				
a	Ground Floor (Page No.20, Item No.5-l(c)	9,500.00	%Cft	13,227.41	1,256,603.95
b	First Floor (Page No.20, Item No.5-l(c) + Page No. 21 Item No. 6-a)	1,300.00	%Cft	13,666.04	177,658.52



**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
13	<b>SURFACE RENDERING</b> Cement Plaster 1:5 upto 12' height ½" thick Wall and Ceiling Plaster (Page No.51, Item No. 12-b)				
i	<b>Ceiling Plaster</b>				
a	Ground Floor	12,800.00	%Sft	2,241.80	286,950.40
b	First Floor	100.00	%Sft	2,381.80	2,381.80
14	<b>INTERNAL WALL (1ST LAYER)</b> Cement Plaster ¾" thick 1:6 upto 12' height Internal Wall Plaster 1st Layer (Page No. 51, Item No. 13-a)				
ii					
a	Ground Floor	14,000.00	%Sft	2,122.72	297,180.80
b	First Floor	150.00	%Sft	2,262.72	3,394.08
15	<b>INTERNAL WALL (2ND LAYER)</b> Cement Plaster ½" thick 1:4 upto 12' height Internal Wall Plaster 1st Layer (Page No. 51, Item No. 11-b)				
a	Ground Floor	14,000.00	%Sft	2,283.93	319,750.20
b	First Floor	150.00	%Sft	2,423.93	3,635.90
16	<b>EXTERNAL WALL (1ST LAYER)</b> Cement Plaster ¾" thick 1:6 upto 12' height External Wall Plaster 1st Layer (Page No. 51, Item No. 13-a)				
ii					
a	Ground Floor	13,500.00	%Sft	2,122.72	286,567.20
b	First Floor	150.00	%Sft	2,262.72	3,394.08
17	<b>EXTERNAL WALL (2ND LAYER)</b> Cement Plaster ½" thick 1:4 upto 12' height External Wall Plaster 1st Layer (Page No. 51, Item No. 11-b)				
a	Ground Floor	13,500.00	%Sft	2,283.93	308,330.55
b	First Floor	150.00	%Sft	2,423.93	3,635.90
18	<b>STONE PITCHING</b> Stone Pitching including sub-base with hammer dressed stone on surface laid in courses including carriage of materials chains. (Page No. 31, Item No. 23)	8,900.00	%Cft	5,377.63	478,609.07

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
19	<b>FINISH FLOOR</b> Providing and laying 2" thick topping cement concrete (1:2:4) including Surface finishing and dividing into panels (Page No. 41, Item No. 16c)	13,200.00	%Sft	3,275.50	432,366.00
20	<b>ALUMINUM WINDOWS / VENTILATORS</b> Supply & fixing Deluxe Model (Bronze) in position Aluminum channels framing for sliding windows & ventilators of Alcop made with 5mm thick tinted glass glazing (Belgium) & Aluminum fly screen including handless stoppers & locking arrangement etc. complete (Page No. 107, Item No. 84b)	1,600.00	Per Sft	1,318.15	2,109,040.00
21	<b>COLLAPSIBLE GATE</b> Providing and fixing iron collapsible gate with channel framing of section 3/4" X 5/16" at 4" l/c riveted with 3/4" x 1/8" flat iron patti placed diagonally and provided with top & bottom T-section 1"x 1" 1/8" along with rollers also l/c locking arrangement and fixing in floor/ ceiling or wall etc, completed. (S.I.No.32/P-94)	50.00	P. Sft	387.04	19,352.00
22	<b>PRIMING COAT</b> Priming Coat of chalk distemper (Page No.53, item No.23)				
a	Ground Floor	12,800.00	%Sft	442.75	56,672.00
b	First Floor	150.00	%Sft	442.75	664.13
23	<b>DISTEMPERING</b> Preparing surface and painting with Distemper- 1st coat over priming coat (Page No. 53, Item No. 24-c) 3 Coats				
a	Ground Floor	12,800.00	%Sft	1,079.65	138,195.20
b	First Floor	150.00	%Sft	1,079.65	1,619.48
24	<b>INTERNAL WALL PAINTING</b> Preparing surface and painting with matt finish including rubbing the surface with bathy (silicon carbide rubbing brick) filling the voids with zink / chalk/ plaster of paris mixture, applying first coat premix, making the surface smooth and then painting 3 coats with matt finish of approved make etc. complete (new surface). Page No. 54, Item No.36a+36b+36b				
a	Ground Floor	13,500.00	%Sft	3,444.38	464,991.30
b	First Floor	100.00	%Sft	3,444.38	3,444.38

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
25	<b>WEATHER COAT</b> Preparing the surface and painting with 3 coats of weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of paris and then painting with weather coat of approved make. (Page No.55, Item No.38-a&b)				
a	Ground Floor	13,500.00	%Sft	2,567.95	346,673.25
b	First Floor	150.00	%Sft	2,567.95	3,851.93
26	Extra labours for external surface for distemper / paint / white wash / colour wash / weather coat above 20'-0 height using long ladder or jhoola for each coat (for every 10'-0" additional height) Page No. 55, Item No. 42 + 42)	2,100.00	%Sft	456.18	9,579.78
27	<b>ENAMEL PAINT ON WOOD WORKS</b> Preparing surface and painting of doors and windows any type (including edges) 3 Coats (Page No. 68, Item No. 5-C-i-ii)	100.00	%Sft	2,116.41	2,116.41
28	<b>ENAMEL PAINT ON IRON WORKS</b> Painting guard bars, gates iron bars gratings, railing including standard braces etc. and similar open work (3 Coats) Page No.69, Item No.5-d-i-ii-iii)	100.00	%Sft	1,270.83	1,270.83
29	<b>GALZED CERAMIC TILES (BATHROOM)</b> Laying floors of approved coloured glazed tile ¼" thick laid in white cement and pigment on a bed of ¾" thick cement mortar 1:2. (Page No. 42, Item No. 25)	1,300.00	%Sft	27,747.06	360,711.78
30	<b>GLAZED TILE DADO (BATHROOM)</b> Glazed tiles dado ¼" thick laid in pigment over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Items No. 38)	4,400.00	%Sft	28,299.30	1,245,169.20

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
31	<b>FLUSH DOOR</b> Providing and fixing in position doors, windows and ventilators of first class deodar wood frames, and 1-3/4" thick commercial ply veneer shutters of first class deodar skeleton (Solid Door) and commercial ply wood (3 ply) on both sides including hold fasts, hinges, iron tower bolts, handles and cleats with cord and one Mortice lock and hooks. (Page No. 57, Item No. 9 ( - ) Page No. 60, Item No. 25/b)	1,250.00	P. Sft	856.53	1,070,662.50
32	<b>FRENCH POLISH</b> French Polishing complete on new works. (Page No. 70, Item No. 7a)	1,250.00	%Sft	3,841.75	48,021.88
33	<b>WOODEN ARCHITRAVE</b> Providing and fixing with sunk iron screws wooden Architrave approved design / shape having width not less than 2½" as directed by Engineer-in-Charge. (Page No. 65, Item No. 60)	1,000.00	Per Rft	49.97	49,970.00
34	<b>ALUMINIUM SHEET ON BATHROOM DOORS</b> Providing's and fixing Aluminium Sheet on doors pasted with glue as per requirement (Page No. 65, Item No. 61)	500.00	P.Sft	63.77	31,885.00
35	<b>ROOF SCREEDING</b>				
a	Providing and laying 2" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels. (Page No. 41, Item No 16-d)	14,000.00	%Sft	3,275.50	458,570.00
B	Two coats of bitumen laid hot using 34 lbs for %Sft over roof and blinded with sand at one cft per %Sft. (Page No. 34, Item No. 13)	14,000.00	%Sft	1,887.40	264,236.00

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
36	<b>PLINTH PROTECTION AND RAMP</b>				
a	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5)				
	• Ratio 1:4:8	400.00	%Cft	11,288.75	45,155.00
	• Ratio 1:3:6	750.00	%Cft	12,595.00	94,462.50
b	<b>FORM WORK</b> Erection and removal of centering RCC or plain cement concrete works of Partal wood (2nd Class) Vertical (Page No.17, Item No.20-bii)	900.00	% Sft	3,127.75	28,149.75
c	¾" thick Cement Plaster 1:4 upto 12' height. (Page No.51, Item No.11-C)	2,400.00	%Sft	3,015.75	72,378.00
d	<b>SUB FLOORING</b> Cement concrete plain (ratio1:3:6) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No.15, Item No.5h)	1,100.00	%Cft	12,595.00	138,545.00
e	<b>FINISH FLOOR</b> Providing and laying 2" thick topping cement concrete (1:2:4) including Surface finishing and dividing into panels (Page No. 41, Item No. 16c)	2,200.00	%Sft	3,275.50	72,061.00
<b>SUB TOTAL OF SCHEDULE ITEMS</b>				<b>Rs.</b>	<b>30,212,970.27</b>

Total Amount of Schedule Items (Except Sr.No. 20,29,30)	Rs. 26,498,049.29
Add: ____ % Premium on Above / Below	Rs.
Total Amount of Sr.No. 20,29,30 (Schedule Items)	Rs. 3,714,920.98
Add: ____ % Premium on Above / Below	Rs.
<b>TOTAL COST OF CIVIL WORKS (SCHEDULED ITEMS)</b>	<b>Rs.</b>

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
37	<b>CLEARING THE SITE</b> Cleaning the site cutting of bushes, trees PCC Pavers / Floor, block wall debris and rubbish of all kind, etc. for proper execution of work including layout of structure with making center line, C.C Pillars upto required height etc. complete as per drawing and Removing old debris and rubbish of all kinds and sizes including all lead and lifts as per specification and instruction of Engineer-in-Charge	Lump sum	Job		
38	<b>GUTKA BRICK</b> Providing and fixing Gutka Brick facing 2 1/2"x 9" x2 1/4" size of approved design set in cement mortar 1:3 i/c filling the joints with white cement slurry colour pigment for matching i/c levelling smooth finishing, curing and scaffolding etc complete as per specification and directed by the Engineer / Incharge.	100.00	P. Sft		
39	<b>UPVC RAIN WATER DOWN PIPE</b> Providing and fixing of 4" dia UPVC best approved quality rain water Down pipe with all fittings fixing, jointing, hanging with clamps and hold fast including lifting, hoisting, transportation, wastage, scaffolding etc. complete in all respects and conforming to the requirements of drawings, specification and approval of the Engineer	200.00	Rft		
40	<b>SUMP</b> Making 12"x12" size sump floor (Khurra) at roof with 1:3 ratio cement sand mortar making connection for PVC pipe providing proper sloop to drain out rain water, including, curing, finishing etc., complete in all respects and conforming to the requirements of drawings, specifications and approval of the Engineer	10.00	No.		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
41	<p><b>WARDROBE</b>            Providing and fixing ¾" thick teak ply veneered sliding openable shutter in cupboard with shelves and best quality 1" X 1½" deodar wood frame, beading 1"X½" including hardware fittings hinges, handles, catcher, stopper where necessary with approved quality locks and 2 coats of lacquer polishing etc. complete in all respect as per drawings, specifications and instructions of the Architect / Engineer-in-charge. (upto any height and any floor) front face will be measured for payment.</p>	210.00	P.Sft		
42	<p><b>G.I FRAME</b>            Providing and fixing G.I. Frames / Choukhats 16 guage of the following sizes having double MS rebate sheet provision of 3 Nos. 1 ½ x ¼ M.S. plate welded to frame for fixing, steel hinges including iron legs, filling the cavity with C.C 1:2:4 and painting 3 coats with approved enamel paint over a 1 coat of primer (red oxide), cartage to site, etc. complete in all respects and conforming to the requirements of drawings, specification and approval of the Engineer (at any floor)</p>				
a	10" x 2" & 12" x 2"	700.00	P.Rft		
b	7" x 2" & 5" x 2"	200.00	P.Rft		
43	<p><b>IRON GRILL</b>            Providing and fixing in position of M.S Grill in walls fabricated from ½" x ½" vertical and horizontal square bars @ 6" C/C welded with M.S ¼" x ¾" M.S. flat frame including M.S. holdfast fixed in RCC work or masonry work including painting 3 coats with approved enamel paint over a coat of shop primer (red oxide) cartage to site, etc. complete in all repects and conforming to the requirements of drawings, specification and approval of the Engineer (at any floor)</p>	100.00	Sft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
44	<p><b>ALUMINUM DOOR</b>            Providing and fixing aluminum anodized fully glazed swing/sliding door made with heavy duty premium model (champagne colour) aluminum section 4 inch wide and 2mm thick with collar alongwith with 5mm thick tinted glass fixed with PVC gasket alongwith PVC handles of 5 inch wide and 1.6 mm thick and all necessary hardware fittings, locking arrangement etc., including caulking all masonry joints with sealant, cartage to site etc. complete in all respects and conforming to the requirements of drawings, specifications and approval of the Engineer. (at any floor)</p>	35	Per Sft		
45	<p><b>FALSE CEILING</b>            Providing and fixing of mineral fiber ceiling panels of 2' x 2' size fixed on (fancy aluminum "T &amp; L" section ) heavy duty &amp; G.I suspension system frame hanging at suitable height at any floor including cost of all materials, labours, tools, equipment, transportation hoisting, lifting, wastage which included angles, wiring and all accessories laid from RCC Slab, etc. complete as per drawings, specification and as directed by the Engineer</p>	100	Per Sft		
46	<p><b>MARBLE ON STAIR STEPS (ONE PIECE)</b>            Providing and laying of pre-polished marble on Treads of steps 1" thick marble in one piece of approved sample and colour laid over 1:3 cement fine sand mortar base of required thickness so as to achieved finished floor level having nosing of 1" with double gola-make edge including chemical poloshing, grinding, grouting of joints, cartage to site, etc. before handover, complete as per drawings and approval of Engineer (at any floor)</p>	650.00	Per Sft		



**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
47	<p><b>MARBLE RISER</b></p> <p>Providing and laying of pre-polished marble on raiser of steps ¾" thick machine cut pieces of approved sample and colour laid against ½" thick base of cement plaster in 1:4 cement and fine sand mortar or glueing the marlbe with epoxy including chemical poloshing, grinding, grouting of joints, cartage to side etc. before handover, complete as per drawings and approval of Engineer (at any floor)</p>	300.00	Per Sft		
48	<p><b>MARBLE ON LANDING</b></p> <p>Providing and laying of pre-polished marble on Landing of steps ¾" thick (Size (2'-0" x 1'-0")) machine cut pieces of approved sample and colour laid against ½" thick base of cement plaster in 1:4 cement and fine sand mortar or glueing the marlbe with epoxy including chemical poloshing, grinding, grouting of joints, cartage to site etc. before handover, complete as per drawings and approval of Engineer (at any floor)</p>	1,500.00	Per Sft		
49	<p><b>MARBLE SKIRTING</b></p> <p>Providing nad laying of pre-polished marble on Skirting of steps ¾" thick machine cut pieces of skirting height 6" of approved sample and colour laid against ½" thick base of cement plaster in 1:4 cement and fine sand mortar or glueing the marlbe with epoxy including chemical polishing, grinding, grouting of joints, cartage to site, before handover, etc. complete as per drawings and approval of Engineer (at any floor)</p>	300.00	Per Sft		
50	<p><b>WATER PROOFING IN SUNK &amp; PLANTER AREA</b></p> <p>Providing and applying ¾" thick ratio 1:3 plaster mixed with water proofing admixture in planter are. Work, cartage to site, etc. complete in all respect as per instructions of the Architect / Engineer (at any floor)</p>	1,350.00	P.Sft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
51	<p><b>STEEL GRATED DOOR</b></p> <p>Making and fixing of steel grated door in walls using 3/8" x 3/8" size solid square bars 4 inch centre to centre with 16 gauge sheeting of 3'-0" height in centre of door welded with MS flat angle (patti) framing of 2" x 2" x 1/8" with all necessary hardware fittings, handle locks etc. i/c painting 3 coats with approved enamel paint over a coat of shop primer (red oxide), cartage to site, complete in all respects and conforming to the requirements of drawings, specifications and approval of the Engineer.</p>	35.00	P.Sft		
52	<p><b>GROOVE INPLASTER</b></p> <p>Providing, making horizontal or vertical joints or grooves of approved design &amp; size including cost of all materials, labours, tools, tackles, watering, curing, transportation, wastage hoisting, scaffolding &amp; its removal etc complete as per drawings, specification and as directed by the Engineer</p>	50.00	Per Rft		
53	<p><b>PLASTER BAND</b></p> <p>Providing &amp; Making 1/2" thick plaster band 4" to 6" wide with 1:4 cement mortar in all floors including including cost of all materials, labours, tools, tackles, transportation, wastage watering, curing, hoisting, scaffolding &amp; its removal etc complete as per drawings, specification and as directed by the Engineer</p>	50.00	Rft		
54	<p><b>MARBLE SLAB ON COUNTER</b></p> <p>Providing and fixing 3/4" thick prepolished marble slab of approved size, colour and quality over wash basin including making opening in slab for wash basin or wherever required at any floor, fixing, leveling, transportation, wastage with cost of all materials, labours, etc.. Complete in all respect as per instructions of the Architect / Engineer-in-Charge.</p>	80.00	P.Sft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
55	<p><b>PORCELAIN TILES FLOORING</b>            Providing and laying porcelain tiles of approved Pakistan make, Master / Shabbir make, shade, thickness and size 4 Sft on floors over a 3" thick bed of 1:4 cement and sand mortar and grouting the joints with neat cement slurry to match the colour of tiles including curing, washing and cleaning the tiles at any height and floor, cartage to site, etc. complete in all respects and conforming to the requirements of drawings, specifications and approval of the Engineer.</p>	9,900.00	P.Sft		
56	<p><b>PORCELAIN TILES SKIRTING / DADO</b>            Providing and laying of porcelain tile skirting and dado of approved Pakistan make, Master / Shabbir make, shade, thickness and sizes 4 Sft over ½" thick base of cement plaster in 1:4 cement and fine sand mortar, including curing, washing and cleaning the tiles at any height and floor, cartage to site, etc. complete in all respect and confiming to the requirement as per drawings, specifications and</p>	600.00	P.Sft		
57	<p><b>SULPHATE RESISTING CEMENT</b>            Providing and using <b>Sulphate Resisting Cement</b> in place of ordinary Portland cement</p>	120,000.00	Per K.G		
58	<p><b>C.C GOLLA</b>            Providing and laying gola 3" X 3" concrete 1:2:4 using graded screened bajri at junction of slab and walls and finished with cement plaster 1:3 including cost of all materials, labours, tools, hoisting, transporting, wastage,curing etc. complete as per drawings, specification &amp; as directed by the Engineer</p>	900.00	P.Rft		
59	<p><b>INVERTED CLAY POTS IN FILL SUNK AREA</b>            Providing and laying inverted clay pots in toilet sunk area with concrete 1:4:8 in fill and 2" thick concrete 1:2:4 on top, all as per drawing and as directed by the Engineer-in-Charge.</p>	1,350.00	P.Sft		
60	<p><b>DRIP COURSE</b>            Making drip course ½" x ¾" (13mm x9.5mm) size under R.C.C or C.C coping and chajja etc, complete in all floors including cost of all materials, labours, tools, hoisting, transporting, wastage extra cement mortar 1:3 and curing etc complete as per drawings, specification as directed by the Engineer (at any floor)</p>	50.00	Rft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)

Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
61	<b>STAINLESS STEEL HANDRAILING (3' Height)</b>				
a	Providing and fixing best quality stainless steel handrailing for stairs of 2" dia stainless steel pipe horizontal pipe fixed over 1" dia Stainless Steel vertical pipe to be embedded in RCC Steps etc @ 12" C/C by means of flange and flange cover along with ½" dia stainless steel horizontal bracing pipe 2 Nos. below hand rail at an equal distance including all specials, bends, tees, etc. cutting holes and making good the same, at any floor before handover to client etc. complete in all respect as per drawings, specification and approval of Engineer (at any floor)	80.00	Per Rft		
b	Providing and fixing best quality stainless steel handrailing for pardi of 2" dia stainless steel horizontal pipe fixed over 1" dia stainless steel vertical pipe to be embedded in RCC pardi etc. @ 12" Centre to Centre by means of adequate anchors including all specials, bends, tees etc. cutting holes and making good the same before handover to client, etc. complete in all respect as per drawings, specifications and approval of Engineer (at any floor)	10.00	Per Rft		
62	<b>DOOR LOCKS (HEAVY DUTY)</b> Providing and fixing Heavy Duty with C.P brass screws Alpha knob set lock of approved design, manufacturer, and color, cutting wood to required shape and size with three operation keys (Taiwan make). etc. Complete in all respect as per specification & instruction of the Engineer-in-Charge	27	each		
63	<b>DOOR LOCKS</b> Providing and fixing Washroom door locks with C.P brass screws Alpha knob set lock of approved design, manufacturer, and color, cutting wood to required shape and size with three operation keys (Taiwan make). etc. Complete in all respect as per specification & instruction of the Engineer-in-Charge	5	each		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
64	<b>DOOR CLOSER</b> Providing and fixing with brass screws or specially supplied screws hydraulic door closer of approved design and manufacturer, cutting wood etc to required shape and size (Japan make). etc. Complete in all respect as per specification and instruction of the Engineer-in-Charge.	5	each		
65	<b>ALDROP LOCK</b> Providing & Fixing door lock is made from the finest grade basic material. These locks are accurately designed by the expert professionals at or vendors end.	20.00	each		
66	<b>DRESSING LAWN</b> Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods complete including disposal of rubbish within 3 chains (92 m).	20.00	P.Sft		
67	<b>COWDUNG MANURE</b> Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	10.00	P.Cart		
68	<b>SPREADING COWDUNG MANURE</b> Spreading cowdung manure and mixing the same upto any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish within 3 chains (92 m) complete.	10.00	P.Cft		
69	<b>GARDEN SOIL</b> Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts.	10.00	P.Cft		
70	<b>SWEET EARTH</b> Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish within 3 chains (92 m) complete.	10.00	P.Cft		
71	<b>DACCA GRASS</b> Supply live (Dacca) grass in slabs with earth intact including all lead and lifts.	20.00	P.Sft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Civil Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
72	<p><b>WATER STORAGE TANK OVER ROOF</b></p> <p>Construction of RCC Over Head Water tank over roof of specified strength with pouring and cast in RCC of ratio 1:1½:3 O.P Cement, fine sand and ¾" maximum size graded crush aggregate including approved formwork and its removal in O.H.Tank at any height, all operation of vibrating, leveling, consolidation including cost of Steel Reinforcement (deformed), curing it also include the external plaster ¾" thick of ratio 1:3 cement fine sand mortar whereas the internal plaster of ½" thick of ratio 1:3 cement fine sand mortar mixed with approved water proofing agement pudlo or its equivalent grade @ 2.5 kg / per bag in walls and ceiling of tank which also includes the 2" thick bed concrete of ratio 1:2:4 concrete in flooring of tank with ladder and manhole opening size 24" x 24" along with cast Iron Water tight Manhole frame 1" x 1" and cover weight of 20 kg with proper locking arrangement etc. complete in all respect as per drawings, specification and as directed by the Engineer</p>	4,160.00	Per Glen		
<b>Cost of Non-Scheduled Items (Civil Work)</b>				<b>Rs=</b>	

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Plumbing Works)  
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
73	<p><b>PAKISTANI WC</b> Providing and fixing squatting type white glazed earthen ware W.C. Pan with front flush inlet and complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth and floor for pipe connection and making good in cement concrete 1:2:4 (foreign equivalent) with 4" dia C.I. Trap (Page No. 1, Item No. 2-a)</p>	16	Each	5,728.80	91,660.80
74	<p><b>EUROPEAN WC</b> Providing and fixing European white glazed earthen ware wash down W.C. Pan complete with and including the cost of white / black plastic seat (best quality) and lid with c.p. brass hinges and buffers, 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½" dia white porcelain enamelled flush bend ¾" dia and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement 1:2:4 (foreign quality) Page No. 2, Item No. 5.</p>	2	Each	11,477.40	22,954.80
75	<p><b>GULLY TRAP</b> Providing and fixing 6" X 6" X 4" CC Guly Trap with 4" outlet complete 4" thick 1:2:4 CC for bed &amp; ½" thick cement plaster (1:3) to the kerb, C.I. grating 6" X 6" &amp; C.I. Cover and frame 12" X 12" (inside) etc. complete (Page No. 23, Item No. 1)</p>	6	Each	1,193.17	7,159.02
76	<p><b>NYLON CONNECTION</b> Providing and fixing in position nylon connection complete with ½ dia brass stop cock with pair of bass nuts and lining joints and nylon connections. (CH-I, Page No. 6, Item No. 23)</p>	32	Each	447.15	14,308.80
77	<p><b>SOAP TRAY</b> Supplying &amp; fixing soap tray earthen ware with c.p. screws etc. complete (Chapter 2, Toilets, Page No. 8, Item No.5)</p>	14	Each	497.20	6,960.80

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Plumbing Works)  
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
78	<b>LAVATORY BASIN</b>				
a	Providing and fixing 24" X 18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever brackets 6" built into walls painted white in two cats after a primary coat of red lead paint a pare of ½" dia rubber plug and chrome plated brass chain 1¼" dia malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4 (foreign equivalent) Page No. 3, Item No. 10.	14	Each	4,928.00	68,992.00
b	Add extra labour for providing fixing of earthen ware PEDESTAL WHITE OR COLOUR GALZAED) CH-I: Page No. 4, Item No. 10 +11)	14	Each	2,533.47	35,468.58
79	<b>BATHROOM ACCESSORIES</b>				
	Supply and fixing Bathroom Accessories set (7 Piece) including towel rod, brush holder, soap tray, shelf of approved design including cost of screws, nuts etc. complete (Master Brand or as recommended by Engineer-in-Charge). Page No. 19, Item No. 23	4	Each	10,322.40	41,289.60
80	<b>C.I.TRAP</b>				
	Providing and fixing C.I. trap with 4" dia inlet and 4" dia outlet of the approved self cleaning design with a C.I. grating with or without a vent arm including cas t of jointing requisite number of holes in walls, plinth and floor for pipe connection and making good cement concrete 1:2:4. (CH-I, Page NO. 6, Item No. 21)	32	Each	1,671.58	53,490.56
81	<b>TEE STOP COCKS</b>				
	Supply and fixing ½" dia concealed tee stop cock of superior quality with cp head (CH-VI-Page No. 18, Item No. 12-b)	32	Each	889.46	28,462.72
82	Providing & fixing chrome plated brass towel rail complete with 1" long c.p brass screws (Towel rail 36" long) ¾" dia round or square (Superior quality) (Chapter No. 2 - Toilets Page No. 07, item 1-i-b)	2	Each	1,412.95	2,825.90
83	Providing and fixing c.p brass toilet paper holder of standard size with chrome plated brass brackets complete (Similar to twyfords design No. 1108) Superior Quality (Page No. Chapter No. 2 -Toilets page No. 7, item 2-b)	18	Each	1,071.40	19,285.20



**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Plumbing Works)  
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
84	<b>LONG BIB COCKS</b> Supply and fixing ½" dia long bib cock of crystal head of superior quality. Complete (CH-VI-Page No. 19, Item No. 13-b)	18	Each	1,384.24	24,916.32
85	<b>PILLER COCK</b> Supply and fixing swan type piller cock of superior quality with crystal head. complete (CH-VI, Page No. 19, Item No. 16-b)	14	Each	877.80	12,289.20
86	<b>MUSLIM SHOWER</b> Supply and fixing C.P. Muslim Shower with double Bib Cock and ring pipe etc. complete (Page No. 19, Item No. 19-a)	18	Each	3,432.00	61,776.00
87	<b>STOP COCK</b> Supply and fixing concealed tee- stop cock of superior quality with c.p. head ½" dia (Page No. 18, Item No. 12-a)	1	Each	843.92	843.92
88	<b>HANDLE VALVE</b> Providing and fixing handle valves (china) with wheels, threaded or flanged ends with rubber washers (standard pattern)				
a	CH-VI-Page No. 17, Item No. 5-ii (¾" Dia)	4	Each	271.92	1,087.68
b	CH-VI-Page No. 17, Item No. 5-iii (1" Dia)	4	Each	365.42	1,461.68
Sub Total				Rs=	495,233.58
_____ % Premium on Above / Below				Rs=	
<b>Cost of Scheduled Items (Plumbing Work)</b>				Rs=	

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
89	<b>LOOKING MIRROR</b> Providing and fixing bavelled edge mirror of Belgium glass complete with 1/8" thick hard. (Superior Quality) of approved size and design including glass tray, grilling, cutting, fitting as per specification and as directed by the Engineer.	120.00	P.Sft		
90	<b>MANHOLE</b> Providing, laying and construction of PCC 1:2:4 manhole and inspectoin chamber for the required size & shape for sewer upto required depth with 9" thick PCC walls and 4" thick RCC precast Slab, excavation and backfilling around the Manhole, (compaction in layer wise, form work and its removal) watering, curing, cement plastered (1:3) 1/2" thick inside of walls with pudlo and 1" thick over benching and making of chamfered including fixing of C.I.Manhole cover with frame of clear opening 2' X 2' of 18 kg weight embaded in plain CC 1:2:4 and fixed with 6" dia MS steps 6" wide, projecting 4" from the face of wall at 12" CC duly painted complete as per standard drawing, specifications and as per instruction of Engineer				
a	Size 4'-6" x 4'-6" x 3' to 4' clear depth	3	Each		
91	<b>PPRC</b> Providing and fixing <b>PPRC Pipes</b> and specials, etc.; including fixing, cutting and fitting, complete with and including the cost of cutting trench upto 2'-6" feet deep, refilling watering, ramming and disposal of surplus earth within one chain and painting 2 coats of bitumen paint to pipes and specials after cleaning and hessian cloth soaked in maxphalt composition wrapped tightly round the pipes and testing to a pressure head of 200 feet including cartage complete in all respect, as per drawings, specification and as directed by the Engineer				
a	Do. Do 1/2 inch (12 mm) Dia Pipe.	180.00	Rft		
b	Do. Do 3/4 inch (20 mm) Dia Pipe.	1,800.00	Rft		
c	Do. Do 1 inch (25 mm) Dia Pipe.	1,800.00	Rft		
d	Do. Do 1 1/4 inch (32mm) Dia Pipe	300.00	Rft		
e	Do. Do 2" inch (50mm) Dia Pipe	300.00	Rft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
92	<b>NON RETURN VALVE</b> Providing & fixing 2" dia non return valve. Complete in all respect as per instructions of the Engineer-in-charge	1	Each		
93	<b>MONO BLOCK PUMPING SET</b> Providing and fixing mono block pumping set complete with ½ HP pump 2800 RPM complete with AC 220 V single phase motor on a common base plate having suction & discharge 1" X 1" and 40' head as approved including excavation, cast of RC foundation in ratio 1:2:4 S.R.C fairface including supply and installation of foundation bolts and nuts etc. of required dia meter. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
94	<b>U.P.V.C</b> Providing and fixing <b>Un Ployvinyl Chloride Pipe (U.P.V.C) "B" Class</b> and tee, Bend & Elbow Specials etc. including cutting and fitting, complete with and including the cost of trench up to 1-1½ feet deep refilling, watering , ramming and disposal of surplus earth within one chain and after cleaning the pipe including cartage complete in all respect, as per drawings, specification and as directed by the Engineer				
a	Do. Do 3 inch (75 mm) Dia Pipe.	400.00	P.Rft		
b	Do. Do 4 inch (100 mm) Dia Pipe.	300.00	P.Rft		
c	Do. Do 6 inch (150 mm) Dia Pipe.	50.00	P.Rft		
d	Do. Do 9 inch (225 mm) Dia Pipe.	50.00	P.Rft		
<b>Cost of Non-Scheduled Items (Plumbing Work)</b>				<b>Rs=</b>	

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Electrical Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>SUB HEAD: INTERNAL ELECTRIFICATION</b>				
95	Wiring for light or fan point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit recessed in wall or in columns as required.(Page No. 15, Item No. 124) (Pak/AGE/Fast)	99.00	Per Point	1,130.00	111,870.00
96	Wiring for Plug point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit recessed in the wall or column as required.(Page No. 15, Item No. 126) (Pak/AGE/Fast)	20.00	Per Point	985.00	19,700.00
97	Providing and fixing brass ceiling fan 56" (good quality)(Page No. 34, Item No. C-235) (PAK/ Millat/ Asia)	6	Each	3,185.00	19,110.00
	<b>MAIN CABLING</b>				
98	Providing and laying (MAIN or SUB MAIN) PVC insulated with size 4-7/.052 (10 mm <sup>2</sup> ) copper conductor in 1.5" dia PVC conduit recessed in the wall or column as required. (Page No. 6, Item No. 41)	100.00	P.Mtr	858.00	85,800.00
	<b>MAIN OR SUB MAIN</b>				
99	Providing and laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.029 copper conductor in ¾" dia PVC conduit recessed in the wall or column as required (Page No. 4, Item No. 24) (Pak./ Poineer-Fast)	3,800.00	P.Mtr	294.00	1,117,200.00
100	Providing and laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.036 copper conductor in ¾" dia PVC conduit recessed in the wall or column as required (Page No. 4, Item No. 25)	500.00	P.Mtr	338.00	169,000.00
Sub Total				Rs=	1,522,680.00
_____% Premium on Above / Below				Rs=	
<b>Cost of Scheduled Items (Electrical Work)</b>				Rs=	

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Electrical Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>ACCESSORIES</b>				
101	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E31-36/1/2A Clipsal make)	99	Each		
102	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E15 Clipsal make)	20	Each		
103	Providing & fixing Polycarbonate flame retardant, 400 watts fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (E32V400F Clipsal make)	6	Each		
104	Providing & fixing 3"x4"x5" size 1/8" thick recessed type fan clamp box with 5/8" dia MS bar fan clamp fixed in riif at casting time as required.	6	Each		
105	Providing & installing 30 Cm (12") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14/.0076" flexible wire complete as required Millat / Pak / Asia / Younas / Climax / Royal.	14	Each		
106	Making hole in the wall for 12" to 16" sweep metallic exhaust fan and fixing of holefast, duly palaster and making good the damage as required.	14	Each		
107	Providing & installing (24") sweep, mettalic body Bracket Fan complete with blades, motor, etc fitted in wall or column including connection with 14/.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	1	Each		
108	Supply & fixing 20mm ( 3/4") dia PVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required. (Gelco, Jaddah)	3,000.00	Per Rft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Electrical Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
109	Providing & laying of 10 mm <sup>2</sup> Single core PVC insulated wire in all kinds of existing or given conduit or cable duct as per Pak. P.W.D specification as required.(2-32-06)(ECC)	100.00	P.Mtr		
110	Providing and fixing earthing set with 2'x2'x1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earthing chemical Power) etc making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2" G.I conduit complete in all respect as required.	1.00	Job		
	<b>SUB HEAD: COMMUNICATION</b>				
111	Providing & fixing Polycarbonate flame retardant Telephone socket 4 contact single 2 line with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E31RJ64SM Clipsal make)	2.00	Each		
112	Providing & fixing Polycarbonate flame retardant data socket unit with 8 contact cat 5 with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (E31RJ64SM Clipsal make)	2.00	Each		
113	Supplying, Termination, Installing and deploying, CAT-6 ethernet wires for all the required nodes mentioned in drawings with end to end fluke testing in 3/4" dia PVC pipes, proper harnessed and structured cabling including labelling, tagging at both ends and fixing them in communication racks, with available manageable switches copper /SFP Modules as Duplex SFP ports / for Fiber uplinks, with Cable Manager, patch panels inside to accommodate each and every node, with all accessories complete in respect as needed or as required, Make 3-M / Schneider/	500.00	Per Rft		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

**BILL OF QUANTITIES**

(Electrical Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
114	<p><b>SUB HEAD: L.V. SWITCHGEAR</b></p> <p>Supply at site, fabrication, installation, commissioning and testing of the Power Distribution Boards (PDBs), Protection Classification not less than IP-44. Sheet metal clad 16 SWG for frame and 14 SWG for doors. Totally enclosed wall mounted/ Recessed in wall indoor type with front access and hinged door. including all auxiliaries and interlocking, internal wiring, designation labels on and MCCB's and MCBs. Earthing bar shall be suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral bus bars of hard drawn bare copper conductor, 99.9% electrolytic copper, Switch Board duly painted with electro static Powder coating of approved colour. Complete in all respects. (Make Siemen,Sccheider,ABB)</p>				
a	<p>DB-JUDO</p> <p><b><u>INCOMING</u></b></p> <p>2- 40 Amps. T.P. 10 KA. MCCB 3- Phase Indication lamp 1- Ampere Meter 1- Volt Meter 1- Neutral bar 1- Earth bar 1- 40 Amp ChangeOver</p> <p><b><u>OUTGOING</u></b></p> <p>21-10 Amps. SP. 10 KA. MCB 02-16 Amps. SP. 10 KA. MCB 04-20 Amps. SP. 10 KA. MCB</p>	1.00	Each		
115	<p><b>SUB HEAD: FITTING &amp; FIXTURE</b></p> <p>Providing and fixing 8" size imported concealed / surface type LED pannel light 18 W. complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)</p>	24.00	Each		

**CONSTRUCTION OF JUDO ACADEMY AT  
SINDH AGRICULTURE UNIVERSITY TANDOJAM**

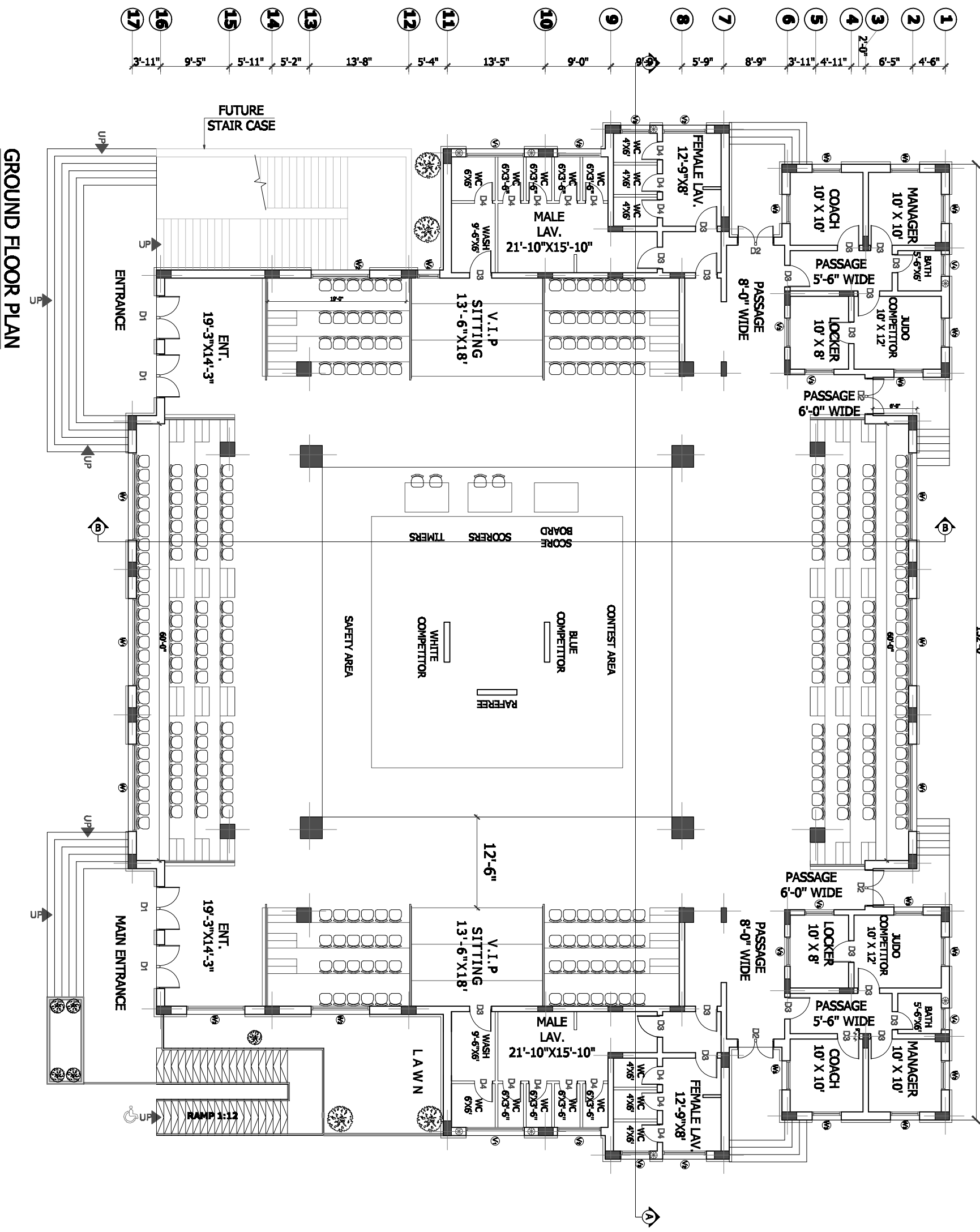
**BILL OF QUANTITIES**

(Electrical Works)  
Non-Schedule Items

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
116	Providing and fixing 6" size (round / square shape) imported concealed / surface type LED pannel light 16 W. complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	4.00	Each		
117	Providing and fixing 4" size (round / square shape) imported concealed / surface type LED pannel light 10 W. complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	44.00	Each		
118	Providing and fixing of fluorescent batten fitting with 1x 14 watt T5 Lamp complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	2.00	Each		
119	Providing and fixing of Ceiling mounted Smart LED panel of 40 watt LED 2 x 2 size fittings with decorative base plate complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	100.00	Each		
120	Providing and fixing of wall monted 1 x 18 watt LED Lamp complete in all respect including connection as approved by the Engineer-in-Charge. (imported or as recommended by Engineer)	5.00	Each		
<b>Cost of Electrical Work Non-Schedule Items</b>				<b>Rs=</b>	



A B C D E F G H J K L M N P Q R S T U V W X  
 3'-3" 2'-2" 8'-4" 2'-8" 3'-9" 2'-6" 10'-11" 6'-7" 4'-8" 15'-9" 20'-0" 15'-9" 4'-8" 6'-7" 10'-11" 2'-6" 3'-9" 2'-8" 8'-4" 2'-2" 3'-3"



GROUND FLOOR PLAN

Project:

**SINDH AGRICULTURE**  
**UNIVERSITY (SAU) TANDOJAM**

**JUDO ACADEMY**

**GROUND FLOOR PLAN**

DATE: SEP. 2022

SCALE: N.T.S

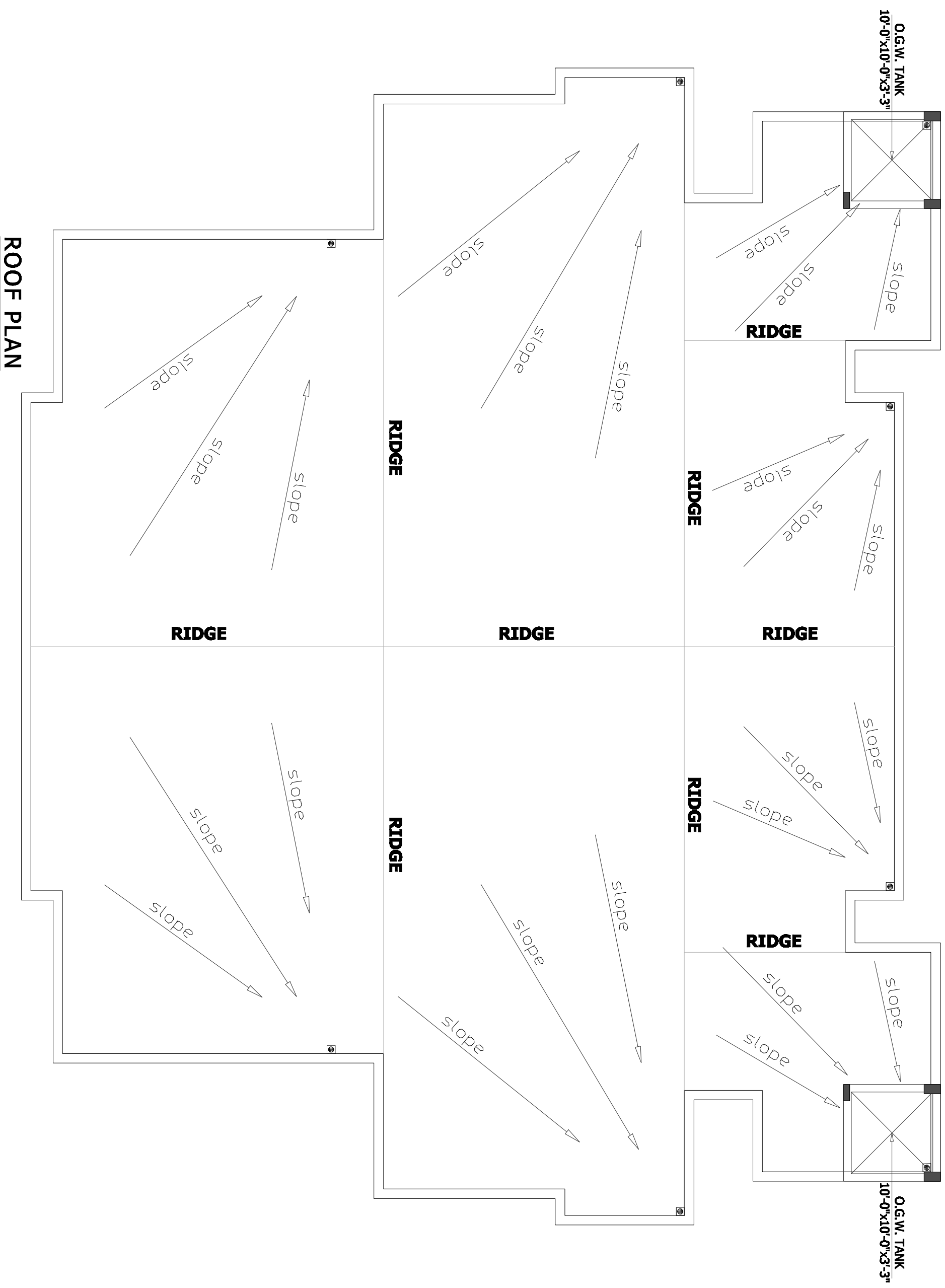
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DWG.NO: AR-01



**SHAHZAD**  
**ASSOCIATES**

CONSULTING ARCHITECTS, ENGINEERS & PLANNERS  
 KARACHI OFFICE: 2ND FLOOR PARZANA BUILDING SHAHRD-BADLIAT ROAD,  
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ROOF PLAN

Project:

**SINDH AGRICULTURE  
UNIVERSITY (SAU) TANDOJAM**

**JUDO ACADEMY**

**ROOF PLAN**

DATE: SEP. 2022

SCALE: N.T.S

DRAWN BY: USAMA

DWG.NO: AR-02



**SHAHZAD  
ASSOCIATES**  
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Project:

**SINDH AGRICULTURE  
UNIVERSITY (SAU) TANDOJAM**

**JUDO ACADEMY**

**SECTION AT A-A & B-B**

DATE: SEP. 2022

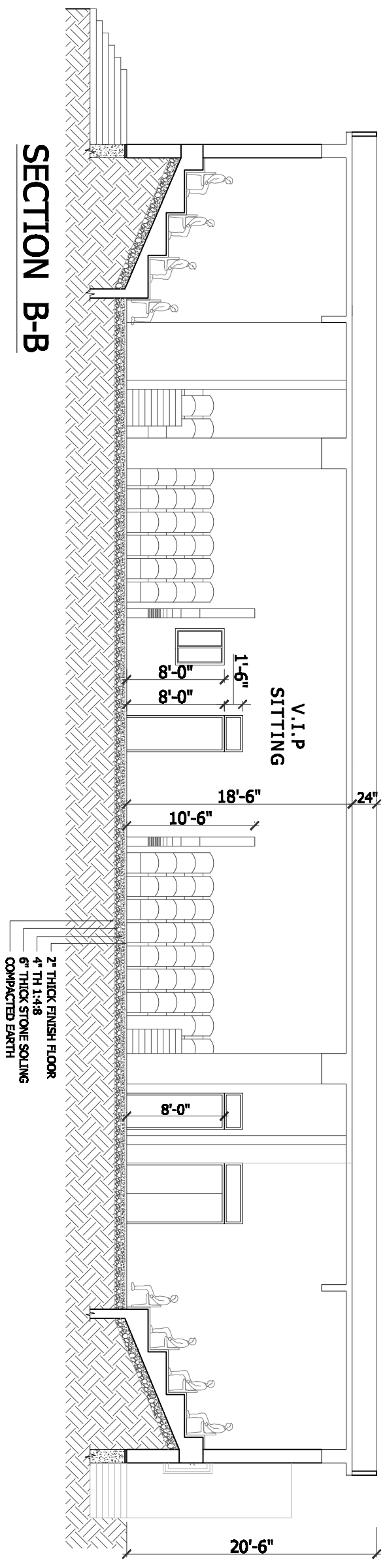
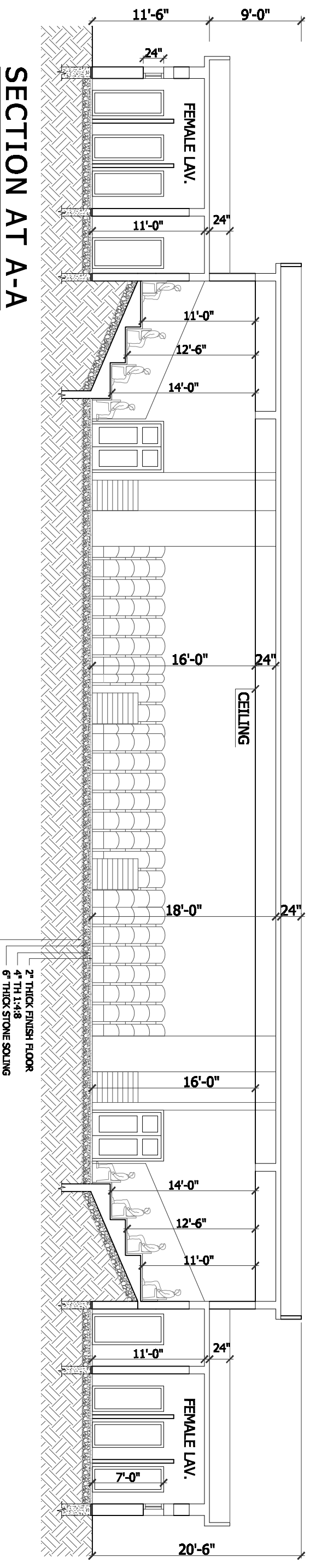
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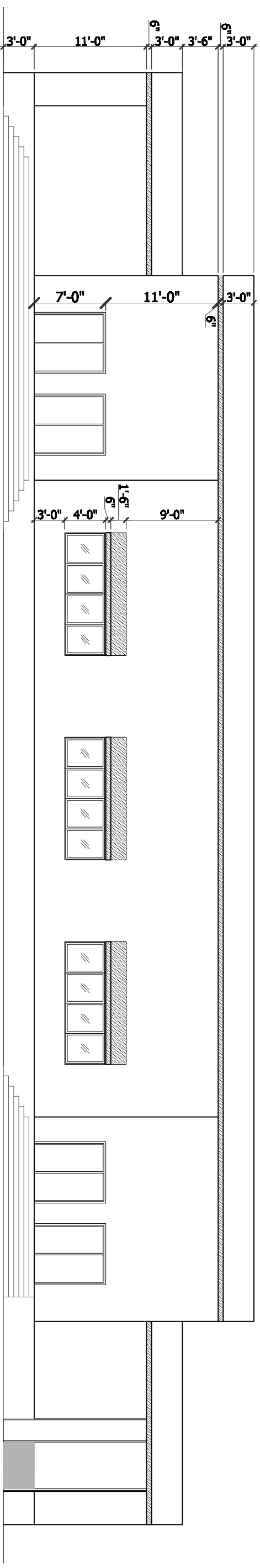
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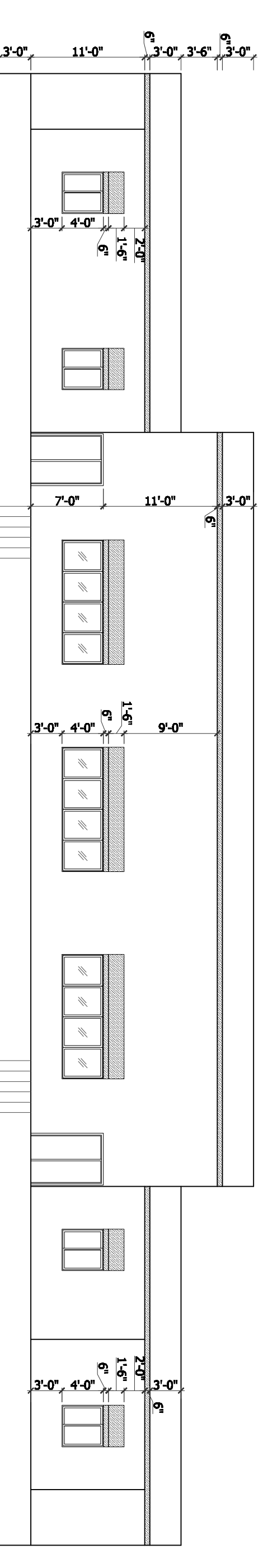
**SHAHZAD  
ASSOCIATES**

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KARACHI OFFICE: 2ND FLOOR PARZANA BUILDING, SHAHRD-BADLIAT ROAD,  
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**FORNT  
ELEVATION**



**BACK  
ELEVATION**

**Project:**

**SINDH AGRICULTURE  
UNIVERSITY (SAU) TANDOJAM**

**JUDO ACADEMY**

**FRONT ELEVATION &  
BACK ELEVATION**

**DATE:** SEP. 2022

**SCALE:** N.T.S

**DRAWN BY:** USAMA

**DWG.NO:** AR-04

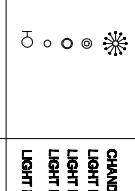
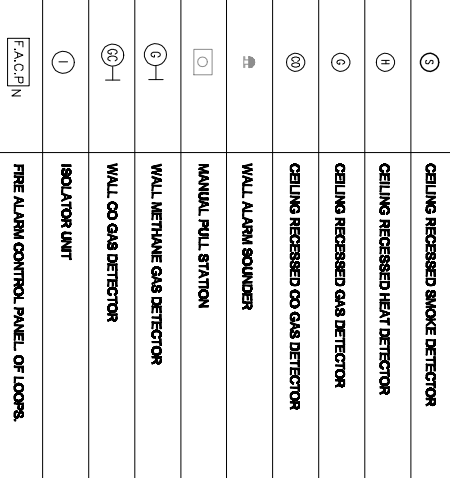


**SHAHZAD  
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## L E G E N D

LIGHT SYSTEMS		SMOKE & FIRE ALARM SYSTEM	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CHANDELER 1000 W		CEILING RECEIVED SMOKE DETECTOR
	LIGHT POINT CEILING - 300 W		CEILING RECEIVED HEAT DETECTOR
	LIGHT POINT CEILING - 100 W		CEILING RECEIVED GAS DETECTOR
	LIGHT POINT CEILING - 50 W		CEILING RECEIVED CO GAS DETECTOR
	LIGHT POINT MIRROR		CEILING RECEIVED CO GAS DETECTOR
	FLUORESCENT LIGHT FIXTURE CEILING OR RECESS88 MOUNTED 30W		WALL ALARM SOUNDER
	FLUORESCENT LIGHT FIXTURE MIRROR		MANUAL PULL STATION
	MIRROR LIGHT - 18 W		WALL METHANE GAS DETECTOR
	EXIT SIGNED BOARD : CEILING , MIRROR		WALL CO GAS DETECTOR
	EXIT SIGNED BOARD : CEILING , MIRROR		ISOLATOR UNIT
	LIGHTING SWITCH-ONE GANG, TWO GANG, THREE GANG, FOUR GANG, FIVE GANG		FIRE ALARM CONTROL PANEL OF LOOPS
	CEILING FAN 50"		
	EXTRACT FAN		
	BRACKET FAN		
POWER & CCTV SYSTEMS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	15A SWITCHED SOCKET OUTLET		MONITOR FOR CCTV SYSTEM
	15A SWITCHED SOCKET OUTLET - DUPLEX		CCTV CEILING RECEIVED DOME CAMERA
	SOCKET OUTLET : 15AMP		CCTV CAMERA POWER & CCTV SUPPLY UNIT
	SOCKET OUTLET : 15AMP - DUPLEX		CCTV WALL MOUNTED CAMERA
	SHOWER SOCKET OUTLET TO BS 3082 (LV X-FORMER IN BUILT)		
	TELEVISION SOCKET OUTLET	TELEPHONE SYSTEM	
	HAND DRYER	SYMBOL	DESCRIPTION
	MOTOR CONTROL CENTER, (INDICATES REFERENCE NAME		TELEPHONE SOCKET OUTLET R411 (WALL MOUNTED)
	MAIN DISTRIBUTION BOARD (MDB)		TELEPHONE SOCKET OUTLET R411 (WALL MOUNTED FOR WALL UNIT)
	SUB-MAIN DISTRIBUTION BOARD (SMDB)		TELEPHONE SOCKET OUTLET R411 (FLOOR MOUNTED)
	DISTRIBUTION BOARD (DB)		TELEPHONE JUNCTION BOX
	CONDUIT EMBEDDED IN ROOF SLAB OR WALL		MAIN DISTRIBUTION FRAME
	CONDUIT EMBEDDED IN FLOOR SLAB		MANHOLE FOR TELEPHONE ENTRY
	CIRCUIT RIN TO DB		TELEPHONE UNDERGROUND CABLE
	AC		EARTHING POINT
			CEILING SPEAKER

**PROJECT:**

**JUDO COMPLEX**

**SCALE:**

**N.T.S**

**TITLE:**

**LEGEND**

**ARCHITECT:-**



**SHAHZAD ASSOCIATES**

CONSULTING ARCHITECTS, ENGINEERS & PLANNERS  
 KARACHI OFFICE: 2ND FLOOR ZAYUNA BUILDING, GARDEN ROAD,  
 KARACHI. TEL: 489857/489491, 31562421, 4530754

**DESIGNED BY:**

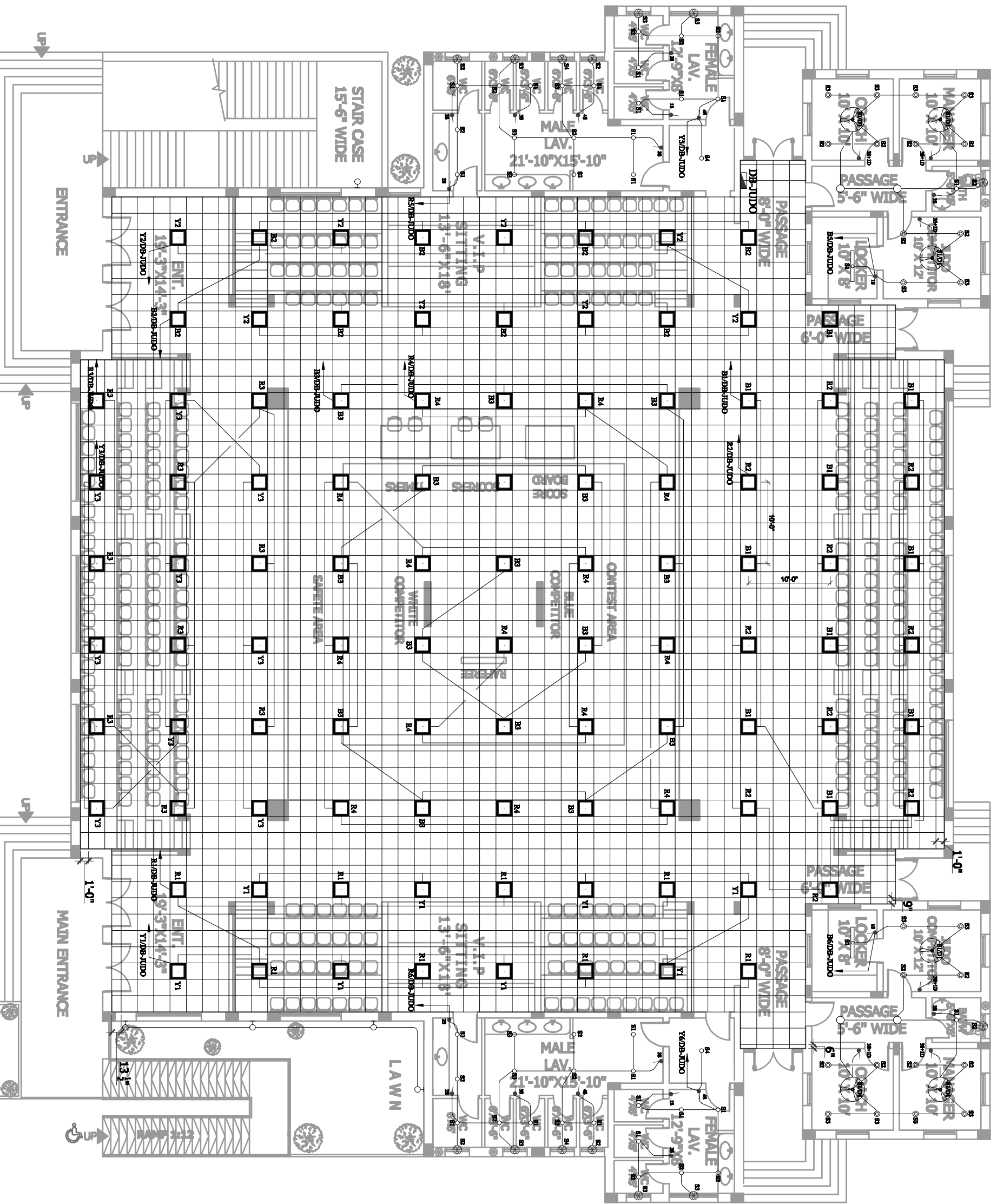
**CADED BY:**

**CHECKED BY:**

**HAFEZULLAH**

**DWG NO.**

**E-01.00**



Project:

**SINDH AGRICULTURE UNIVERSITY (SAU) TANDOJAM**

TITLE:

**JUDO ACADEMY  
GROUND FLOOR PLAN  
LIGHTING LAYOUT PLAN**

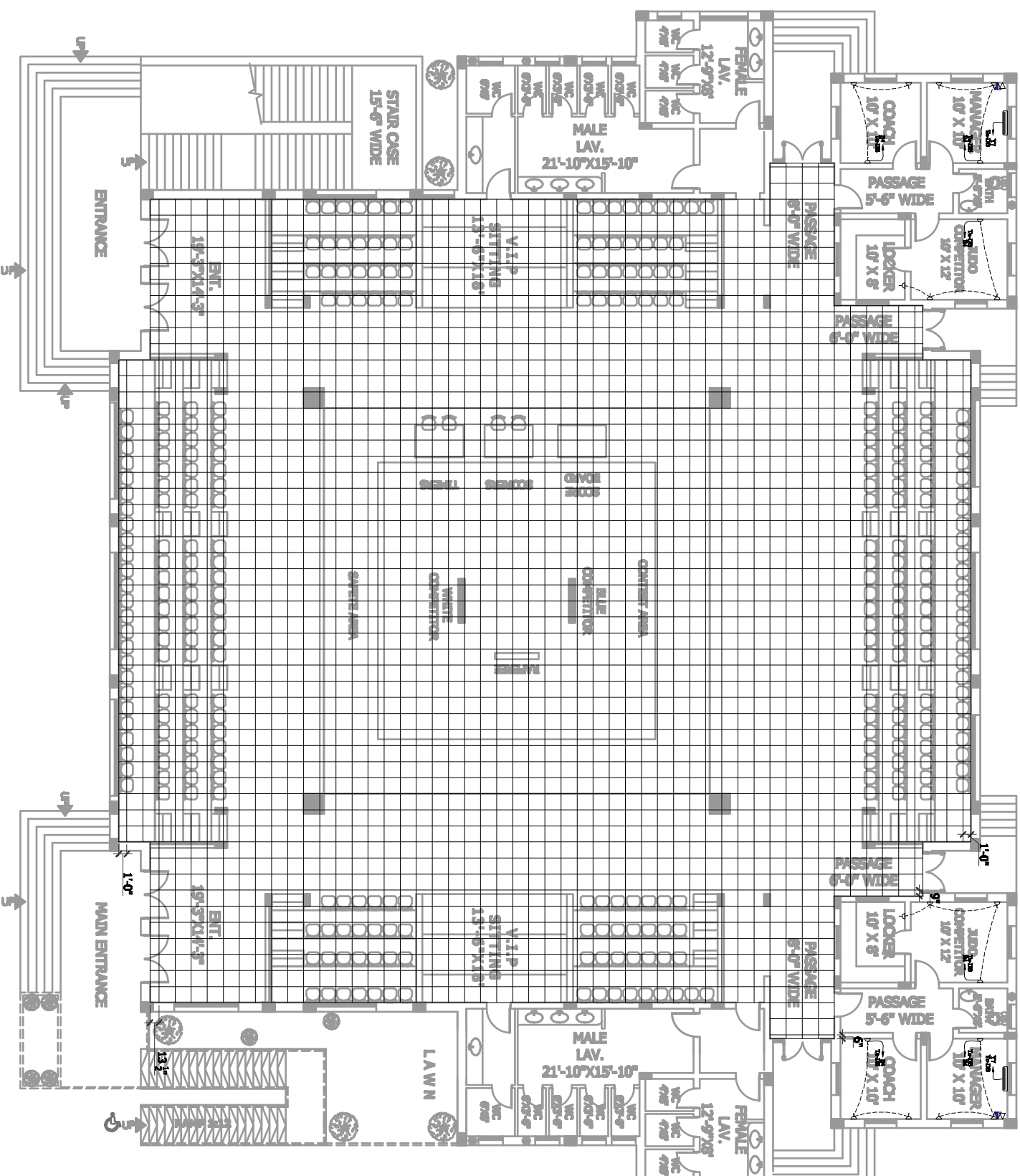
DATE: MAY, 2022

DWG No. E-02

SCALE: N.T.S



**SHAHZAD ASSOCIATES**  
CONSULTING ARCHITECTS, ENGINEERS & PLANNERS  
KARACHI OFFICE: 2ND FLOOR, NAZKATVA BUILDING, SECTOR-5, H.I.7 ROAD,  
KARACHI. TEL: 488857/488491, FAX: 509-0211/458754



JUDO ACADEMY  
GROUND FLOOR PLAN

PROJECT:

# JUDO COMPLEX

SCALE:

N.T.S

TITLE:

POWER LAYOUT

DESIGNED BY:

OAIDULLAH

CADED BY:

OAIDULLAH

CHECKED BY:

HAFEZULLAH

DWG NO.

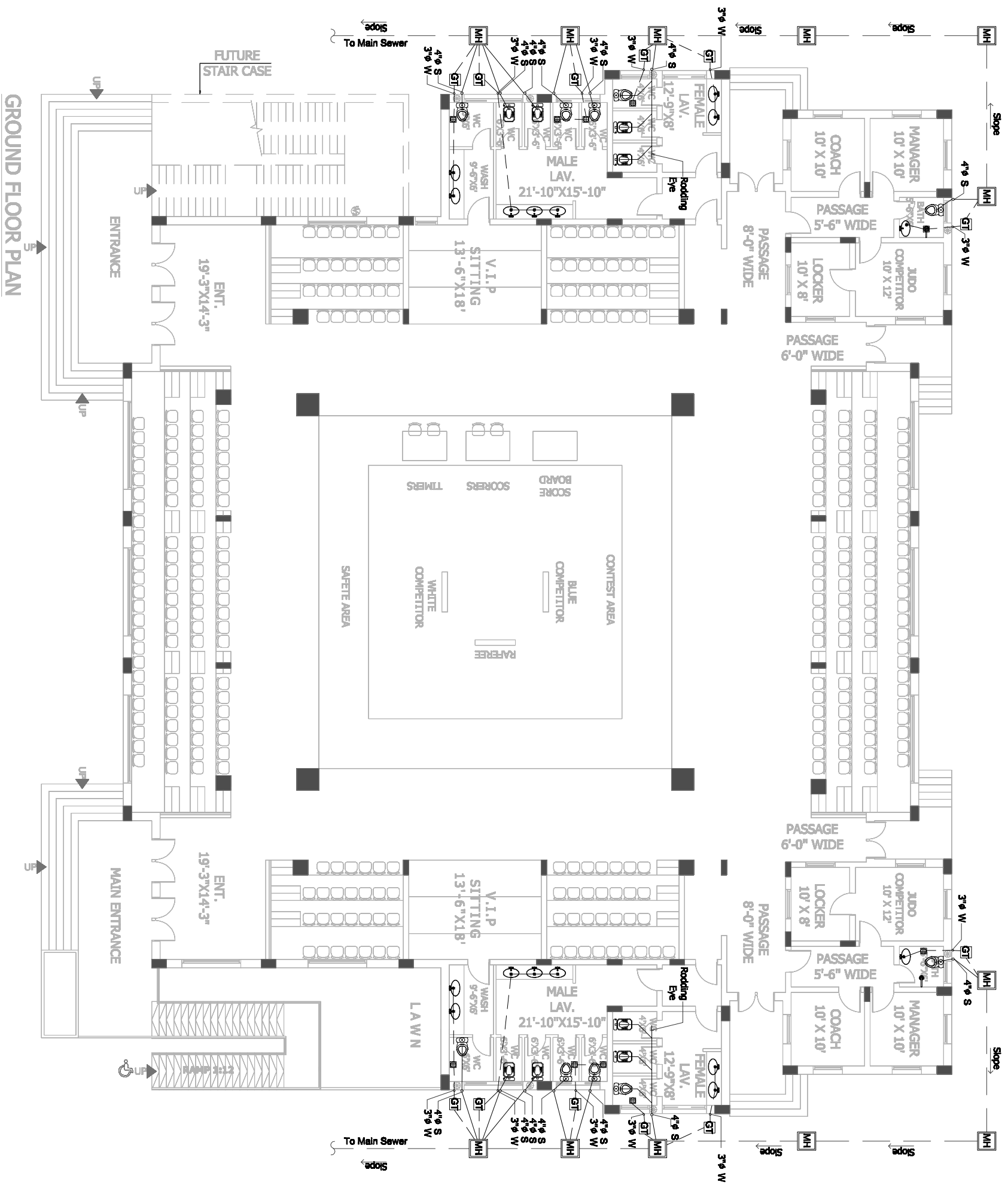
EP-03.00



**SHAHZAD ASSOCIATES**

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GROUND FLOOR PLAN

Project:

**SINDH AGRICULTURE UNIVERSITY (SAU) TANDOJAM**

TITLE:

**JUDO ACADEMY  
GROUND FLOOR PLAN  
SEWORAGE LAYOUT PLAN**

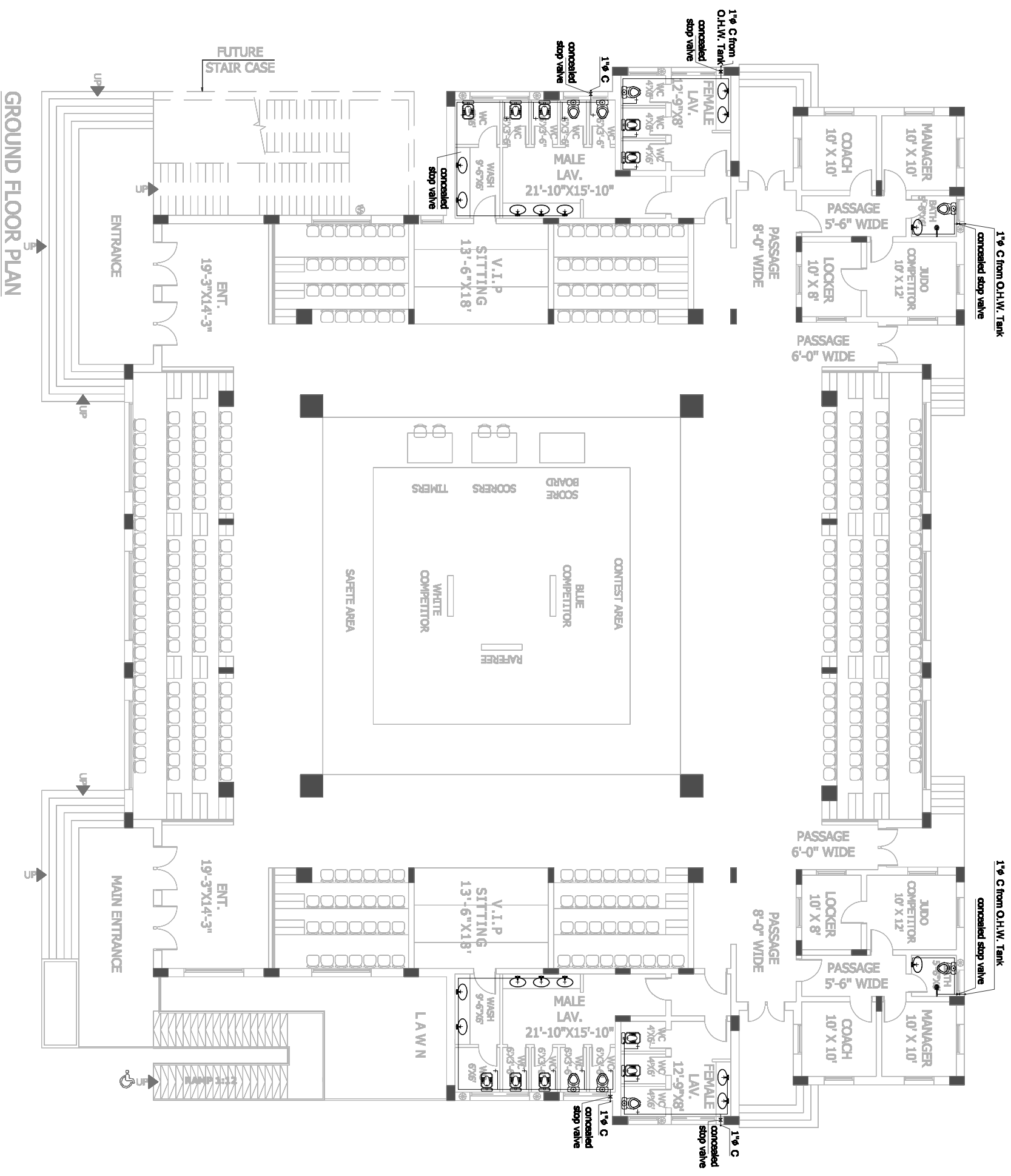
DATE: MAY, 2022

DWG No. P-02

SCALE: N.T.S



**SHAHZAD ASSOCIATES**  
CONSULTING ARCHITECTS, ENGINEERS & PLANNERS  
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KARACHI. TEL: 438887 / 4384971. FAX: 4924011 / 4387154



GROUND FLOOR PLAN

Project:

**SINDH AGRICULTURE UNIVERSITY (SAU) TANDOJAM**

TITLE:

**JUDO ACADEMY  
GROUND FLOOR PLAN  
WATER SUPPLY LAYOUT**

DATE: MAY, 2022

DWG No. P-03






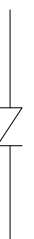






SCALE: N.T.S



**SHAHZAD  
ASSOCIATES**

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## LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SOIL LINE ( UPVC PIPE )		FLOOR TRAP
	WASTE LINE ( UPVC PIPE )		BIB COCK
	DRAINAGE LINE ( UPVC PIPE )		CHECK VALVE
	COLD WATER LINE ( PPRC PIPE )		GATE VALVE
	HOT WATER LINE ( PPRC PIPE )		MANHOLE
	GAS LINE ( G.I PIPE )		PUMP & MOTOR
<b>G</b>	GAS PIPE		GEYSER
<b>S</b>	SOIL PIPE		
<b>W</b>	WASTE PIPE		
<b>C</b>	COLD WATER PIPE		
<b>H</b>	HOT WATER PIPE		
<b>HWR</b>	HOT WATER RETURN		
<b>F/A</b>	FROM ABOVE		
<b>F/B</b>	FROM BELOW		
<b>T/A</b>	TO ABOVE		
<b>T/B</b>	TO BELOW		

**Project:**

**SINDH AGRICULTURE UNIVERSITY (SAU) TANDOJAM**

**TITLE:**

**JUDO ACADEMY  
LEGENDS**

**DATE:** MAY, 2022

**DWG No.** P-01

**SCALE:** N.T.S



## GENERAL NOTES

- 01 - These notes are applicable to all structural drawings, unless mentioned otherwise.
- 02 - All structural drawings to be read in conjunction with Architectural drawing, any discrepancy must be referred to Architect / Engineer.
- 03 - All concrete except for columns, should develop 28 days Cubical strength of 3000 Psi
- 04 - All concrete for columns should develop 28 days Cubical strength of 3750 Psi.
- 05 - Reinforcing steel shall be deformed bars conforming to A.S.T.M. specification A615, Grade 60 (Fy = 60000 Psi.) .
- 06 - Provide minimum concrete cover to steel as follows :-  
(A) - Foundation Bott = 3" , sides & top 2" (B) - Columns = 1-1/2"  
(C) - Beams = 1" to 1.5" (D) - Slabs = 3/4" .
- 07 - S.R.cement should be used in all concrete upto plinth level.
- 08 - Layout should be in accordance with the architectural drawings.
- 09 - No hand mixing is allowed.
- 10 - All R.C.C. works shall be continuously moist cured for 07 days.
- 11 - Form work from R.C.C. shall be removed accordance to the time indicated below:-  
(A) - Columns / Beams sides ----- after 48 hours of pouring.  
(B) - Beams bottom ----- after 28 days of pouring.  
(C) - Slabs ----- after 21days of pouring.
- 12 - Cutting lapping & placement of bars to be as per ACI-CODE .
- 13 - Contractor must prepare at least 06 cubes for each pour get it tested for 07 and 28 days crushing strength and submit the report to consultants.
- 14 - Curing shall be carried out by pounding or covering the exposed concrete members & form work by wet jute / Hessian cloth which shall be kept permanently wet.
- 15 - Design of concrete mixes of quality concrete, grading of coarse or fine aggregates, preparation of graphs report with full references and control cubes slump test.
- 16 - The Bearing capacity of soil is taken as 1.10 TSF at 5'-0" below natural ground level, Which is conducted by "GEO TECH CONSULTANT May 2022.
- 17 - The building structure is designed for G+1 STORIES.

Project:

**SINDH AGRICULTURE  
UNIVERSITY (SAU) TANDOJAM**

JUDO ACADEMY

DATE: NOV 2021

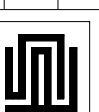
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DETAIL OF FOUNDATION

DRAWN BY: USAMA

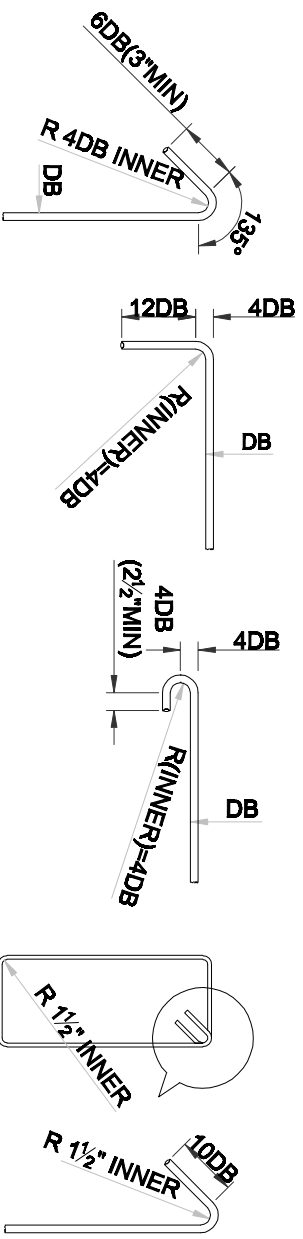
GENERAL NOTES

DWG.NO: ST-01



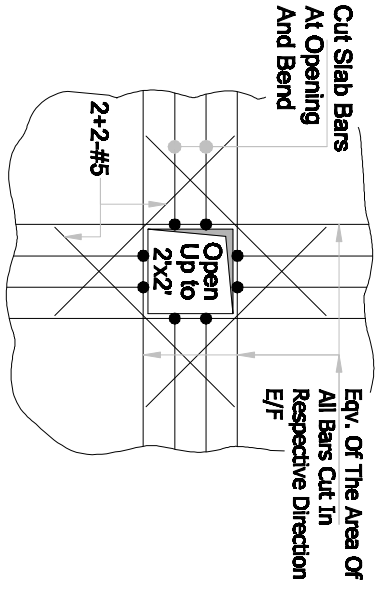
**SHAHZAD  
ASSOCIATES**

CONSULTING ARCHITECTS, ENGINEERS & PLANNERS  
KARACHI OFFICE: 2ND FLOOR FARZANA BUILDING, SHAHED-BADLIAT ROAD,  
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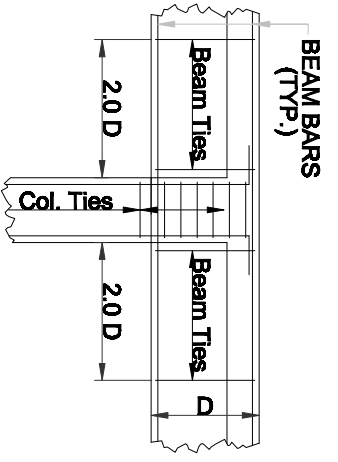


STANDARD HOOK DETAILS

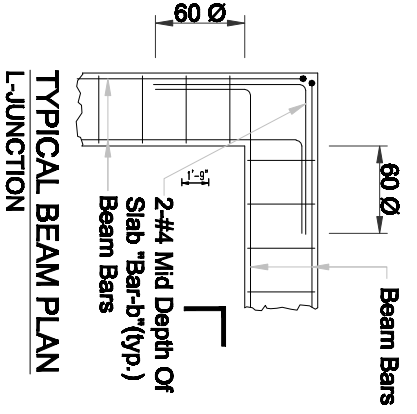
RING DETAIL



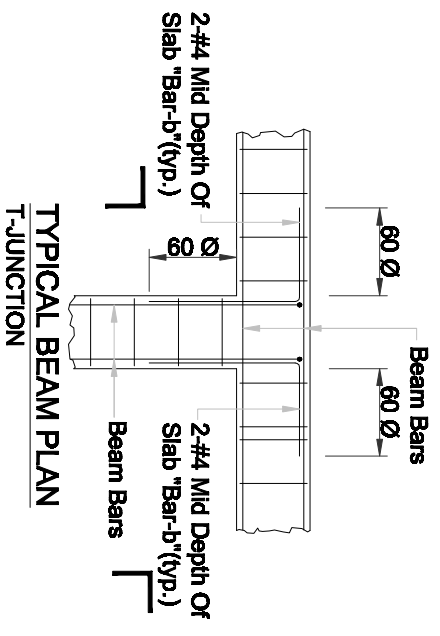
TYPICAL OPENING IN SLAB



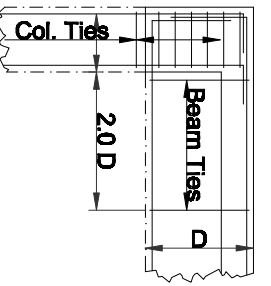
TYPICAL BEAM/COLUMN CONNECTION  
INTERNED. CONNECTION AT ROOF LEVEL



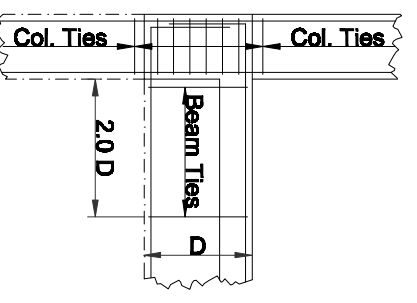
TYPICAL BEAM PLAN  
L-JUNCTION



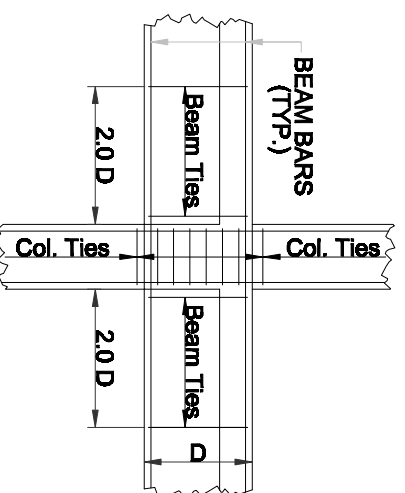
TYPICAL BEAM PLAN  
T-JUNCTION



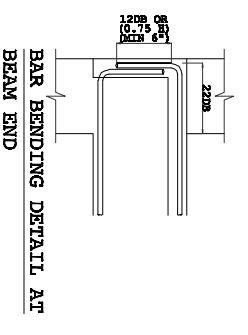
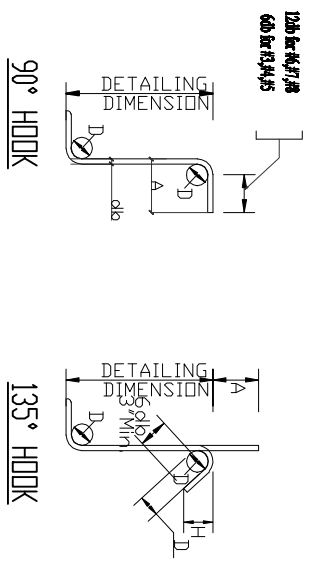
TYPICAL BEAM/COLUMN CONNECTION  
CORNER CONNECTION AT ROOF LEVEL



TYPICAL BEAM/COLUMN CONNECTION  
INTERMEDIATE CONNECTION AT EDGE



TYPICAL BEAM/COLUMN CONNECTION  
INTERMEDIATE CONNECTION



SLAB THICKNESS	DISTRIBUTION REINFORCEMENT
5"	#3@10" C/C
6"	#3@10" C/C
7"	#3@9" C/C
8"	#3@8" C/C
10"	#4@9" C/C
12"	#4@9" C/C
14"	#4@8" C/C

Project:

**SINDH AGRICULTURE UNIVERSITY (SAU) TANDOJAM**

JUDO ACADEMY

TYPICAL DETAIL

DATE: NOV 2021

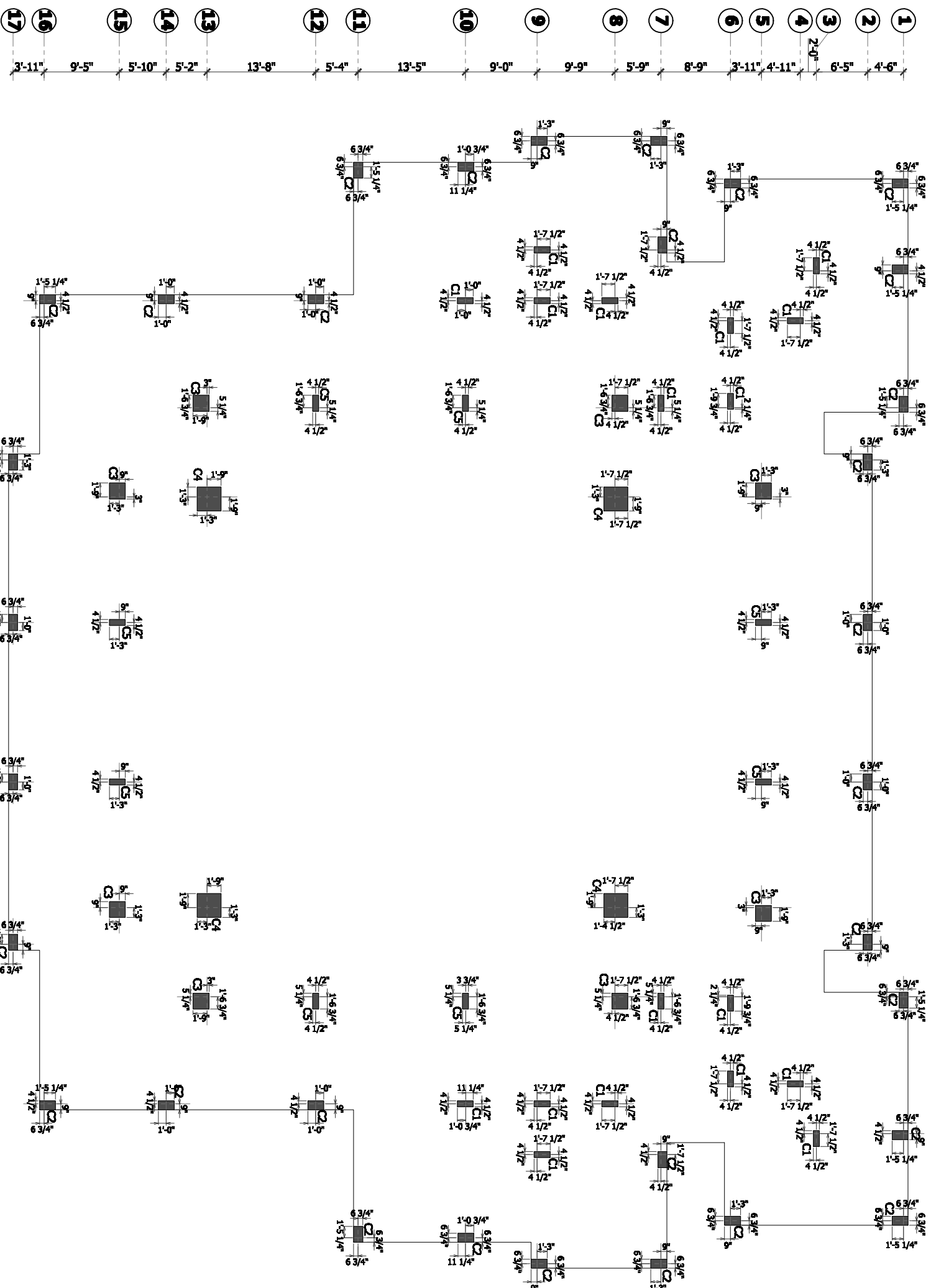
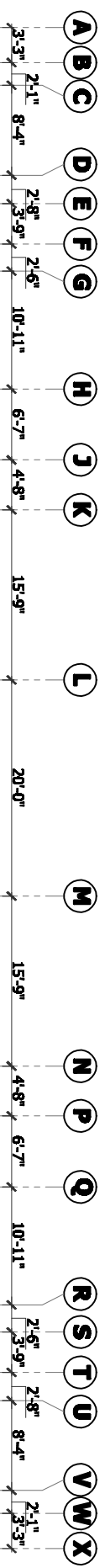
SCALE: N.T.S

DRAWN BY: USAMA

DWG.NO: ST-02

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COLUMN LAYOUT PLAN  
JUDO ACADEMY

Project:

SINDH AGRICULTURE  
UNIVERSITY (SAU) TANDOJAM

JUDO ACADEMY

COLUMN LAYOUT PLAN

DATE: NOV 2021

SCALE: N.T.S

DRAWN BY: USAMA

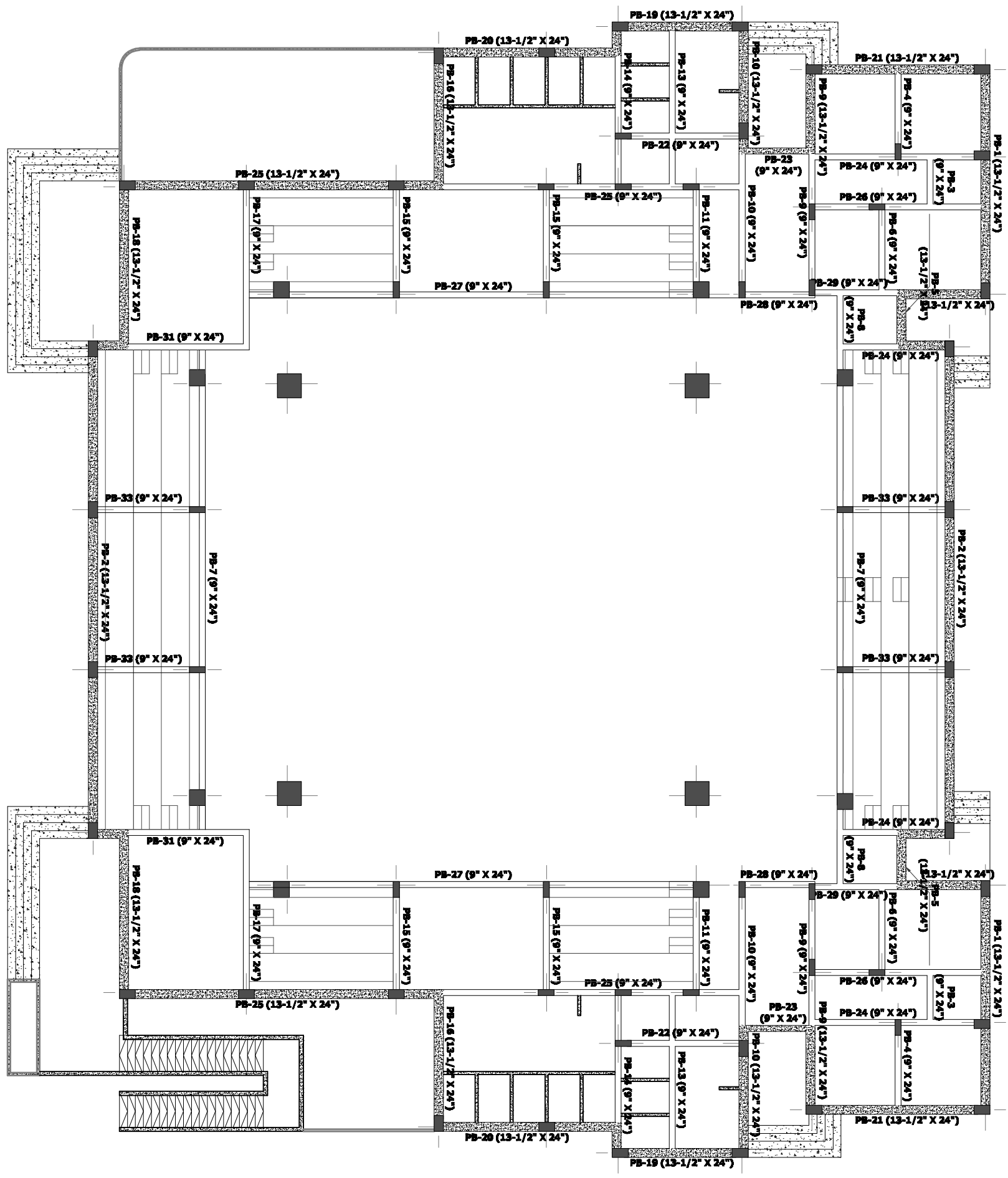
DWG.NO: ST-03



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A B C D E F G H J K L M N P Q R S T U V W X

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17



PLINTH BEAM FRAMING PLAN  
JUDO ACADEMY

Project:

SINDH AGRICULTURE  
UNIVERSITY (SAU) TANDOJAM

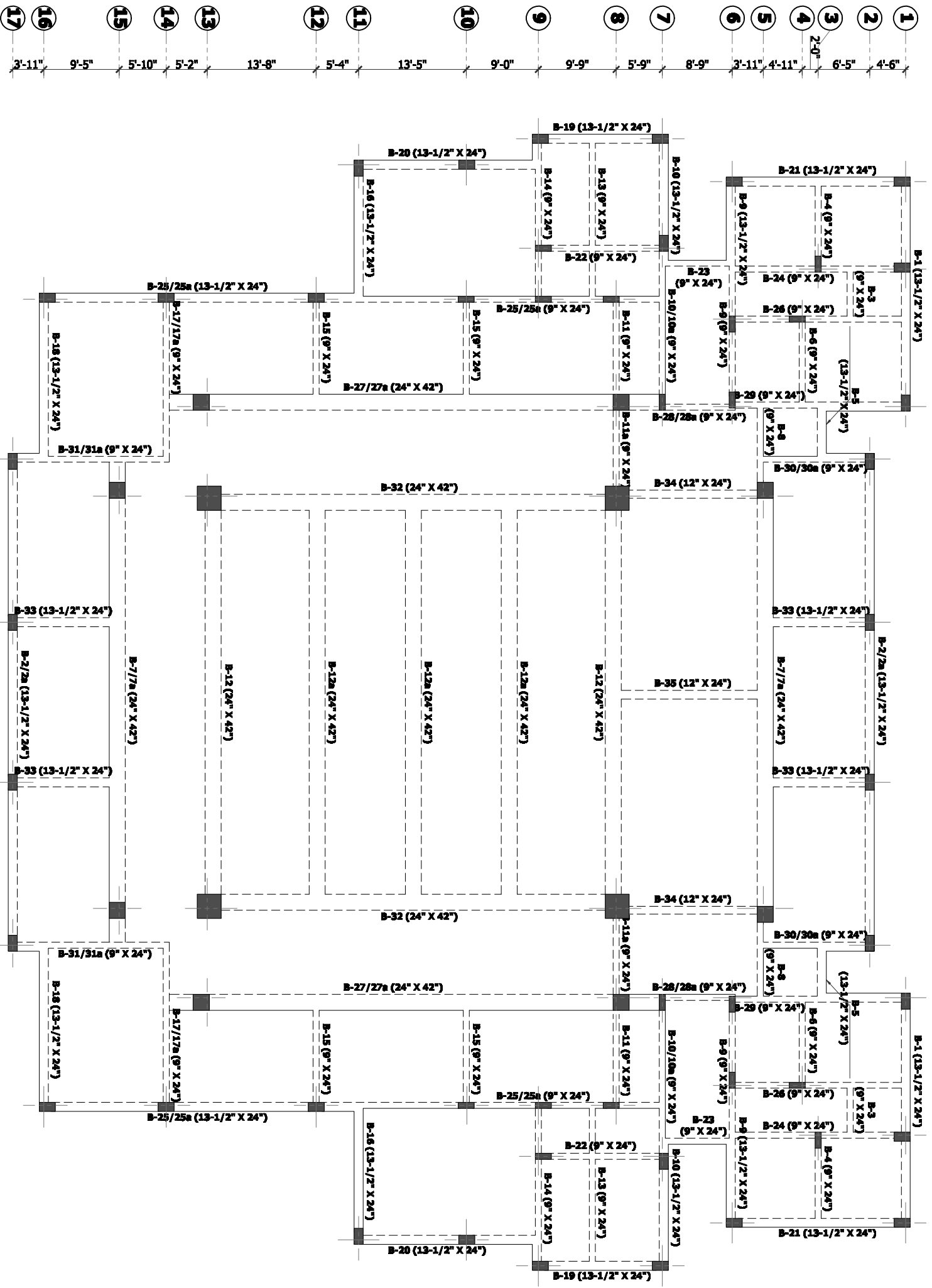
JUDO ACADEMY  
PLINTH LEVEL PLAN

DATE: NOV 2021  
SCALE: N.T.S  
DRAWN BY: USAMA  
DWG.NO: ST-04

**SHAHZAD ASSOCIATES**  
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A B C D E F G H J K L M N P Q R S T U V W X



ROOF BEAM FRAMING PLAN  
JUDO ACADEMY

Project:

**SINDH AGRICULTURE  
UNIVERSITY (SAU) TANDOJAM**

JUDO ACADEMY

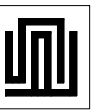
BEAM FRAMING PLAN

DATE: NOV 2021

SCALE: N.T.S

DRAWN BY: USAMA

DWG.NO: ST-05



**SHAHZAD  
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**SINDH AGRICULTURE UNIVERSITY (SAU) TANDOJAM**  
**JUDO ACADEMY**

**LIST OF DRAWINGS**  
**TENDER DRAWINGS**

SHEET NO	DESCRIPTION	SHEET NO	DESCRIPTION
<b>ARCHITECTURE DRAWINGS</b>			
AR-01	GROUND FLOOR PLAN	PL-01	LEGENDS
AR-02	ROOF PLAN	PL-02	GROUND FLOOR SEWERAGE LAYOUT PLAN
AR-03	SECTION AT A-A & B-B	PL-03	GROUND FLOOR WATER SUPPLY LAYOUT PLAN
AR-04	FRONT ELEVATION & BACK ELEVATION	PL-04	ROOF FLOOR WATER SUPPLY LAYOUT PLAN
AR-05	SCHEDULE OF DOORS & WINDOWS		
<b>STRUCTURE DRAWINGS</b>			
ST-01	DETAIL OF FOUNDATION GENERAL NOTES	<b>ELECTRICAL DRAWINGS</b>	
ST-02	TYPICAL DETAIL	EL-01	LEGENDS
ST-03	COLUMNS LAYOUT PLAN	EL-02	LIGHTING LAYOUT FOR GROUND FLOOR
ST-04	PLINTH LEVEL PLAN	EL-03	POWER LAYOUT FOR GROUND FLOOR
ST-05	GROUND FLOOR BEAM FRAMING PLAN		