

**Sui Northern Gas Pipelines Limited (SNGPL)**

“Design and Preparation of  
Tender Document Including Site Investigations”

## TENDER DOCUMENTS

For

**Construction of Two Meter Halls with Attached Washroom/Office Including External Works at Regional Meter Shop Multan**

**September – 2025**



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Custom House, University Road, Peshawar.





## Quality Control Sheet



### QUALITY CONTROL SHEET

DOCUMENT	<b>Tender Documents</b> for Construction of Two Meter Halls with Attached Washroom/Office Including External Works at Regional Meter Shop Multan			
PROJECT	<b>"Design and Preparation of Tender Document Including Site Investigations"</b>			
CODE	P22-185			
AUTHOR	18.01.2025			
VERIFIED	31.01.2025			
RECIPIENT	<b>Sui Northern Gas Pipelines Limited (SNGPL)</b>			
NOTES				





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# CONTRACTOR HSE STATEMENT

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## CONTRACTOR HSE STATEMENT



**SUI NORTHERN GAS PIPELINES LIMITED**

**Doc. #SNGPL-GPR013-F001**

Issue # 01

Issue Date

Page 1 of 5

### Contractor HSE Statement

The Contractor shall prepare and maintain information including a clear method statement regarding Contract/Sub-Contract activities, which outline the work to be undertaken and the method (s) for minimizing and maintaining environmental impacts, OH&S Hazards and maintaining compliance with HSE regulation.

To assist in organizing and maintaining information, background information section has been included (section I, II, III) Section can be modified or deleted as required when requesting a method statement from Contractors/Sub-Contractors.

**SNGPL's Personnel to Complete Section I, II, and III**

**Suppliers to Complete Section IV, V, and VI**

**Section I Your Information: (type or print)**

Name	
Phone Number	
Fax Number	
Dept Name	

**Section II Requisition Information:**

Requisition Number	
Project Number: (If applicable)	

**Section III Service or Activity to be Performed:**

Material/Chemical: (Production/Non-production)	Paint Solvent Sealer	Treatment Chemicals Lubricants, Oils, Greases Gasoline	Janitorial Material Other (specify)_____ Other (specify)_____
Facilities/ Construction:	Ditching Electrical Paint Structural	Roofing Mechanical HVAC	General Contractor Arch/Engr/Consulting Other (specify)_____
Services: (Includes Environmental Services)	Janitorial Security Maintenance	Emergency Response Env. Consulting Paint Booth Cleaning	Waste Management Other (specify)_____
Containerization:	5 gal. or less Drums Bulk Tanks	Type of Contract	Commodity Management On-site Manager Provided Total Cost Contract





**SUI NORTHERN GAS PIPELINES LIMITED**

**Doc. #SNGPL-GPR013-F001**

Issue # 01

Issue Date

**Contractor HSE Statement**

Page 2 of 5

**Section IV. Supplier/Contractor Information:**

Current Supplier/Contractor to this Facility

New Supplier/Contractor to this Facility

Current Involved in other Facility Project(s)

List Project(s): \_\_\_\_\_

**(Complete Information in table below):**                      **(type or print)**

Name:	
Address:	
City & Province:	
Phone Number:	
Fax Number:	
President/General Manager/CEO etc.	
Facility Site Coordinator:	
Email Address:	
Phone Number:	
Mobile Number:	
Fax Number:	
Pager:	
24 Hour Emergency Number:	





SUI NORTHERN GAS PIPELINES LIMITED

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Contractor HSE Statement

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**Sub-Contractor Information: (List supplier/Contractor not identified) (type or print)**

Type	Firm Name
Architectural	
Mechanical	
Electrical	
Heavy Vehicles	
Industrial Services	
Painting	
Roofing	
Architectural/Engineering /Consulting Firm	
Sampling/Testing	
Chemical Supplier	
Other (specify)	
Scrap	
Waste Disposal	
Demolition Disposal	

*Note: it is strongly recommended that you have your sub-contractor and suppliers involved at this facility should complete a separate HSE briefing package for the facility's review.*





**SUI NORTHERN GAS PIPELINES LIMITED**

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Issue Date

**Contractor HSE Statement**

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**Section V. Contractor Method Statement:**

Supplier/Contractor is financially responsible for on-site HSE remediation actions resulting from incidents involving their employees and sub-contractors. To minimize the risk of environmental accidents, please review and initial the items contained in the HSE Management Basics Table below.

Health, Safety and Environment Management Basics		Tick ( )
1	Contractor will ensure that the <ul style="list-style-type: none"> <li>Health of its employees is protected.</li> <li>All activities carried out for the execution of the job are safe.</li> <li>Compliance is met with all relevant laws and regulations.</li> <li>All HSE (Health, Safety and environment) procedure of the Company are implemented.</li> <li>Safe working environment is provided to its employees.</li> </ul>	
2	Contractor will take all necessary steps to minimize the hazards associated with the job. Appropriate personal protective equipment should be provided to the employees where hazards exist.	
3	All incidents resulting in Dangerous Occurrence minor or major injury fire vehicle accidents and environmental incidents are to be reported to Company with 24 hours.	
4	The Contractor is to make his own arrangements for treating injuries to his employees. In the event, Contractor's employee is injured while working for the Company. It is the Contractor's responsibility to notify the company representative immediately and to report the circumstances of injury.	
5	Contractor's mobile equipment such as trucks crane welding machines, etc must be maintained in good working conditioned. Contractor's trucks and other mobile equipment should be operated in such a way that material they are carrying does not fall off the equipment on to the roads. If repairs are required or vehicles become immobilized arrangement must be made to correct the situation with additional outside help.	
6	Prior to the start of work a certificate from a competent authority is to be given to the site in charge by the Contractor stating that all mobile heavy equipment are in good working conditioned. Only licensed and designated qualified people shall operate contractor's equipment.	





<b>Health, Safety and Environment Management Basics</b>		<b>Tick ( )</b>
7	Company equipment must not be handled or tampered with by Contractor. The Company representative may grant permission to the Contractor on specific conditions to operate Company equipment if emergency conditions so require.	
8	When doing work involving excavation Contractors must not be damaged or break into or otherwise open any underground piping. Extreme care must be exercised in this respect while excavating with power driven equipment. If lines are accidentally damaged notify the company representative immediately.	
9	All excavation made by Contractors must be fenced barricaded or otherwise protected so as to prevent personnel from slipping or falling into them.	
10	Drawing/Excavation include safety talk notified for facilitating contract employees ever during transportation by Cos TPT.	
11	The authorized Company executive will issue a permit appropriate for any work to be done by the Contractor at Company designed sites where work permit procedure is applicable. After receiving permit for work the Contractor shall be guided by Company rules and applicable laws in performing his work.	
12	Contractor shall provide to all their staff the relevant PPE`s as specified by the Company against each job. Contractor staff will do compliance.	
13	Contractor`s job sites must be kept reasonably clean and free of rubbish and debris which may create tripping or fire hazard. Upon completion the Contractor shall leave the area in a clean and orderly manner, removing all Contractor`s debris, equipment and excess material.	
14	Contractor shall dispose of all the waste generated from its activity in environment friendly manner as described in Pakistan Environment Protection Act, 1997.	





**SUI NORTHERN GAS PIPELINES LIMITED**

**Doc. #SNGPL-GPR013-F001**

Issue # 01

Issue Date

**Contractor HSE Statement**

Page 5 of 5

**Section VI. Supplier/Contractor Certification: (review and sign)**

I have reviewed and understand the information contained in this document. I also understand that SNGPL's HSE Personnel have the right to inspect our activities and those of our Suppliers/Contractors with regards to our on-site activities. I further understand that activities pertaining to service and/or maintenance contracts may only require submission of this form on an annual basis.

Name	
Title	
Signature	
Date	





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# FORM OF TENDER

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## FORM OF TENDER

Notes: - (The Appendix forms part of the Tender. Tenderers are required to fill up all the blank spaces in this, Tender Form and carefully review the Appendix).

To,  
The Managing Director,  
Sui Northern Gas Pipelines Ltd,  
Sui Gas House, 21-Kashmir Road, Lahore.

Dear Sir,

Having examined the Drawings, Conditions of Contract, Specific Specifications, for the execution of the above-named works, we, the undersigned, offer to construct, complete and maintain the whole of the said works in conformity with the said Drawings, Conditions of Contract, Specific Specifications and Bid sheet for the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) or such other sums as may be ascertained in accordance with the said conditions.

2. I/We undertake if my/our Tender is accepted to commence the works within fifteen (15) days of receipt of the Company's (SNGPL) order to commence, and to complete and deliver the whole of the works comprised in the contract within the time mentioned in Appendix "A" calculated from the last date of commencement time.
3. If my/our tender is accepted, I/we will obtain the guarantee of Scheduled Bank/ approved Insurance Company (SNGPL) to be jointly and severally bound with us in a sum not exceeding ten (10%) percent of the above-named sum for the due performance of the Contract under the terms of Bond to be approved by you.
4. I/We agree to abide by this Tender for the period of One hundred and twenty (120) days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Unless and until a formal Agreement is Prepared and executed, This Tender, together with your written acceptance thereof, shall constitute a binding Contract between us.
6. I/We understand that you are not bound to accept the lowest or any tender you may receive.
7. As a guarantee for the performance of the undertaking and obligations of this tender, we submit herewith Earnest money amounting to Rs. 120,000 in the form of original demand draft / pay order / deposit-at-call receipt in your favour and made payable to you, without any reference to us, and valid for





one hundred and twenty days (120) from the date set for opening of Tender.

Dated: \_\_\_\_\_ day of \_\_\_\_\_, 2025

Signature \_\_\_\_\_ in the capacity of \_\_\_\_\_

Authorized to sign tenders for & on behalf of \_\_\_\_\_  
(IN CAPITAL LETTERS)

WITNESS:-

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

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

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

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





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# FORM OF AGREEMENT

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## FORM OF AGREEMENT

This AGREEMENT made on \_\_\_\_\_ day of \_\_\_\_\_ 2025  
between \_\_\_\_\_  
\_\_\_\_\_ (hereinafter called "The  
Employer") of the one part and \_\_\_\_\_  
(hereinafter called "The Contractor") of the other part.

Whereas the Employer is desirous that certain Works should be constructed  
viz. \_\_\_\_\_ and has accepted a  
Tender by the Contractor for the construction completion and maintenance of such  
Works.

NOW THIS AGREEMENT WITNESSED as follows:

1. in this Agreement words and expressions shall have the same meaning as are respectively assigned to them in the Condition of Contract herein after referred to.
2. the following documents shall be deemed to form and be read and construed as part of this Agreement viz:
  - a) the said Agreement and Tender Documents
  - b) the Drawings and further drawings
  - c) the Specific Specification
  - d) the Bid Sheet and mode of Payment
  - e) the Letter of Acceptance
  - f) the correspondence and instructions issued from time to time during execution of works.
3. in construction of the payment to be made by the Employer to the Contractor as herein after mentioned the Contractor hereby covenants with Employer to execute complete and maintain the works in conformity in all respects with the provisions of the contract.
4. the employer hereby covenants to pay the Contractor in consideration of the construction completion and maintenance of the Works at the contract price at the times and in the manner prescribed by the Contract.





5. Witness whereof the parties hereto have caused their respective Common Seals to be hereunto affixed (or hereunto set their respective hands and seals) the days and years first above written

**Signed By**

**Managing Director**  
**Sui Northern Gas Pipelines Ltd.**  
**21 Kashmir Road Lahore**

**Contractor**  
Signature with Seal

**IN THE PRESENCE OF**

Name \_\_\_\_\_  
Signature \_\_\_\_\_  
Designation \_\_\_\_\_

Name \_\_\_\_\_  
Signature \_\_\_\_\_  
Designation \_\_\_\_\_

**WITNESS**

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Occupation \_\_\_\_\_  
Address \_\_\_\_\_

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Occupation \_\_\_\_\_  
Address \_\_\_\_\_





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## APPENDIX – A

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### APPENDIX – A

1	Earnest Money/Bid Security	<b>Rs. 120,000/- Rupees (Must be submitted at the office of incharge (Civil), Civil Construction Department, 2<sup>nd</sup> Floor, Gas House 21 Kashmir Road Lahore in hard form along with Hard Copy of Tender Documents Signed &amp; Stamped by the Contractor before Tender Submission Time otherwise the bid would be declared non-responsive).</b> <i>Must be submitted with</i>
2	Amount of Performance Bond or Guarantee	<b>Ten Percent (10%)</b> of the amount mentioned in the acceptance letter/work order (accepted amount) to be submitted within 15 days of issuance of work order issued by SNGPL approved Insurance Company <i>with Technical Bid. SNGPL</i>
3	Validity of Performance Bond or Guarantee	<b>Till satisfactory completion</b> of the project & issuance of completion certificate
4	Validity Period of Bid	<b>120 days</b> from the date of opening of Tender
5	Time for Completion <i>Six SNGPL</i>	<b>Nine (06) Months</b> for whole of the project including Mobilization Period of 15 days
6	Amount of Liquidated Damages	<b>0.2%</b> of the accepted amount/final cost of project per day for each day of delay
7	Limit of Liquidated Damages	<b>10%</b> of the total accepted amount or final cost of the project
8	Period of Maintenance	<b>Twelve (12) Months</b> after issuance of completion certificate
9	Percentage of Retention Money	<b>Ten percent (10%)</b> of gross amount of each running bill
10	Limit of Retention Money	<b>Five percent (05%)</b> of FPC Amount
11	Payment of Retention Money	After successful completion of maintenance period and/or satisfactory rectification of all defects/deficiencies pointed out during maintenance period
12	Time within which payment to be made after Certification <i>Sixty (60)</i>	<b>Forty-five (45)</b> working days of SNGPL Head Office
13	Mode of Payment	<b>The Partial payments (PPC`s)</b> shall be processed on submission of claims by the contractor on completion of any work order activity (s) as per <b>Mode of Payment/ Payment Schedule</b>





14	Tender Documents Fee	<b>Rs. 2500/-</b> against Pay order in the Favour of M/s. Sui Northern Gas Pipelines Limited (Non-refundable) Must be submitted at the office of incharge (Civil), Civil Construction Department, 2 <sup>nd</sup> Floor, Gas House 21 Kashmir Road Lahore before tender submission date and time. Without Submission of Tender Fee, Bid would be declared non-responsive.
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## **SPECIAL CONDITIONS**

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SNGPL desires construction of the following works thru competent Civil Contractor to carry out the complete Civil & MEP construction works as per BOQ, Specifications and Drawings given in the Tender Documents.

**Construction of Two Meter Halls with Attached Washroom/Office Including  
External Works at Regional Meter Shop Multan**





## SPECIAL CONDITIONS

The bid is being invited as per 'Single Stage-Two Envelope' procedure, in Compliance of PPRA Rule No. 36(b). If the bidder fails to fulfill any of following mandatory requirements, his bid will be considered as nonresponsive and shall be rejected without opening his 'Financial Proposal'.

1. The bid shall comprise a single package with only the name of work, containing the following in two separate envelopes:
  - a. 'Technical Proposal'
  - b. 'Financial Proposal'

The envelopes shall be marked as 'TECHNICAL PROPOSAL' and 'FINANCIAL PROPOSAL' in bold and legible letters to avoid confusion.

2. Initially, only the envelope marked as 'TECHNICAL PROPOSAL' shall be opened. The envelope marked as 'FINANCIAL PROPOSAL' shall be retained in the custody of SNGPL without being opened.
3. SNGPL shall evaluate the 'Technical Proposal' in a manner prescribed in clause 4 below, without reference to the price and reject any bid which does not conform to the specified requirements.
4. The 'Technical Proposal' must contain the following:
  - i. Certificate of registration of bidder with Pakistan Engineering Council in the relevant category valid for current year or copy of last/previous year along with receipt of amount submitted for renewal of registration.
  - ii. Copy of five pages of HSE Contractor Statement given in tender documents are required to be filled, stamped and signed by bidders and submit along with Technical Proposal.
  - iii. National Tax Number along with copy of certificate.
  - iv. Copy of Professional Tax Clearance Certificate.
  - v. Copy of Provincial Sales Tax (PST) Registration.
  - vi. Following relevant paper must be provided in respective cases:-
    - Name of the bidder
    - Type of ownership i.e. Proprietor/Partnership/Private Limited Company/Public Limited Company
    - Copy of NIC in case of single proprietor
    - Copy of partnership deed in case of partnership
    - Copy of Article of Association for Private/Public Limited Companies
  - vii. **Complete data of the Contractor regarding projects of civil works (structure/Building/Rehabilitation/strengthening Works, at least 01) each of worth not less than five (05) million during last five years with**





- proof (work order & completion certificate). The same will be vetted by the Consultant before opening of the Financial Bids.**
- viii. **Complete data of the Contractor regarding projects of civil works (structure/Building/Rehabilitation/strengthening Works, at least 01) each of worth not less than five (05) million in hand with proof (work order & Agreement). The same will be vetted by the Consultant before opening of the Financial Bids.**
- ix. **Proof of personnel & equipment capabilities and financial soundness (available bank credit line and working capital in last three years).**
5. The 'Financial Proposal' should contain the tender documents with each page signed along with duly filled in 'Bid Sheet'.
6. After the submission of bid, no amendments shall be permitted.
7. The 'Technical Proposals' shall be evaluated after opening and the 'Financial Proposal' of bids found technically nonresponsive shall be returned un-opened to the respective bidders. Thereafter the 'Financial Proposals', of the technically accepted bids only, will be opened in the presence of concerned bidders.
8. In case of any conflict between the Design Drawings and the Technical Specifications, the Drawings shall supersede the Specifications.
9. If excess in the quantities of any item of work is required either due to requirement of the client departments of SNGPL or due to some other unavoidable site conditions, the same should be informed by the Contractor well in time in order to seek formal written approval from the INCHARGE (CIVIL). The Contractor should also quantify and inform the increase in cost of work due to any such excess in quantity of any item. Upon receipt of above stated intimation of the Contractor, the Company will issue formal written permission to the Contractor for proceeding ahead in the matter accordingly.
- The Contractor has no authorization to exceed the quantities of different items given in the work order without prior written permission of the INCHARGE (CIVIL). If any Contractor executes the construction work in such a way that causes excess in quantities of any item of work, over and above the work order quantities without prior written permission of the INCHARGE (CIVIL), the Company may refuse for payment against such excess quantities.
10. If the construction site is not cleared and handed over to the Contractor by the Company within 60 days of issuance of work order, the Contractor may withdraw his offer and in such case the Earnest Money and/or Performance Bond submitted by the Contractor will be returned by the Company.
11. Complete HSE (Health Safety and Environment) Contractor Manual is available at SNGPL website [www.sngpl.com.pk](http://www.sngpl.com.pk) which must be studied for true implementation during execution of work. Implementation of HSE procedures shall be ensured as per prevailing HSE policy of SNGPL during execution of works.





12. The Contractor must ensure the HSE Management Plan (safe system of works) at site to avoid any untoward incident including but not limited to following:
- i. Detail plan of activities to be carried out from start to execution/commissioning of subject project for example scaffolding, load lifting, work at height, use of mechanical equipment (moveable and immovable) etc. Detail JSA/Risk Assessment of the associated HSE hazards of each activity along with control measures.
  - ii. Detail of certified machinery along with trained/experienced operators. Certificate of operators will be required.
  - iii. Mechanism of effective HSE supervision of the project with dedicated HSE Engineers/Officers and staff.
  - iv. Firefighting plan with detail of firefighting staff capabilities and equipment.
  - v. First aid plan with detail of first aiders staff capabilities and equipment.
  - vi. Mechanism of manual and mechanical loading/unloading.
  - vii. Detail of accident/incident statistics of the contracted company.
  - viii. Detail of barricades, i.e., caution boards, hard barricades, barricading tape etc.
  - ix. Detail of PPE's.
  - x. Emergency Response Plan.
  - xi. Training and safety talks mechanism.
13. The Contractor shall be liable to pay compensation to his staff / labour in case of any major injury, disability and fatality category wise as under:

a.	In case of major injury (Injury leading to temporary disablement)	Payment of ½ of the monthly wages till the recovery of temporary disablement or for a maximum period of one year, whichever is less. Payment of 1/3 of the monthly wages till the recovery of chronic ill health / disease or for a maximum period of 5 year, whichever is less.
b.	In case of Disability (Permanent)	Rs. 500,000/-
c.	Fatality	Rs. 500,000/-

14. Failure to compliance against HSE initiative at operational sites will lead to blacklisting of a Contractor through following disciplinary action.

e.	1st Violation	Warning-letter
f.	2nd Violation	Deduction of Rs. 100,000/-
g.	3rd Violation	Deduction of Rs. 500,000/-
h.	4th Violation	Suspension for period of Six Months
i.	5th Violation	Blacklisting





15. To ensure that Contractor obtains 3rd party insurance to cover such incident (Harmful Incidents / Any Accident)
16. To ensure the sufficient security is retained by the company from the Contractors to cover such case (Harmful Incidents / Any Accident)
17. Protective gear should be provided to workers by the Contractors to avoid such accidents (Harmful Incidents / Any Accident)
18. To take care of the above point in future as well as running contracts.
19. Minimum level of age/experience/skill of contractor's staff/labour should be checked by first line executives and HSE engineer against the relevant job. A clause should be included in the Contract awarding documents against this requirement.
20. Contractor's staff should use only those tools at site which have prior verification from first line executives and HSE engineer. A clause should be included in contract awarding documents against this requirement.





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## INTEGRITY PACT

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## INTEGRITY PACT

### DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC PAYABLE BY THE CONSULTANT/CONTRACTOR FOR SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: \_\_\_\_\_

Dated: \_\_\_\_\_

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

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

[name of Consultant/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 Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [name of Consultant/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 GoP, except that which has been expressly declared pursuant hereto.

[name of Consultant/ Contractor] certifies 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 GoP and has not taken action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Consultant/ 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 right and remedies available to GoP under any law, contract or other instrument, be void able at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Consultant/ Contractor] agrees to indemnify GoP for any loss of damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission gratification, bribe, finder's fee or kickback given by [name of Consultant] 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 GoP.

\_\_\_\_\_  
[Client]

\_\_\_\_\_  
[Consultant / Contractor]





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# GENERAL TERMS & CONDITIONS

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## GENERAL TERMS & CONDITIONS

### 1. SITE CONDITIONS, CLEARING AND GRUBBINIG

The tenderers shall fully acquaint themselves with the site, site conditions, affecting in any way the cost of tender etc., before tendering. The work is to be completed in all respects, fully functional. The work also includes all necessary arrangements required to be made at site according to site requirements.

### 2. TENDER PREPARATION AND SUBMISSION

The tenders shall be prepared at tenderer's own cost and shall be submitted on prescribed form of tender in sealed envelopes on which only the name of work should be clearly written in capital letters while name of tenderer should not be written. All entries should be made in ink in both words and figures. All pages of the tender documents must be signed and stamped by the tenderer. The preparation of tender documents and any correspondence in connection with the tender documents should be in the English language. The tender should be delivered in person or by mail to the following address:

INCHARGE (CIVIL)  
2ND FLOOR, S.N.G.P.L. HEAD OFFICE,  
21-KASHMIR ROAD, LAHORE

so as to reach on or before the time and date given in Tender Invitation Notice/Letter, at which time and place, they will be opened. Tenderers are invited to be present at the opening of the tenders. Only the tenderer's name and total tendered prices will be announced. The tender documents thus once submitted shall become property of the Company and shall not be returned whatsoever.

### 3. CLARIFICATIONS, INTERPRETATIONS

The tenderer shall study the drawings and specifications carefully. Any information, clarifications, interpretations sought by the intending tenderers must be referred in writing to SNGPL will issue necessary instructions in writing to all tenderers simultaneously, which will become part of the contract. The tenderers shall sign copies of all such addenda and submit them together with the tender documents and drawings. Verbal discussions shall not to be considered binding. No extension in the closing date shall be demanded on account of any such clarification and/or interpretation having received late. If no clarification is obtained within the prescribed time and later on any discrepancy (e.g., mismatch between any tender documents etc.,) is noticed, then the decision of the Company shall be final and binding.

*In accordance with the date mentioned at*





#### 4. MODIFICATIONS

Modifications in the tender documents, if required by the Company, will be made by issuing addenda to the Tender Documents. Intimation of such modifications will be sent to each tenderer, minimum four days prior to the date of submission of tenders. No amendment or modification of the contract shall be made except in writing and signed by the Company.

#### 5. CONDITIONAL TENDER

Conditional tender will not be accepted.

#### 6. RATES

The Contractors shall quote the rate on lump sum cost basis (if not given otherwise) in the bid sheet attached to construct, complete and maintain the works included in the bid sheet, to the fully functional/operational conditions covering and including all the civil works, public health and sanitation work, electrical works, laying conduit pipe for telephone lines, external works and all other services whether or not shown in the drawings or given in the specific specifications. For this purpose, Contractors shall calculate and evaluate the quantities and quantum of works themselves and no claim of Contractors whatsoever shall be entertained by the Company for any mis-calculation of tender by the Contractors. The rates quoted by the Contractors shall be for complete finished work and shall be comprehensive and complete in all respects including cost of all materials, labour, tools and plants, carriage, taxes, profits, incidental charges etc.

#### 7. RATE ANALYSIS

The Contractors should provide rate analysis of each item (if required).

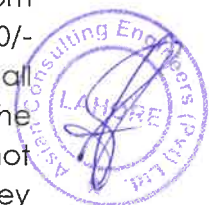
#### 8. RIGHT OF REJECTING TENDER

The Company shall have the right of rejecting any or all of the tenders. The Company is not bound to award the contract to the lowest tenderer.

#### 9. EARNEST MONEY

A Demand Draft, Pay Order, Deposit-at-Call or Deposit Receipt issued from any scheduled bank of Pakistan (preferably at Lahore), equal to Rs. 120,000/- amount of work in favour of Sui Northern Gas Pipelines Limited, Lahore shall be submitted before tender opening date as earnest money on the addressed mentioned at Appendix-A. Tenders without Earnest Money will not be entertained. Cheques and cash will not be accepted. The earnest money of unsuccessful tenderers shall be returned

- a. After execution of contract agreement with the successful tenderer or
- b. If all the tenderers are rejected, after such rejection or
- c. Within sixty days of opening of tender





The earnest money of the successful tenderer shall be returned after submission of Performance Bond. If the tenderer to whom the contract is awarded refuses or neglects to execute the agreement than the earnest money will be forfeited and contract may be rescinded. If the construction site is not cleared and handed over to the Contractors by the company within 60 days of issuance of work order, the earnest money will be returned to the Contractors by the company.

**10. VALIDITY OF BID**

The bid shall remain valid and may remain open and binding for a period of 120 days from the date of opening of tender or until the work order issued to the successful tender.

**11. PERFORMANCE BOND OR GUARANTEE**

The Contractors will have to submit, at his own expense, Performance Bond as per detail given in Appendix-A. Terms of the bond shall be as per sample provided by the Company.

**12. STANDARD OF WORK**

The work shall be done to the entire satisfaction of the Company. The Company is the sole judge to approve the standard of work and if any defects are observed up to completion of maintenance period, the Contractors shall make good all such defects at his own risk and cost including materials. If the Contractors fails to do any such work, as aforesaid required by the Company, the Company can get the same work done through any other means and all expenses consequent thereon or incidental thereto shall be recoverable from the Contractors by the Company or may be deducted by the Company from any money due or which may become due to the Contractors.

**13. HSE POLICY**

SNGPL is committed to the health and safety of its employees, preservation of environment and continual improvement of HSE performance by reducing potential hazards, preventing pollution and adhering to applicable laws and regulations in all its activities related to its Contractors. Following should be ensured by the Contractors.

1. Usage of Personal Protective Equipment.

The use of personal Protective equipment is to reduce employee's exposure to hazard when engineering and administrative controls are not feasible or effective to reduce the risks to acceptable levels. Personal Protective Equipment is last line of defence.

2. Wearing of closed shoes.
3. Not wearing loose clothes.
4. Not to use defective machinery and plant.





5. Not to work in unsafe condition.
6. Not to perform unsafe acts.

**14. REMOVAL OF ANY CONTRACTOR'S EMPLOYEE FROM SITE**

The Company shall be at liberty to object to and require the Contractors to remove forthwith from the works any person employed by the Contractors in or about the execution or maintenance of the works, who, in the opinion of the Company, misconducts, or is incompetent or negligent in the proper performance of his duties, or whose employment is otherwise considered by the Company to be undesirable and such person shall not be again employed upon the works without the written permission of the Company. Any person so removed from the works shall be replaced as soon as possible by a competent substitute approved by the Company.

**15. CONTRACTORS LIABLE FOR DAMAGE TO PLANT AND PEOPLE ETC.**

The Contractors shall be at any time be liable for the loss of or damage to any of the said constructional plant, temporary works, materials and people including labour etc.

**16. SERVICE OF NOTICES ON CONTRACTORS**

All certificates, notices or written orders to be given by the Company to the Contractors under the terms of the contract shall be served by sending by post to or delivering the same to the Contractors principal place of business, or such other address as the Contractors shall nominate for this purpose.

**17. SUBLETTING**

No subletting of major work shall be done without prior written permission of the Company.

**18. REMOVAL OF IMPROPER WORK AND MATERIAL**

- a. The Company shall during the progress of the works have power to order in writing from time to time:
  - i. The removal from the site, within such time or times as may be specified in the order, of any materials which, in the opinion of the Company, are not in accordance with the contract.
  - ii. The substitution of improper and unsuitable materials and
  - iii. The removal and proper re-execution, notwithstanding any previous test thereof or interim payment therefore, of any work which in respect of materials or workmanship is not in the opinion of the Company, in accordance with the contract.
- b. Default of Contractor's Compliance

In case of default on the part of the Contractors in carrying out such order, the Company shall be entitled to employ and pay other persons to carry out the same and all expenses consequent thereon or incidental thereto shall be recoverable from the Contractors by the Company, or may be deducted by





the Company from any money due or to which may become due to the Contractors.

**19. RATE OF PROGRESS**

If for any reason, which does not entitle the Contractors to an extension of time, the rate of progress of the works or any section is at any time, in the opinion of the Company, too slow to ensure completion by the prescribed time, the Company shall so notify the Contractors in writing and Contractors shall thereupon take such steps as are necessary and the Company may approve to expedite progress so as to complete the works or such section by the prescribed time. The Contractors shall not be entitled to any additional payment for taking such steps. If as a result of any notice given by the Company under this clause, the Contractors shall seek the Company's permission to do any work at night or on Sunday, if locally recognized as days of rest, or their locally recognized equivalent, such permission shall not be unreasonably refused. If it is still felt that the progress of the Contractors is not satisfactory and in the opinion of the Company, the project is likely to be delayed due to poor progress, the remaining work can be taken over from the Contractors after giving notice of 14 days and the work can be got completed at the risk and cost of the Contractors.

**20. ADVANCE PAYMENT**

No advance payment shall be made except described in Appendix-A.

**21. CORRECTION AND WITHHOLDING OF PAYMENT CERTIFICATES**

If the works or part of the works contained in the PPCs/FPC of the Contractors are found incomplete, defective, rejected and/or with calculation error(s) etc., the Company shall and/or can:

- a. Correct and deduct from the bill such amount or amounts as the Company may consider proper and reasonable or
- b. Withhold payment certificate till the proper completion and rectification of the works or part(s) thereof, or
- c. Send back the said bill to the Contractors for resubmission of proper bill in proper form and details as required by the Company.

The Contractors shall have no claim whatsoever for any delay thus occurring in issuing the payment certificates and releasing the payment thereof.

**23. INCOME TAX DEDUCTION**

As required under the law, Income Tax will be deducted as per prevailing Government instructions and deposited with the Income Tax Department. However, a certificate for such deduction will be issued to the Contractors.

**24. VARIATIONS**

The Company shall make any variations of the form, quality or quantity of the works or any part thereof that may, in its opinion, be necessary and for that





purpose, or if for any other reason it shall, in its opinion be desirable, the Company shall have power to order the Contractors to do and the Contractors shall do any of the following:

- a. Increase or decrease the quantity of any work included in the contract.
- b. Omit any such work
- c. Change the character or quality or kind of any such work
- d. Change the levels, lines, position and dimensions of any part of the works, and
- e. Execute additional work (s) of any kind necessary for the completion of the works

And no such variation shall in any way vitiate or invalidate the contract. Additional proportionate time may be allowed by the Company on the basis of any addition in work (s) as per following:

1. If excess in the quantities of any item of work is required either due to requirement of the client departments of SNGPL or due to some other unavoidable site conditions, the same should be informed by the Contractors well in time in order to seek formal written approval from the In-charge (Civil). The Contractors should also quantify and inform the increase in cost of work (s) due to any such excess in quantity of any item.
2. Upon receipt of above stated intimation of the Contractors, undersigned will issue formal written permission to the Contractors for proceeding ahead in the matter accordingly.
3. The Contractors have no authorization to exceed the quantities of different items given in the work order without prior written permission of the In-charge (Civil).
4. If any Contractors execute the construction work (s) in such a way that causes excess in quantities of any item of work, over and above the work order quantities without prior written permission of the In-charge (Civil), the Company may refuse for payment against such excess quantities.

## 25. VALUATION OF VARIATION

All extra or additional work (s) done or work (s) omitted by the order of the Company shall be valued at the rates and prices set out in the contract if, in opinion of the Company, the same are reasonable, otherwise the same will be rationalized as per following formula given for non-BOQ items.

The rates for additional works (non-BOQ), if any, will be calculated on the basis of following guidelines:

- i. Average market price of material specified quality.
- ii. Cost of labour worked out rationally.





- iii. 10% of cost of material and labour as overhead expenses and taxes of Contractors.
- iv. 15% of cost of material and labour as profit of the Contractors.

**26. ESCALATION**

No escalation in respect of any kind of material and labour shall be paid in any case due to increase of prices in the market.

**27. NATIONAL TAX NUMBER AND PROFESSIONAL TAX CLEARANCE CERTIFICATE**

The Contractors will have to produce National Tax Number and Professional Tax Clearance Certificate.

**28. COMPLETION TIME**

The Contractors shall complete all contract works within stipulated 'Time of Completion' as given in Appendix-A.

**29. TIME EXTENSION**

Delay in work due to special circumstances of any kind which may occur other than through default of the Contractors shall entitle the Contractors to an extension in time for completion of work. These special circumstances may include war, riots, epidemics, adverse climatic conditions, law and order situation or other circumstances of such kind which are beyond the reasonable control of the Contractors. The Company shall determine the amount of such time extension and shall notify to the Contractors accordingly.

**30. LIQUIDATED DAMAGES (PENALTY)**

In case of delay in completion of work from stipulated completion date on the part of the Contractors, Liquidated Damages (Penalty) for such default of the Contractors will be imposed as per the percentage amount given in the Appendix-A for each day of delay. This clause, however, shall not be applicable if in the opinion of the Company, the delay is due to war, riots, epidemics and/or any other reason out of reasonable control of the Contractors. The Company, may without prejudice to any other method of recovery, deduct the amount of such damages from any money in its hands, due or which may become due to the Contractors. The payment or deduction of such damages shall not relieve the Contractors from his obligation to complete the works, or from any other of his obligations and liabilities under the contract.

**31. REMEDY ON CONTRACTOR FAILURE TO CARRY OUT WORK REQUIRED**

If the Contractors shall fail to do any such work(s) as aforesaid required by the Company, the Company shall be entitled to employ and pay other persons to carry out the same and if such work is the work, which in the opinion of the Company, the Contractors were liable to do at his own expense under the





contract, then all expenses consequent thereon or incidental thereto shall be recoverable from the Contractors by the Company, or may be deducted by the Company from any money due or which may become due to the Contractors.

**32. BLACKLISTING**

If the Contractors fail to execute the work as per contract, the Company may delist his name from SNGPL and the same will be forwarded to PPRA and Pakistan Engineering Council and may blacklist his name for future participation in tender.

**33. PROCESS OF PAYMENT/CORRESPONDENCE**

1. Work will be completed by the contractor to whom job assigned.
2. PPCs/FPC will be processed on the name of firm's proprietor including name duly signed and stamped by the proprietor.
3. Cheques payment will be processed on the name of proprietor including firm's name.
4. No representative of the firm will sign the official documents on behalf of proprietor.
5. None of proprietor/ representative of firm allowed to do business with the company the of any other firm.





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## **SPECIFICATION TO BE ADOPTED AND LIST OF APPROVED MANUFACTURERS/VENDORS**

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**SPECIFICATIONS AND  
LIST OF APPROVED MANUFACTURERS/VENDORS**

All equipment/material shall conform to relevant codes and specifications given in BOQ/drawings and shall be from approved sources indicated below. However, in every case the Contractor shall submit complete technical details of the equipment and material and obtain Engineer's approval prior to delivery on site duly vetted by the Consultant. Where Approved Equivalent is indicated, it shall be at the sole discretion of the Engineer to accept or reject the alternate proposal submitted by the Contractor. In the event "Approved Source" of any equipment / material is not indicated below the contractor shall obtain the approval of the Engineer prior to placing order on any supplier. During the execution stage if the material from any supplier is found defective/Sub-standard the Engineer reserves the right to ask the successful bidder to replace his choice of manufacturer / supplier for that particular equipment.

Sr. No.	Description/Materials	Brands/Vendors
1.	Crushed Stone Aggregate	Sargodha (black) or any approved equivalent
2.	OPC Cement	DG, Askari, Maple Leaf or any approved equivalent
3.	Reinforcement Steel, Deform, G-60 & 40	AFCO, Mughal, Fazal or any approved equivalent
4.	Sand	<ul style="list-style-type: none"> <li>• Local Sand PCC 1:4:8, Brick Masonry, Sand Filling</li> <li>• Lawarancepur sand for plaster</li> <li>• 100% Lawarancepur for all RCC Works</li> </ul>
5.	Construction Chemicals	<ul style="list-style-type: none"> <li>• SIKA</li> <li>• Radiant Construction Technologies</li> <li>• Pak Chemicals</li> <li>• Approved Equivalent</li> </ul>
6.	G.I. Pipes/Sheets	IIL (M)
7.	Hot Bitumen	PB3 or PB4
8.	Polythene Sheet	60 Sft = 1kg
9.	Double Tee Planked R.C.C Roof Slab	Izhar Group of companies

**NOTE:**

1. All materials shall be as per brands/specifications given in above table or equivalent approved by Incharge (Civil) and duly vetted by the Consultant.
2. Samples of all construction material should be got approved from the Incharge (Civil) before installation at site.
3. Original cash memo/certificate from authorized dealer will be provided by the Contractor to Incharge (Civil) before installation when required.
4. All PCC, RCC Cylinder strength and steel grade would be according to the provisions of BOQ and drawings. Same provisions will prevail for steel cover.





## APPENDIX: LIST OF APPROVED INSURANCE COMPANIES

List of approved insurance companies for performance bond only

1. National Insurance Corporation
2. Habib Insurance Company Limited
3. Eastern Federal Insurance Co. Ltd
4. Premier Insurance Co. Ltd
5. New Jubilee Insurance Co. Ltd
6. Universal Insurance Co. Ltd
7. Adamjee Insurance Co. Ltd
8. National Security Insurance Co. Ltd
9. The Pakistan General Insurance Co. Ltd
10. United Insurance Co. Ltd
11. Atlas Insurance Co. Ltd
12. IGI Insurance Co. Ltd

Note: Performance or other guarantees from Insurance Company will be accepted as long as the Insurance Company is of category A+ or above, as per ratings issued by Pakistan Credit Rating Agency Limited (PACRA). Earnest Money and Mobilization Advance Guarantee will, however, be acceptable from Scheduled Banks of Pakistan.





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# APPROVED SAMPLE OF PERFORMANCE BOND/GUARANTEE

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## APPROVED SAMPLE OF PERFORMANCE BOND/GUARANTEE

**No.** : \_\_\_\_\_  
**Dated** : \_\_\_\_\_  
**Amount** : \_\_\_\_\_  
**Expiry date** : \_\_\_\_\_

To  
The Managing Director  
Sui Northern Gas Pipelines Limited  
Sui Gas House  
21- Kashmir Road  
Lahore

Dear Sir,

BY THIS BOND/ GUARANTEE \_\_\_\_\_  
\_\_\_\_\_ hereinafter  
Lahore whose registered office is at \_\_\_\_\_ hereinafter  
called the "SURETY" do hereby bind ourselves and our successors and assigns jointly  
and severally by these presents, to pay the Sui Northern Gas Pipelines Ltd., Lahore  
(hereinafter called the "COMPANY") unconditionally on demand and without further  
questions, the sum of Rs. \_\_\_\_\_  
(Rupees \_\_\_\_\_)  
\_\_\_\_\_ ) sealed with our seal and dated Lahore this \_\_\_\_\_ day of \_\_\_\_\_.

WHEREAS

M/s \_\_\_\_\_ (hereinafter called  
the "CONTRACTORSS") for submitting tender for \_\_\_\_\_  
\_\_\_\_\_ a Work Order No. \_\_\_\_\_ dated \_\_\_\_\_ made  
between the "COMPANY" of the one part and the "CONTRACTORS" of the other part  
has entered in to a contract (hereinafter called "THE SAID CONTRACT") for the  
construction of aforesaid works as herein mentioned in conformity with the provisions  
of the said contract and the sum mentioned in the above written Bond/ Guarantee  
represents the retention money to be furnished by the Contractors for fulfillment of the  
said contract.





NOW THE CONDITION of the above written Bond/ Guarantee is such that if the Contractors shall duly perform and observe all the terms, provisions, conditions and stipulations of the said contract on the Contractors part to be performed and observed according to the true purport, intent and meaning thereof as determined by the company who shall be the sole judge in the matter or if on default by the Contractors for which the company shall be the sole judge, the surety shall satisfy and discharge the damages sustained by the company thereby and determined by the company of the above written bond/ Guarantee, then this obligation shall be null and void but no alteration in terms of the said contract made by agreement between the company and the Contractors or in the extent or the nature of the works to be constructed, completed and maintained there under and no allowance of the time by the company under the said contract nor any forbearance or forgiveness in or in respect of any matter or thing concerning the said contract on the part of the company shall in any way release the surety from any liability under the above written Bond/ Guarantee.

This Performance Bond/ Guarantee is valid up to \_\_\_\_\_ (including time of completion of work and completion of maintenance period).

Yours faithfully,

For and on behalf of "Surety"

SURETY NAME \_\_\_\_\_

\_\_\_\_\_  
**Authorized Signature**

\_\_\_\_\_  
**Authorized Signature**

The Common seal of the ("Surety") \_\_\_\_\_ is hereunto affixed in the presence of:

WITNESSES:

1.  
Name: \_\_\_\_\_  
CNIC No. \_\_\_\_\_  
Signature: \_\_\_\_\_

2.  
Name: \_\_\_\_\_  
CNIC No. \_\_\_\_\_  
Signature: \_\_\_\_\_





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## SPECIAL CLAUSES

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## SPECIAL CLAUSES

**SC1. TESTING OF CONSTRUCTION MATERIALS ETC:**

Tests but not limited to the following for construction materials shall be carried out:

Sr. No.	Material	Test	Reference
1	Concrete	i Slump Test	ASTM C 143
		ii compressive test of 6" dia x 12" long cylinder at 28 days	ASTM C -39
2	Bricks	Compressive Strength 1800 psi	ASTM C 0067-03a
3	Aggregate	1. Sieve Analysis	ASTM C 136-5
		2. Crushing Strength by Los Angeles Abrasion Test	ASTM C 131-03
4	Reinforcement Steel	1. Tensile Strength	ASTM A 615/A
		2. Elongation Test	ASTM A 615/A

- i. The Contractor will pay all the expenses relating to material testing including but not limited to the cost of metrical sample preparation carriage and testing in lab etc.
- ii. The Contractor shall make available at site the equipment/apparatus required for testing of material as directed by the Company.
- iii. The quantity of sample and the frequency of tests will be as per above standard or as directed by the Company.

**SC2. UTILITIES:**

The Contractor shall provide where possible at site Contractors staff accommodations water supply and electric power free of cost.

**SC3. QUANTITIES IN BID SHEET:**

The quantities given in bid sheet are only for reference and payment shall be made as per actual measurement at site.

**SC4. IMPLEMENTATION OF HSE PROCEDURES:**

The successful bidder shall follow all the applicable HSE procedures and policies at construction site in accordance with Contractors HSE statement.

**SC5. TESTING ARRANGEMENT/EXPENSES:**

Testing arrangement/expenses for construction materials, concrete and compaction of road works from approved laboratories (approved by SNGPL representative/site Incharge) shall be responsibility of Contractor. All tests of construction materials and final product elaborated in Technical Specifications will be performed after which the works will be considered as approved for final payment.





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## SCHEDULE OF PAYMENT

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## MODE OF PAYMENT/PAYMENT SCHEDULE

### Construction of Two Meter Halls with Attached Washroom/Office Including External Works at Regional Meter Shop Multan

Payment shall be made against each bill as per Bid Sheet/BOQ upon completion of respective Job associated with that specific bill strictly in accordance with the methodology/scope of works proposed in these tender documents.

**NOTE:**

1. These payments will be considered for approval/payment only after complete testing of the construction materials involved and other related tests specified in the tender documents, drawings and provisions of BOQ.
2. The quantities given in BOQ are only for reference however work to be carried out as per specification/drawings given in tender document and payment shall be processed as per the Mode of Payment.





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## BILL OF QUANTITIES

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**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GASS PIPELINES LIMITED**  
**(SNGPL)**  
**COST ESTIMATE**

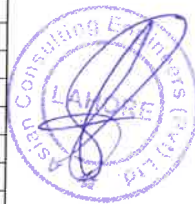
**General Abstract of Cost**

Sr.No	Description	Amount (Rs.)
1	Bill No.1: Civil Works	
2	Bill No.2: Mechanical Works	
3	Bill No.3: Electrical Works	
4	Bill No.4: Fire Alarm System	
6	Bill No.5: CCTV Surveillance System	
	<b>Total</b>	
	PST @ 16% @	
	<b>GRAND TOTAL AMOUNT</b>	
	<b>GRAND TOTAL AMOUNT IN MILI</b>	



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GASS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=6x5
		<b>Bill Nr.1: Civil Works</b>				
		<b>Schedule Items</b>				
1.1	3-21(1)(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		1) By Manual				
		ii) in ordinary soil.	Cft	970.59		
1.2	3-15(i)	Filling, watering and ramming earth under floors:-				
		i) with surplus earth from foundation, etc.	Cft	667.77		
		ii) with new earth excavated from outside lead upto one chain (30 m)	Cft	1,987.42		
1.3	3-17(a,b,c)	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m)				
		a) upto ¼ mile (400 m).	Cft	1,987.42		
		b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	Cft	1,987.42		
		c) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	Cft	1,987.42		
1.4	26-44	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin/ Ms Hextar or equivalent @ specified suspension concentrate (SC). Mixing Ability- HEXSTAR with Ratio (1:250) = 5405 ft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect. as approved by the Engineer Incharge.	Sft	1,100.01		
1.5	6-5 + 1-1	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4 (294 Km Lead on crush)	Cft	126.00		
		(i) Ratio 1: 4: 8 (294 Km Lead on crush)	Cft	201.75		
1.6	10-3	Supplying and filling sand under floor; or plugging in wells.	Cft	206.00		
1.7	6-37(a)(i)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- (260 Km Lead on crush)				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	Sft	194.00		
1.8	6-38(a)(i)	Providing and laying damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge :-				
		i) Ratio 1: 4				
		b) ¾" thick (20 mm)	Sft	194.00		



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GASS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=6x5
1.9	7-4(i)	Pacca brick work in foundation and plinth in- i) Cement, sand mortar- Ratio 1:6	Cft	575.00		
1.10	7-5(i)	Pacca brick work in ground floor- i) Cement, sand mortar- Ratio 1:5	Cft	1,155.00		
		<b>Cement Concrete</b>				
1.11		Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc):-				
	6-9(a) +1-1	(a) (i) Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (294 Km Lead on crush) (3) Type C (nominal mix 1: 2: 4)	Cft	604.67		
1.12	6-13	Providing and fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars), Deformed bars (Grade 60)	Kg	2,194.81		
1.13	11-9(c)	Cement plaster 1:4 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick	Sft	2,300.10		
1.14	11-9(b)	Cement plaster 1:4 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	Sft	1,509.41		
1.15	11-10(b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. b) 1:3	Sft	588.00		
1.16	13-31	Preparing surface and painting with emulsion paint:- a) first coat b) 2nd and each subsequent coat	Sft Sft	2,097.41 2,097.41		
1.17	13-33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface i) 1st coat ii) 2nd coat	Sft Sft	2,300.10 2,300.10		



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=6x5
1.18	25-52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using deluxe sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	Sft	84.00		
1.19	25-53	Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer/ powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	Sft	42.00		
1.20	25-58	Providing and fixing M.S. flat 1/2"x1/8" (13mm x 3mm) grill including 3/4" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	Sft	84.00		
1.21	10-22(b)	1 1/2"(40 mm) thick mosaic flooring, consisting of 1/2 "(13mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete including rubbing and polishing complete with finishing :- (b) using white cement	Sft	588.00		
1.22	10-37 (b)ii	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1/2"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (b) using white cement ii) 1/2"(13 mm) thick	Sft	41.67		
1.23	10-44(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 1 1/2" x 3/8" (40 x 10 mm)	Rft	266.00		
1.24	10-49	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities/ Shelves/ Treads/ Window Sills, having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge. i) China Verona	Sft	42.00		
1.25	10-45(b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured)				



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=6x5
		b) 60-mm thick	Sft	198.99		
1.26	9-35	Providing and laying roof insulation, comprising of single layer of tiles 9"x4 3/4"x1 1/4" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects:-				
		iii) Thermopore sheet 1" (25 mm) thick	Sft	642.60		
1.27	25-64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stainless steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe/ Tong (chintta) @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs, 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainless steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge	Rft	27.00		
1.28	9-15	Khuras on roof 2"x2"x6" (600 x 600 x 150 mm)	Each	2.00		
		<b>Sub-Total</b>				
		<b>Non-Schedule Items</b>				
1.29	N.5	Providing and Fixing steel door with 14 SWG sheeting including angle iron chowkhat frame 1-1/2"x1-1/2"x1/4" and leaf frame 1"x1"x3/16", M.S Flat 2"x1/2", complete with locking arrangement Welding and fixing in position as per drawing and as approved by the Engineer/ incharge, including EN3B Powder Coating.	Sft	48.00		
		<b>Sub Total</b>				
		Total for Schedule Items				
		Total for Non-Schedule Items				
		<b>Total for Bill Nr.1 (Carried over to Summary of Price)</b>				



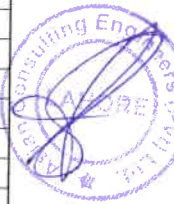
**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GASS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=5x6
		<b>Bill Nr.2: Mechanical Works</b>				
		<b>Schedule Items</b>				
2.1	23-48	Providing, laying, testing and commissioning $\mu$ -PVC (Un plasticized Polyvinyl Chloride) Pressure pipe of nominal diameter, conforming to PS-3051/BS-3505, Dadex/Popular / Beta or approved equivalent manufacturer, i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.				
		a) Class D				
		(v) 4"	Rft	35		
2.1	23-64	Providing and fixing of fire extinguishers and fire blanket of following type and capacities complete in all respect as approved and directed by the Engineer Incharge.				
		(v) 4"	Each	1		
		(v) 4"	Each	1		
		<b>Sub-Total</b>				
		<b>Non Schedule Items</b>				
		<b>Wall mounted decorative Type Indoor Unit</b>				
	N.S	Providing & fixing of Split Type Air Conditioning Units with wall mounted decorative Type Indoor Unit, as Specified & Scheduled including Approved Brands Daikin, Mitsubishi Acson Acson				
	i	1.0 Ton	Nos.	4.00		
		<b>Sub-Total</b>				
		<b>Total for Schedule Items</b>				
		<b>Total for Non- Schedule Items</b>				
		<b>Total for Bill Nr.2</b> <b>(Carried over to Summary of Price)</b>				



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=5x6
		<b>Bill Nr.3: Electrical Works</b>				
		<b>Schedule Items</b>				
3.1	24-3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials				
		ii) 25 mm i/d) Point Wiring	Rft	263		
		iii) 25 mm i/d) Light Circuit Wiring	Rft	85		
		iii) 25 mm i/d) Power wiring	Rft	165		
		vi) 50mm i/d)	Rft	40		
3.2	24-11 (a)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc.				
		i) 1.5 mm <sup>2</sup> (3/0.029") For Point wiring	Rft	789		
		iii) 2.5 mm <sup>2</sup> (7/0.029") For Circuit wiring	Rft	255		
		iv) 4 mm <sup>2</sup> (7/0.036") For Power Wiring	Rft	495		
		v) 6 mm <sup>2</sup> (7/0.044") For AC's	Rft	0		
3.3	24-14	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):-				
	c	PVC insulated PVC Sheathed 4 Core 600/1000 V non armoured cable (Main Power Cable for DB)				
		vi) 10mm sq (7/0.052")	Rft	40		
3.4	24-11	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-				
	c	450/750 volts, PVC insulated:				
		iii) 10mm sq (7/0.052") (Earth Copper Conductor)	Rft	40		
		<b>Sub-Total Schedule Items</b>				
		<b>Non-Schedule Items:</b>				
3.5	N.S	<b>Distribution Board:</b>				
		Fabrication, supply at site installation and commissioning of 16 SWG mild steel sheet fabricated distribution board, free standing wall mounting, indoor type, front access, insulation class 600 Volts, incoming and outgoing connections from top or bottom as per site requirement, door to body earth with flexible copper cable suitable				



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GASS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=5x6
		for 415V AC, 3 Phase 4 wire, 400/230 50Hz TPN&E system having rated service short circuit breaking capacity as mentioned in the details. Complete in all respects as per the satisfaction of the engineer and single line diagram.				
	a	Detail of DBLP-H-GF				
		Incoming:				
		01 No. 32 A TP MCCB RC:10 kA				
		01 No. Digital Volt Meter 0-600VAC With Selector Switch				
		03 Nos. Control Fuse for protection				
		03 Nos. Indication Lamp (R+Y+B)				
		01 Job. Brass Cable Gland for Incoming Cable				
		Outgoing:				
		06 Nos. 10 A SP MCB RC:06 kA				
		05 Nos. 20 A SP MCB RC:06 kA				
		01 Nos. 20 A DP MCB RC:10 kA				
		<u>Complete In all respect as per single line diagram</u>	Each	1		
3.6	N.S	Supply at site, installation and commissioning of ceiling fans with dimmer 56" dia sweep including cost of blades, hanging rod make of G.I. pipe, canopy, capacitors, nuts and bolts etc complete in all respects	Each	4		
3.7	N.S	Supply, installation and commissioning of exhaust fan, 12" dia plastic body along with the all accessories complete in all respects.	Each	1		
3.8	N.S	Supply and installation of gang type switch plates with switches, sockets, dimmers connection of wires & commissioning.				
		a) 2-Gang one way switch 10 Amp	Each	0		
		b) 3-Gang one way switch 10 Amp	Each	0		
		c) 4-Gang one way switch 10 Amp	Each	4		
		d) Fan Dimmer	Each	4		
		e) 5 Amp light plug	Each	4		
		f) 13 Amp 3-pin universal power socket	Each	16		
3.9	N.S	Supply at site & installation of PVC back boxes compatible with switch & socket plates to be installed.				
		a) Back Box: 3" x 3"	Each	20		
		b) MS Junction Box 9"x7" for general use	Each	1		
3.10	N.S	Light Fixtures:				
		Supply, installation, testing & commissioning of following various types of LED lights:				
		a) Ceiling mounted 18 watt LED Light	Each	10		
		b) Wall Mounted Light 12 Watt LED	Each	2		
		c) Water Tight LED Bulkhead Light 18 W	Each	0		
		d) Mirror Light 12 Watt	Each	0		



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=5x6
		e) LED Panel Light 1'-0" x 4'-0" 36 W	Each	12		
3.11	N.S	Supply, installation, testing and commissioning of complete earthing system for the distribution board. The work shall include 3 meter long copper rod of 20 mm dia size with bare copper conductor 2x35 mm sq ssc upto earth connecting point, insection chamber, etc to achieve less than 2.5 ohm specified earthing results. Complete in all respects as per drawing and specifications or as directed by the Engineer	Each	2		
		Sub-Total				
		Total for Schedule Items				
		Total for Non-Schedule Items				
		<b>Total for Bill Nr.3 (Carried over to Summary of Price)</b>				



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GASS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=5x6
		<b>Bill Nr.4: Fire Alarm System</b>				
		<b>Schedule Item:</b>				
4.1	24-3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials				
		iii) 25 mm i/d)	Rft	140		
		<b>Sub-total</b>				
		<b>Non-Schedule Items:</b>				
		Supply, installation, testing and commissioning of following items as per drawings, specifications, & instructions of the engineer, complete in all respect, approved make or equivalent as approved by the engineer				
4.2	N.S	<b>RESETABLE MANUAL CALL POINT</b>				
		Supply and installation of Addressable Resetable Manual Call Point with flush mounting and LED indication on front side, wall mounting with assembling frame, soft addressing, low current consumption, built-in short circuit isolator.	Each	1		
4.3	N.S	<b>ADDRESSABLE OPTICAL SMOKE DETECTOR</b>				
		Supply and installation of Addressable Optical Smoke detector with Soft low current consumption, automatic drift compensation, integrated indicator (360 degrees visibility), built-in short circuit isolator.	Each	2		
4.4	N.S	<b>ADDRESSABLE LOOP SOUNDER</b>				
		Supply and installation of Addressable Electronic Loop Sounder with soft addressing, 3 sound patterns, 3 power options (24VDC, 9VDC and 220VAC), Sound level : 85dB, built-in short circuit isolator and will be approved from EN 54-3 and sounder is IP protection rated to IP21.	Each	1		
4.5	N.S	2 Core 2.5 mm2 shielded drain wire, 30 minutes fire resistance, red, LPCB approved, BS 7629-1/2008, BS 5839-1 standard in already installed 20 mm dia PVC conduit. Complete in all respects.	Rft	140		
4.6	N.S	Termination, testing, software programming with complete system performance warranty from the manufacturer / Authorized Dealer.	Job	1		
		<b>Sub-total</b>				
		Total for Schedule Items				
		Total for Non-Schedule Items				
		<b>Total for Bill Nr.4 (Carried over to Summary of Price)</b>				



**METERING HALL (SNGPL) MULTAN**  
**SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)**  
**COST ESTIMATE**

Sr.Nr.	MRS Input Rates 2025 1st BiAnnual	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6	7=5x6
		<b>Bill Nr.5: CCTV Surveillance System</b>				
		<b>Schedule Items</b>				
5.1	24-3	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
		iii) 25 mm i/ d(1")	Rft	60		
5.2	24-11 (a)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/ M.S. conduit/ G.I. pipe/ wooden strip batten/ wooden casing and capping/trenches, etc. (rate for cable only):-				
		i) 1.5 mm2 (3/0.029")	Rft	60		
5.3	24-113	Supply, intallation and commissioning of wiring with 4-pair data cable, 23 AWG UL/EN listed cable. Conforming to the following standards: TIA/EIA 568/ ISO/IEC11801, inprelaid conduit / cabletray from including all accessories, Manufacturer/ OEM Authorization, Make: Schneider / i-connect UK/ 3M Corning USA/ D-Link/ Pollo Australia or equivalent complete in all respect as approved and directed by Engineer Incharge.				
	(a)	UTP (Unshielded Twisted Pair)				
		(i) CAT-6 (Min.1G @ 250MHz or higher)	Rft	60		
5.4	24-122	Supply, installation & connecting IP based Camera of specified resolution, 1/3" Progressive scan, fixed lens 2.8 mm AF, Max resolution 2592 x 1920 mm, Codec H-265, Camera with 25 fps, day night (ICR), ONVIF, IP-66, Max IR distance 30 meter, WDR Smart Analytics, i/c the cost of mounting bracket, mounting accessories/ materials. Make: - Honey Well / Bosch / Norden, Pollo Australia or equivalent, as approved as directed by the Engineer Incharge				
	(b)	4 Mega Pixel				
		(i) Fixed Bullet Type	No.	2		
		<b>Sub-Total</b>				
		<b>Non-Schedule Items</b>				
5.5	NS	Installation, Programming, Testing and Commissioning of complete system	Job	1		
		<b>Sub-Total</b>				
		<b>Total for Schedule Items</b>				
		<b>Total for Non-Schedule Items</b>				
		<b>Total for Bill Nr.5</b> (Carried over to Summary of Price)				





Sui Northern Gas Pipelines Limited  
SNGPL

METERING HALL

SNGPL MULTAN

MAY, 2025



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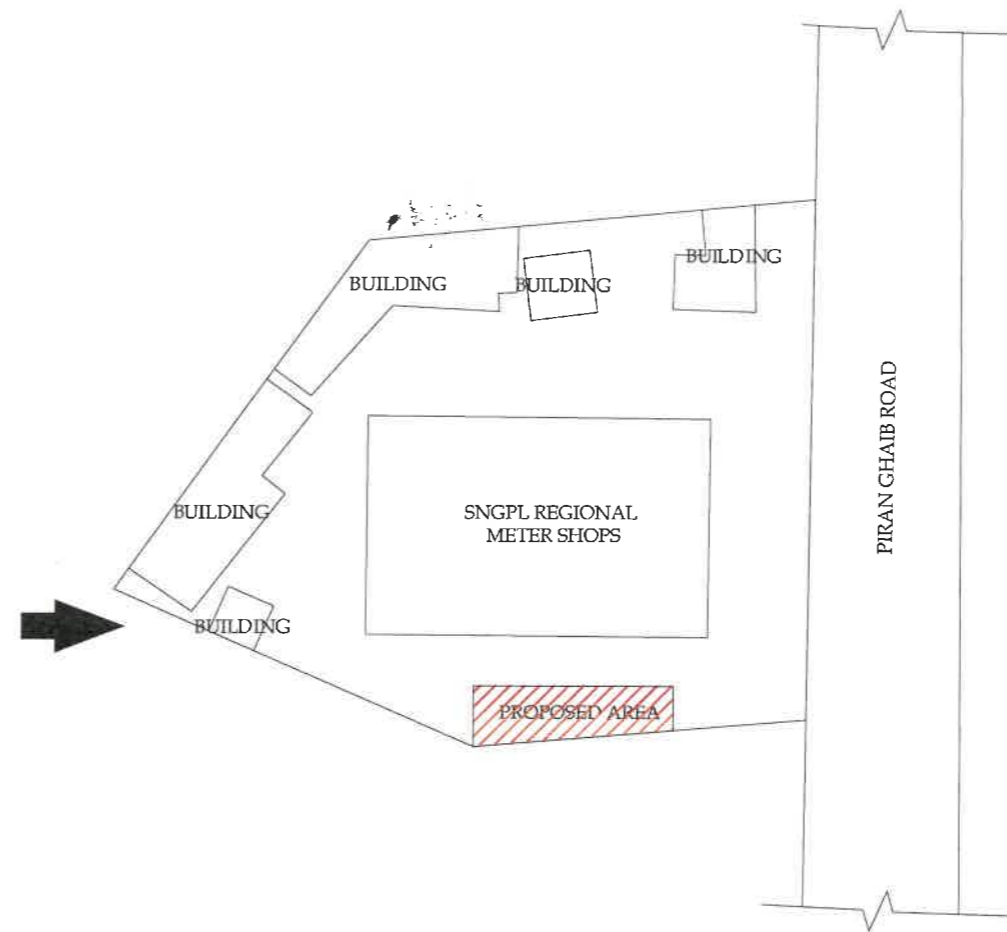
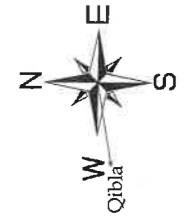
## LIST OF DRAWINGS



Sr. Nr.	Description	Drg.Nr.	Sr. Nr.	Description	Drg.Nr.
	<b>Civil Works</b>			<b>Electrical Works</b>	
1	Location Plan	SNGPL-MHM-C-01	12	Electrical Legend & Earthing Detail Of Earthing System	SNGPL-MHM-E-01
2	Site Plan	SNGPL-MHM-C-02	13	Co-Ordination Layout Plan Ground Floor	SNGPL-MHM-E-02
3	Ground Floor Plan	SNGPL-MHM-C-03	14	Lighting Layout Plan Ground Floor	SNGPL-MHM-E-03
4	Roof Plan	SNGPL-MHM-C-04	15	Power Layout Plan Ground Floor	SNGPL-MHM-E-04
5	Elevations	SNGPL-MHM-C-05	16	Fire Alarm & CCTV Layout Plan Ground Floor	SNGPL-MHM-E-05
6	Section A-A & B-B	SNGPL-MHM-C-06	17	Detail Of Distribution Board "Light & Power-Hall" (DBLP-H-GF)	SNGPL-MHM-E-06
7	Doors & Windows Schedule	SNGPL-MHM-C-07			
8	Flooring Pattern Ground Floor Plan	SNGPL-MHM-C-08		<b>M&amp;P Works</b>	
9	Ramp,Planter & Details	SNGPL-MHM-C-09	18	Lengend and Notes	SNGPL-MHM-P-01
			19	Roof Drain Plan	SNGPL-MHM-P-02
	<b>Structure Works</b>		20	Miscellaneous Details	SNGPL-MHM-P-03
10	Foundation Layout Plan & Sectional Details	SNGPL-MHM-S-01	21	Miscellaneous Details	SNGPL-MHM-P-04
11	Roof Slab Reinforcement Plan & Beams Elevation & Sectional Details	SNGPL-MHM-S-02			

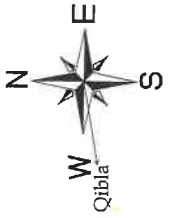
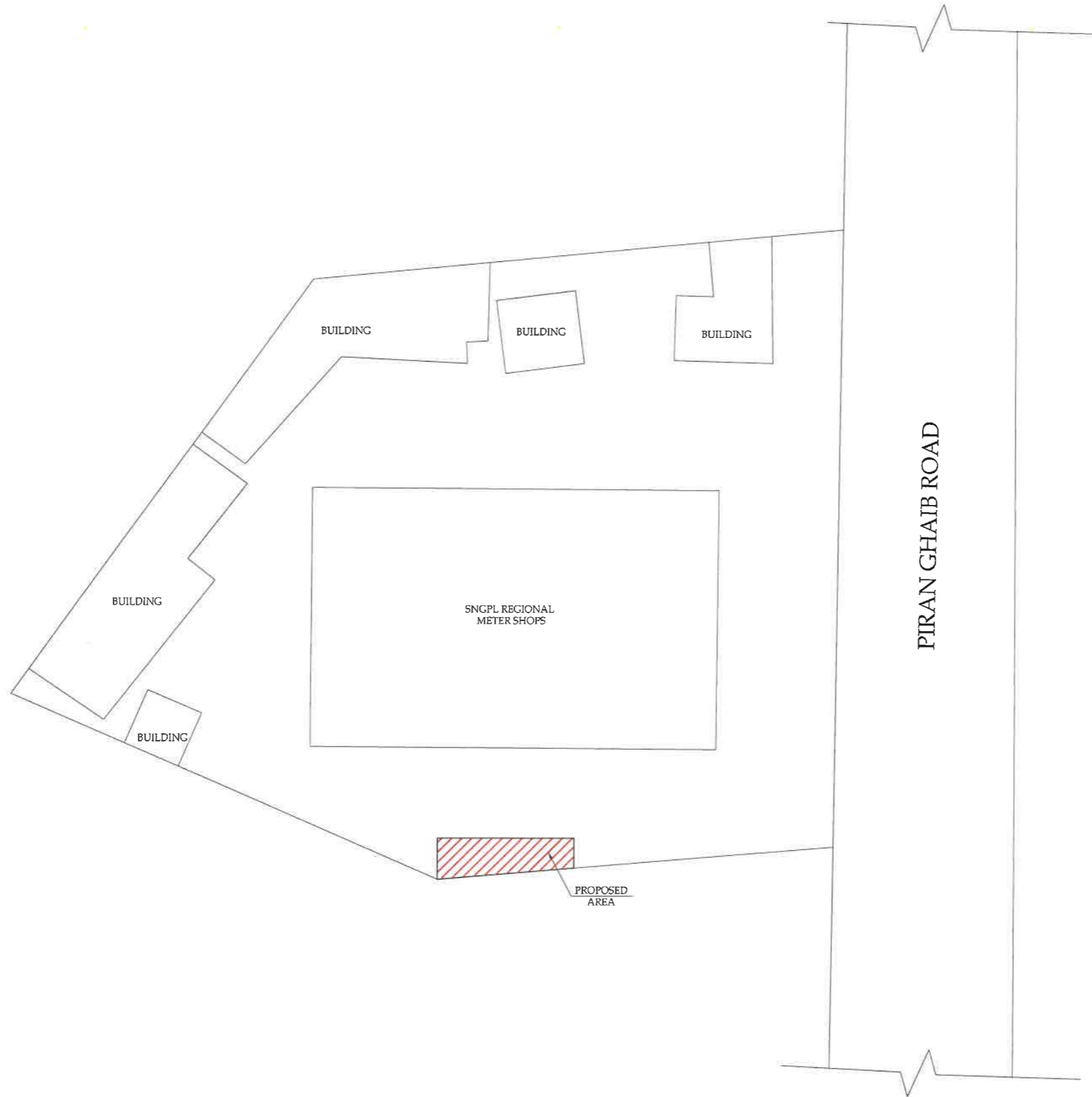


# Architecture





SNGPL		TITLE:		SNGPL BUILDING	
				LOCATION PLAN	
ORIGINAL:	DATE:	SCALE:			
A2	MMV, 2025				
ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	ASIM	ASIM	ASIM
02	26-05-2025	TENDER DRAWING	ASIM	ASIM	ASIM
DRAWING NO.:			SHEET		REV
SNGPL-MHM-C-00			00		00
PROJECT:					
DESIGN OF METERING HALL SNGPL MULTAN					
CLIENT:					
 Sul Northern Gas Pipelines Limited <b>SNGPL</b>					
CONSULTANT:					
 <b>ASIAN CONSULTING ENGINEERS PVT. (LTD)</b> C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN TELEPHONE: +92 42 3542014-5 FAX: +92 42 3542019 WEB: www.asiancon.com					



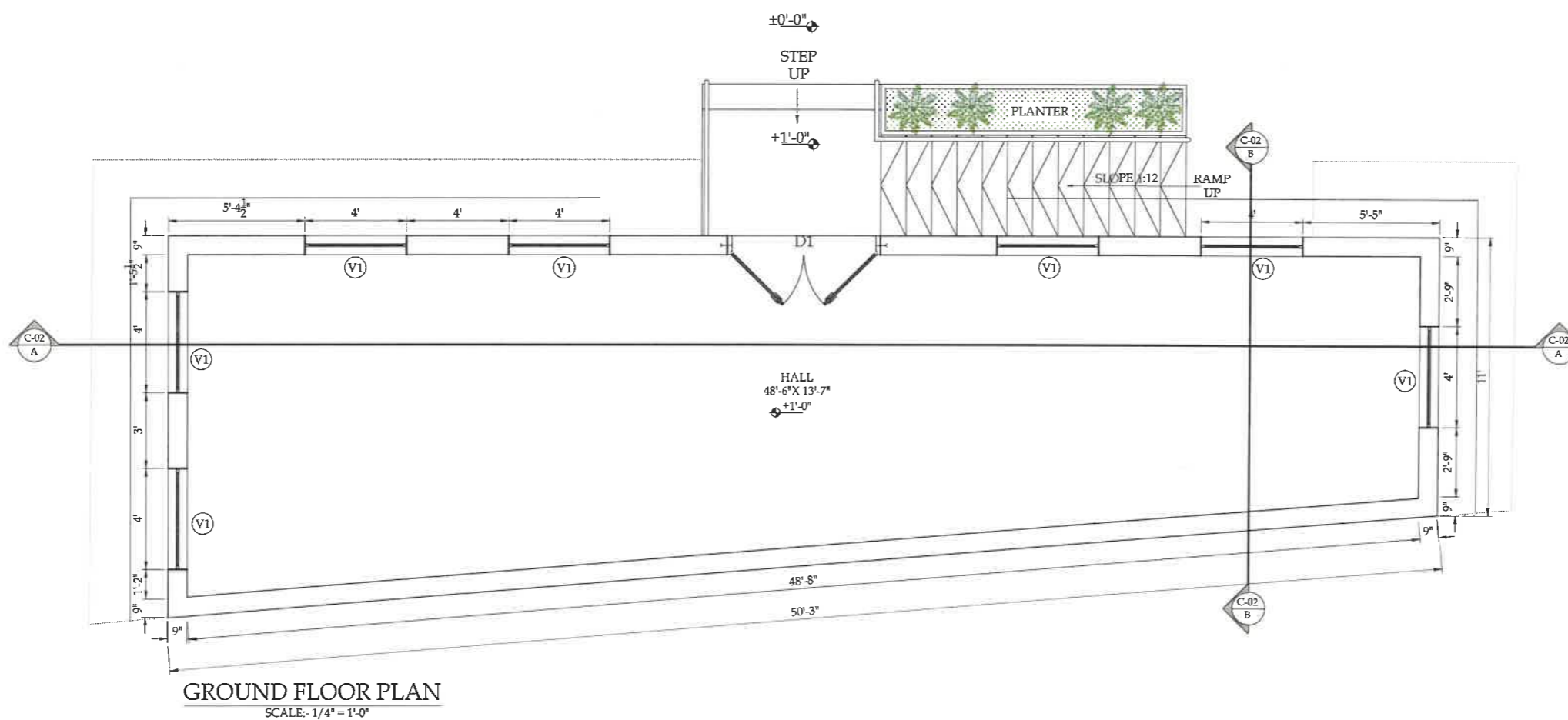
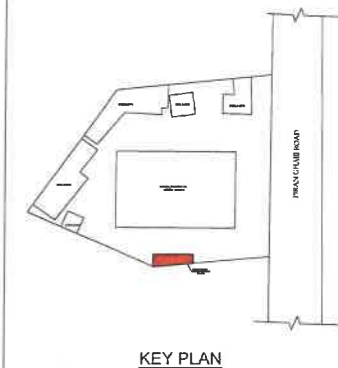
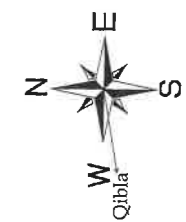
SNGPL  
 TITLE: SNGPL BUILDING  
 SITE PLAN

ORIGINAL:	A2	DATE:	MAY, 2025	SCALE:	
ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
G1	13-03-2023	DRAFT TENDER	ASIM	ZEESHAN	ZEESHAN
G2	26-05-2025	TENDER DRAWING	ASIM	ZEESHAN	ZEESHAN
DRAWING NO:			SHEET	REV	
SNGPL-MHM-C-01			00	00	

PROJECT:  
 DESIGN OF METERING HALL SNGPL MULTAN



CONSULTANT:  
**ASIAN CONSULTING ENGINEERS** PVT. (LTD)  
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SNGPL  
TITLE: SNGPL BUILDING  
GROUND FLOOR PLAN

ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	ASM	FE	JEB
02	26-06-2023	TENDER DRAWING	ASM	FE	JEB

DRAWING NO: SNGPL-MHM-C-02  
SHEET: 00  
REV: 00

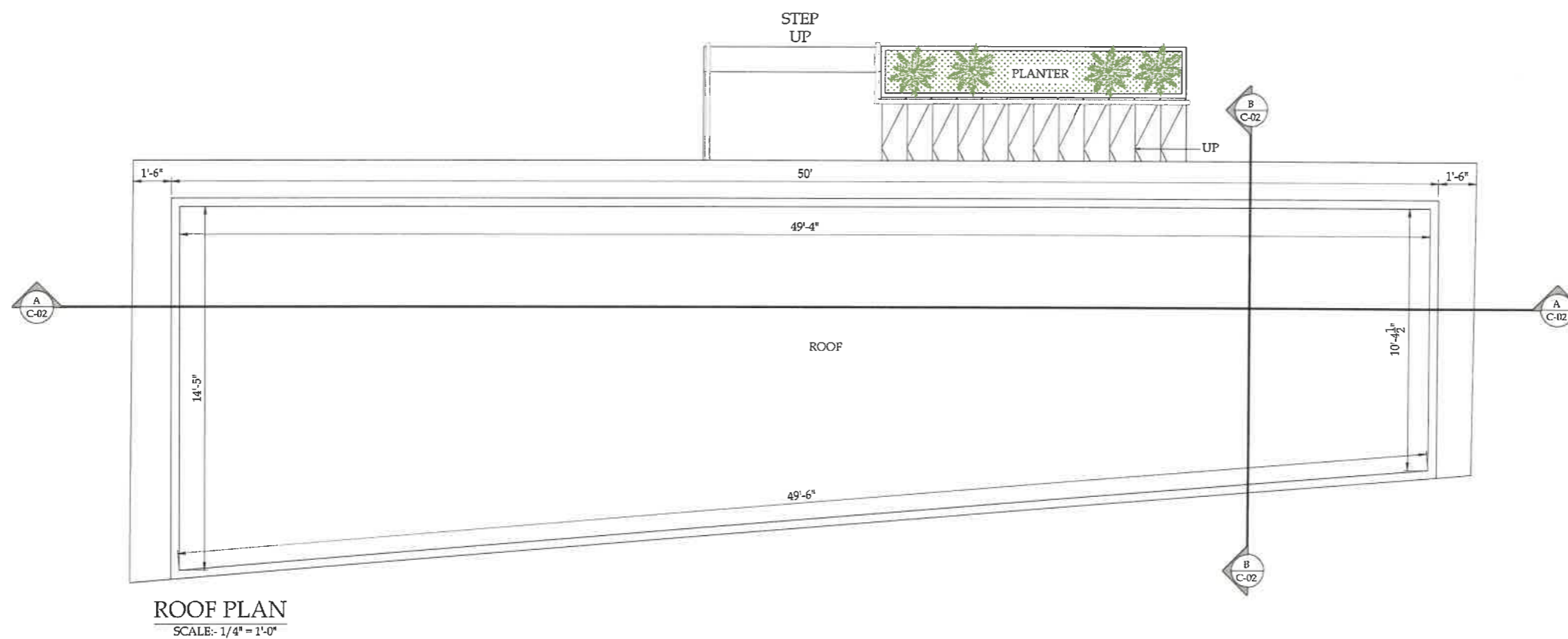
PROJECT: DESIGN OF METERING HALL SNGPL MULTAN



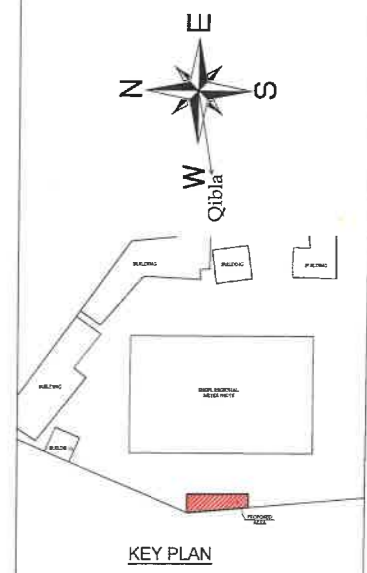
CONSULTANT: ASIAN CONSULTING ENGINEERS PVT (LTD)  
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**AREA STATEMENT**  
GROUND FLOOR COVERED AREA = 772 SFT

SNGPL-C-01 to 07



**ROOF PLAN**  
SCALE:- 1/4" = 1'-0"



**KEY PLAN**




SNGPL  
TITLE: SNGPL BUILDING  
ROOF PLAN


DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01-03-2023	DRAFT TENDER	ASIM	ASIM	ASIM
26-05-2023	TENDER DRAWING	ASIM	ASIM	ASIM

DRAWING N°: SNGPL-MHM-C-03

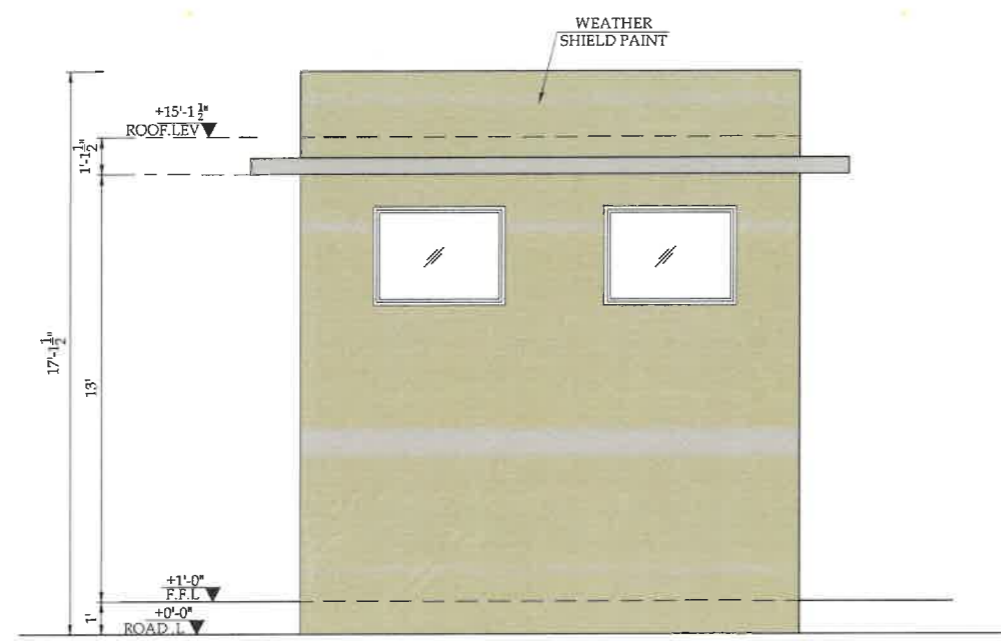
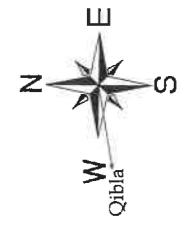
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PROJECT: DESIGN OF METERING HALL SNGPL MULTAN

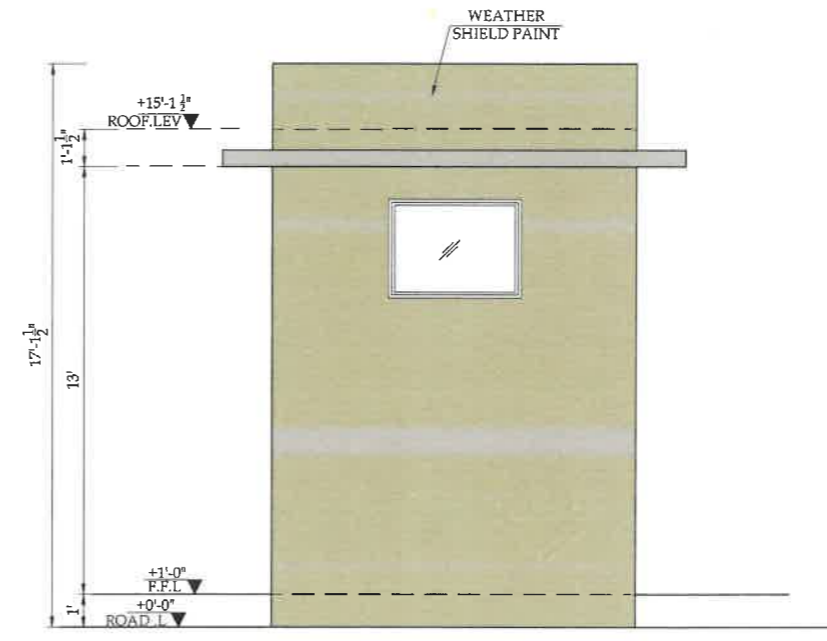
CLIENT:   
Sul Northern Gas Pipelines Limited  
SNGPL

CONSULTANT:  ASIAN CONSULTING ENGINEERS PVT.(LTD)  
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TELEPHONE: +92 42 35450914-5  
FAX: +92 42 35450915 WEB: www.asencon.com

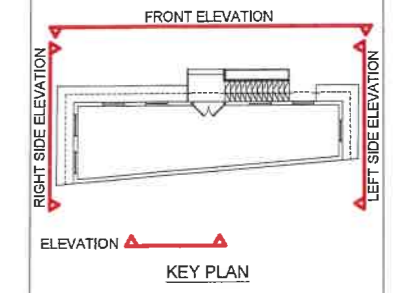
SNGPL-C-01 to 07



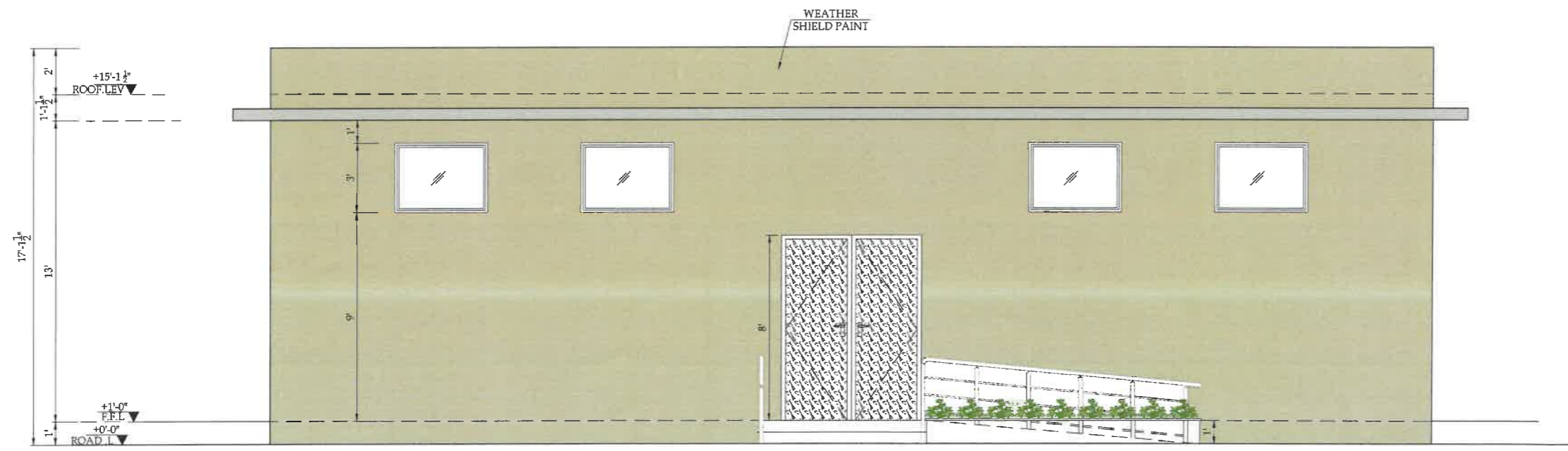
**RIGHT SIDE ELEVATION**  
SCALE:- 1/4" = 1'-0"



**LEFT SIDE ELEVATION**  
SCALE:- 1/4" = 1'-0"





**KEY PLAN**

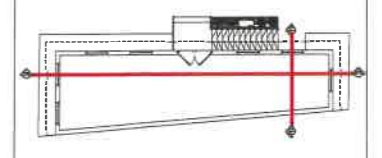
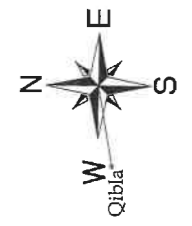


**FRONT SIDE ELEVATION**  
SCALE:- 1/4" = 1'-0"



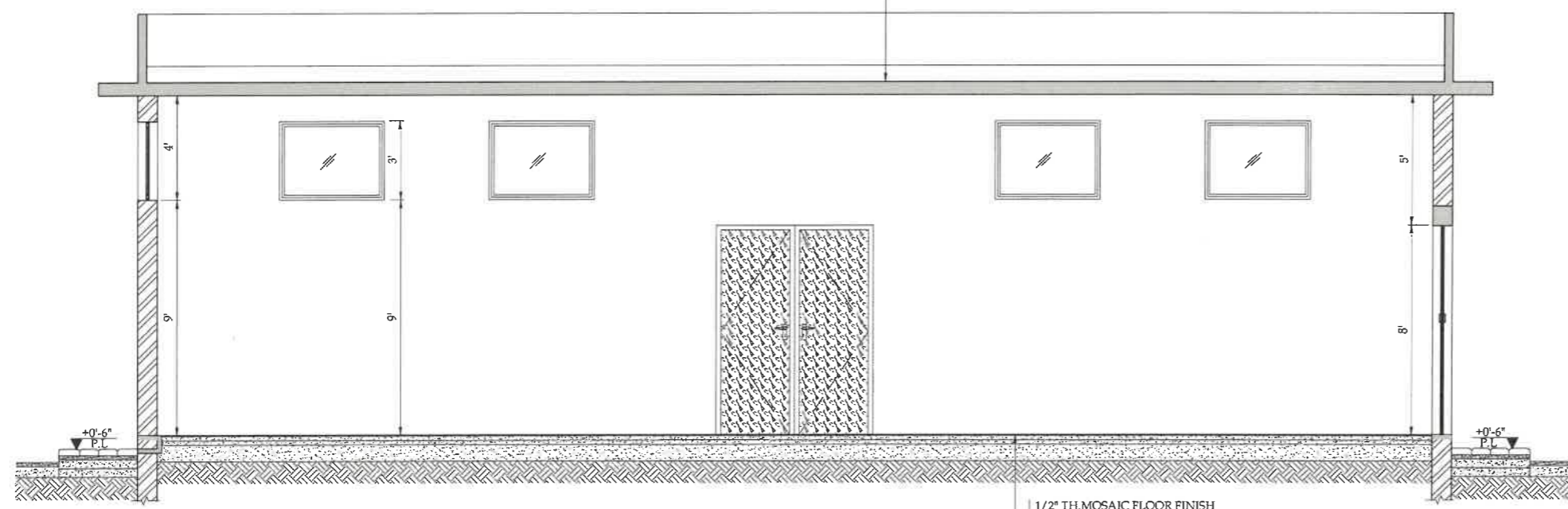
SNGPL		TITLE	
		SNGPL BUILDING ELEVATIONS	
ORIGINAL: A2	DATE: MAY, 2025	SCALE:	
ISSUE NO.	DATE	DESCRIPTION	DRAWN / DESIGNED / APPROVED
01	13-03-2023	DRAFT TENDER	ASIM / ASIM / JAF
02	26-05-2025	TENDER DRAWING	ASIM / BEGUM / JAF
DRAWING NO:		SHEET	REV
SNGPL-MHM-C-04		00	00
PROJECT:			
DESIGN OF METERING HALL SNGPL MULTAN			
CLIENT:			
 Sul Northern Gas Pipelines Limited SNGPL			
CONSULTANT:			
 ASIAN CONSULTING ENGINEERS PVT.(LTD) C-3 JHELUK BLOCK, GREEN FORT-II, LAHORE, PAKISTAN TELEPHONE: +92 42 35655145 FAX: +92 42 35659915 WEB: www.asiancorp.com			

SNGPL-C-01 to 07



KEY PLAN

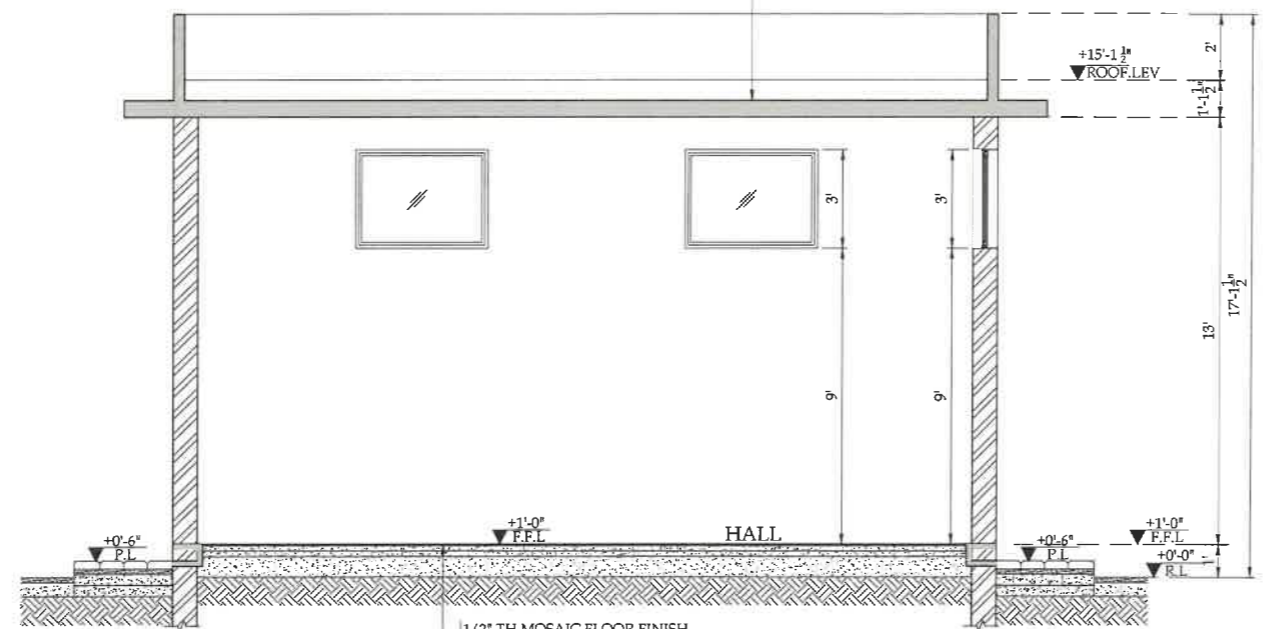
BRICK TILES 9"x4 1/2"x1 1/2" LAID WITH 1:6 C/S MORTAR AND GROUTED WITH CEMENT SAND MORTAR 1:3 LAID OVER 3" THICK EARTH WITH PROPER SLOPE (INCLUDING 3/4" MUD PLASTER MIXED WITH BHOOSA OR RISK HUSK) OVER 30mm THICK JUMBOLON LAYER WITH PROPER JOINTING ARRANGEMENTS AS PER MANUFACTURER SPECIFICATION (3" THICK MIN.) OVER POLYTHENE SHEET (SINGLE LAYER 500 GAUGE & 3" OVERLAP) OVER TWO COATS OF APPROVED BITUMEN @ 40 lbs. PER 100 Sft (TOTAL FOR BOTH COATS) & SINGLE COAT OF PRIMER @ 30 lbs PER 100 Sft R.C.C. SLAB



SECTION-AA  
SCALE:- 1/4" = 1'-0"

1/2" TH.MOSAIC FLOOR FINISH  
2" THICK P.C.C. 1:2:4  
4" THICK P.C.C. 1:4:8  
4" THICK COMPACTED SAND FILLING COMPACTED EARTH

BRICK TILES 9"x4 1/2"x1 1/2" LAID WITH 1:6 C/S MORTAR AND GROUTED WITH CEMENT SAND MORTAR 1:3 LAID OVER 3" THICK EARTH WITH PROPER SLOPE (INCLUDING 3/4" MUD PLASTER MIXED WITH BHOOSA OR RISK HUSK) OVER 30mm THICK JUMBOLON LAYER WITH PROPER JOINTING ARRANGEMENTS AS PER MANUFACTURER SPECIFICATION (3" THICK MIN.) OVER POLYTHENE SHEET (SINGLE LAYER 500 GAUGE & 3" OVERLAP) OVER TWO COATS OF APPROVED BITUMEN @ 40 lbs. PER 100 Sft (TOTAL FOR BOTH COATS) & SINGLE COAT OF PRIMER @ 30 lbs PER 100 Sft R.C.C. SLAB



SECTION-BB  
SCALE:- 1/4" = 1'-0"

1/2" TH.MOSAIC FLOOR FINISH  
2" THICK P.C.C. 1:2:4  
4" THICK P.C.C. 1:4:8  
4" THICK COMPACTED SAND FILLING COMPACTED EARTH

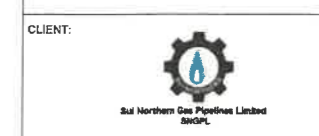


SNGPL  
TITLE: SNGPL BUILDING  
SECTION-A-A & B-B

ORIGINAL: A2	DATE: MAY, 2025	SCALE:			
ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	ASM	SM	SM
02	26-05-2025	TENDER DRAWING	ASM	SEEDER	JWEL

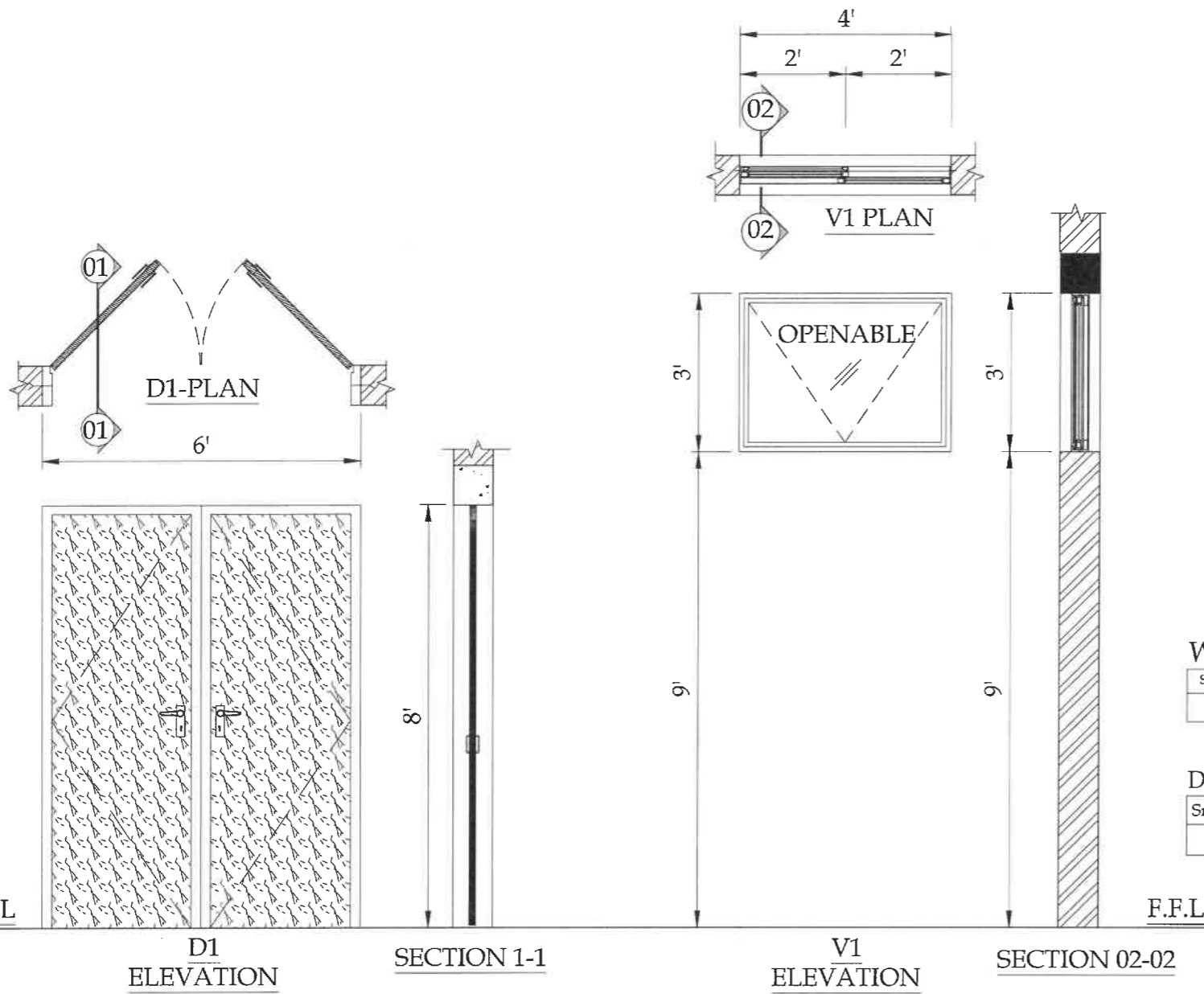
DRAWING NO:	SHEET	REV
SNGPL-MHM-C-05	00	00

PROJECT:  
DESIGN OF METERING HALL SNGPL MULTAN



CONSULTANT:  
ASIAN CONSULTING ENGINEERS (PVT.) LTD.  
C-3 JHELLUM BLOCK, GREEN FORT-8, LAHORE, PAKISTAN  
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FAX: +92 42 35450916 WEB: www.asiancon.com

SNGPL-C-01 to 07



**WINDOWS SCHEDULE**

Sr No.	TYPE	SIZE	SILL	QTY.	DESCRIPTION
1	V1	4'-0"x3'-0"	9'-0"	07	1.6mm TH. ALUMINUM SINGLE GLAZED WITH 5MM TH.GLASS SLIDING VENTILATOR WITH FIXED GLASS

**DOORS SCHEDULE**

Sr No.	TYPE	SIZE	SILL	QTY.	DESCRIPTION
1	D1	6'-0"x8'-0"	0'-0"	01	WOODEN SOLID FLUSH DOOR SINGLE LEAF



SNGPL-C-01 to 07

SNGPL


TITLE: SNGPL BUILDING DOOR'S & WINDOW SCHEDULE


ORIGINAL	A2	DATE: MAY, 2025	SCALE:		
Sr No.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	ASW	ASW	ASW
02	25-05-2023	TENDER DRAWING	ASW	ASW	ASW

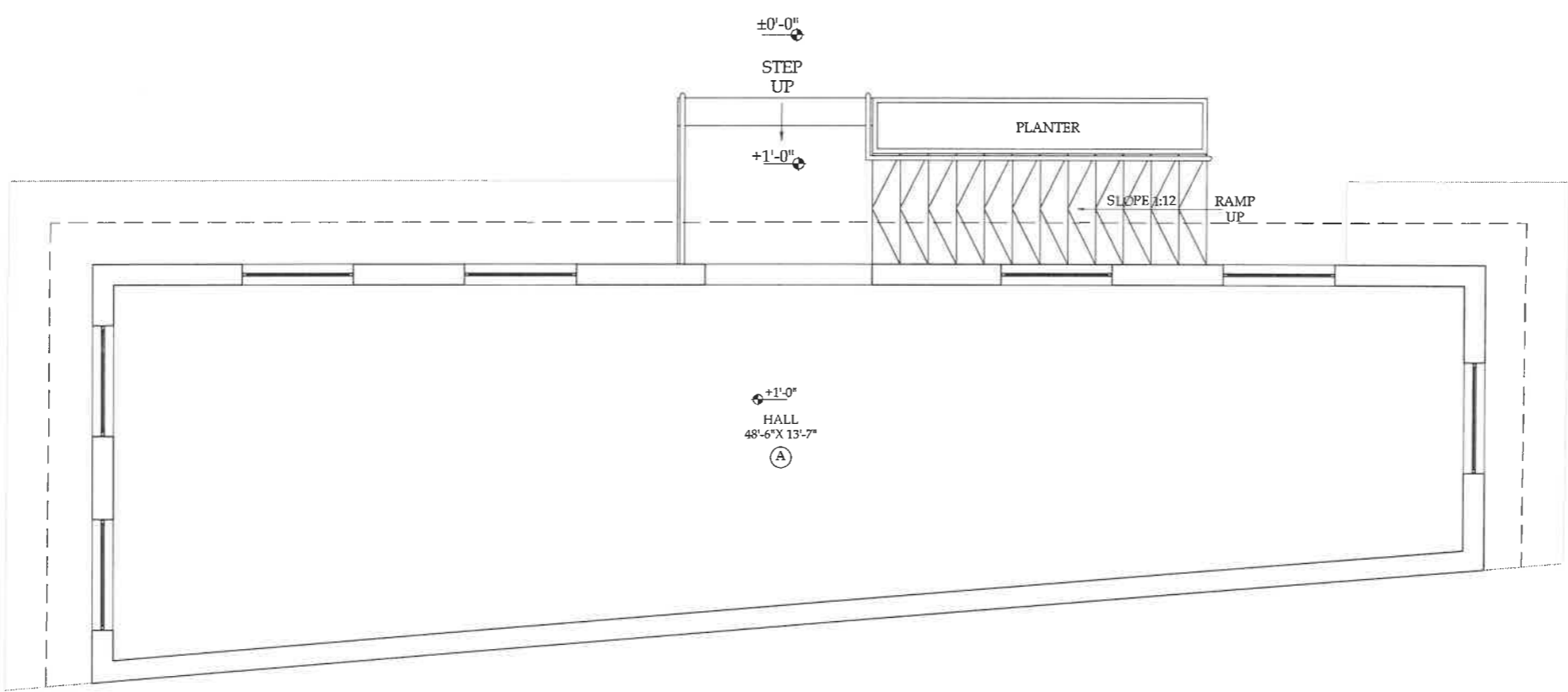
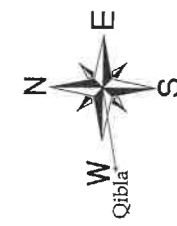
DRAWING NO: SNGPL-MHM-C-06

SHEET	REV
00	00

PROJECT: DESIGN OF METERING HALL SNGPL MULTAN

CLIENT:  Sui Northern Gas Pipelines Limited SNGPL

CONSULTANT:  ASIAN CONSULTING ENGINEERS PVT.(LTD)  
C-3 JHELUM BLOCK, GREEN FORT-3, LAHORE, PAKISTAN  
TELEPHONE: +92-42-3540914-3  
FAX: +92-42-3540918 WEB: www.asiancon.com



**LEGEND**

A = ½" THICK MOSAIC FLOORING WITH 10mm THICK MARBLE STRIP

**FLOORING PATTERN GROUND FLOOR PLAN**

SCALE:- 1/4" = 1'-0"



SNGPL

TITLE: SNGPL BUILDING FLOORING PATTERN GROUND FLOOR PLAN


ORIGINAL	DATE	SCALE
A2	MAY, 2025	


NO.	DATE	DESCRIPTION	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	ASGM	JSE
02	26-05-2025	TENDER DRAWING	ASGM	JSE

DRAWING NO: SNGPL-MHM-C-07

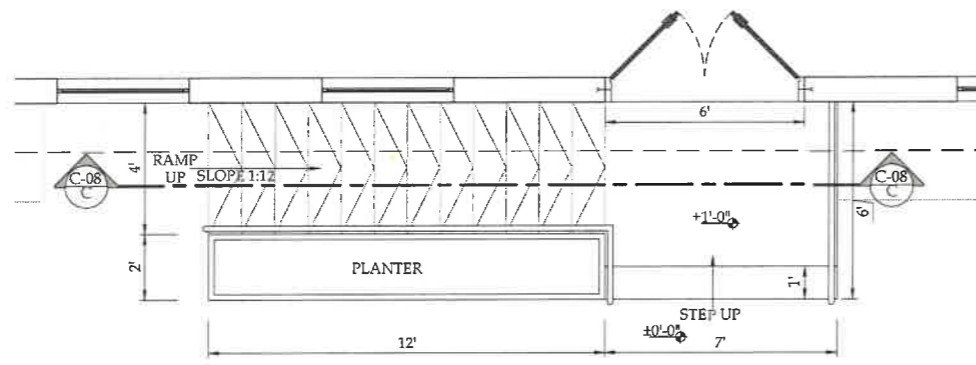
SHEET	REV
00	00

PROJECT: DESIGN OF METERING HALL SNGPL MULTAN

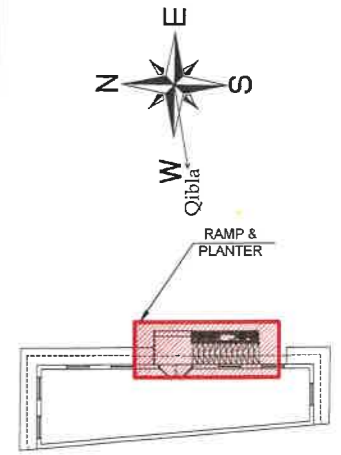
CLIENT:  Sui Northern Gas Pipelines Limited SNGPL

CONSULTANT:  ASIAN CONSULTING ENGINEERS PVT(LTD)  
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN  
TELEPHONE: +92 42 35450914-5  
FAX: +92 42 35450916 WEBSITE: www.asiancon.com

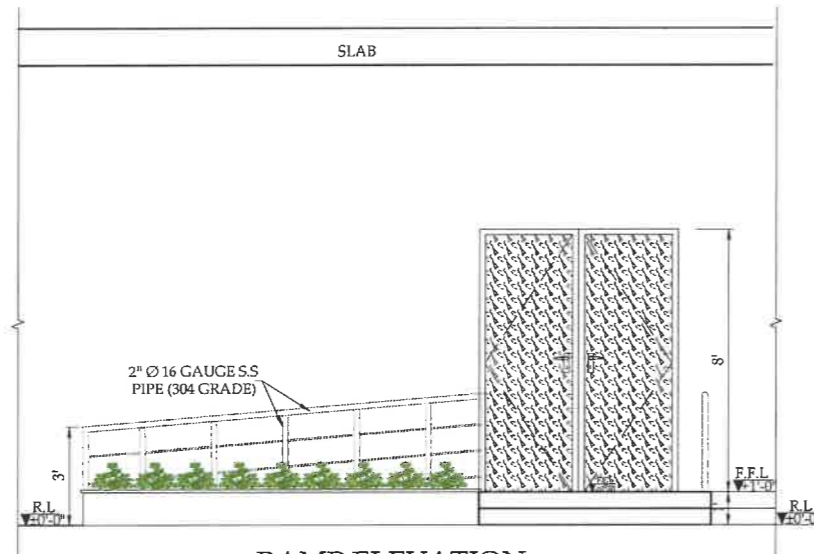
SNGPL-C-01 to 07



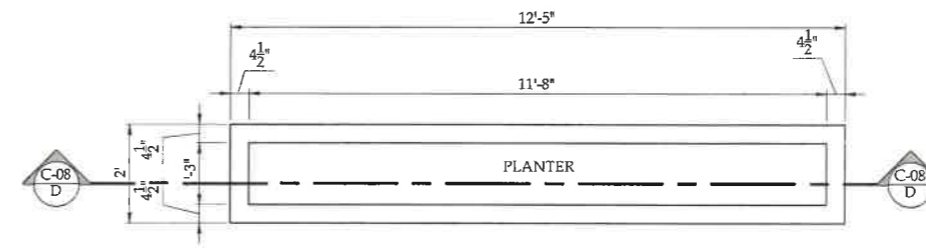
**RAMP PLAN**  
SCALE:- 1/4" = 1'-0"



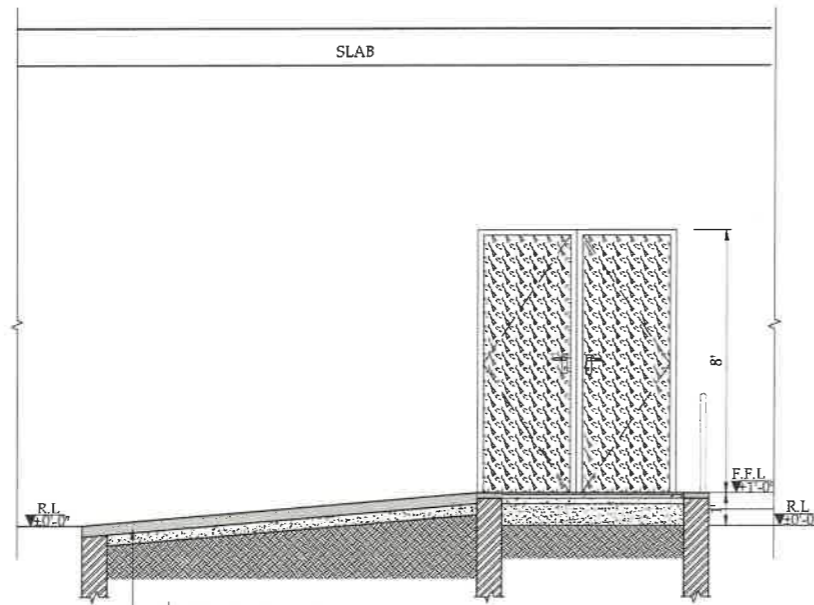
**KEY PLAN**



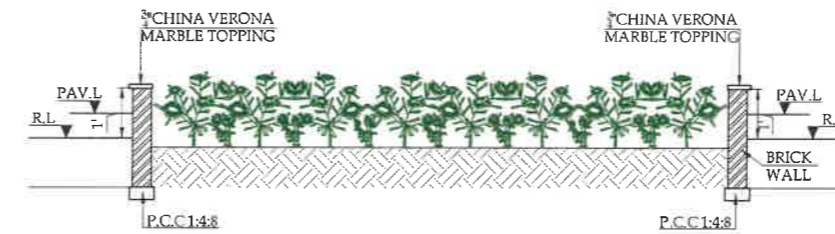
**RAMP ELEVATION**  
SCALE:- 1/4" = 1'-0"



**PLANTER PLAN**  
SCALE:- 3/8" = 1'-0"



**SECTION C-C**  
SCALE:- 1/4" = 1'-0"



**SECTION D-D**  
SCALE:- 3/8" = 1'-0"



SNGPL  
TITLE: SNGPL BUILDING RAMP, PLANTER PLAN & DETAILS

ORIGINAL: A2 DATE: MAY, 2025 SCALE:

ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	ASIM	REK	ZE
02	26-06-2025	TENDER DRAWING	ASIM	REK	ZE

DRAWING N°: SNGPL-MHM-C-08 SHEET 00 REV 00

PROJECT: DESIGN OF METERING HALL SNGPL MULTAN

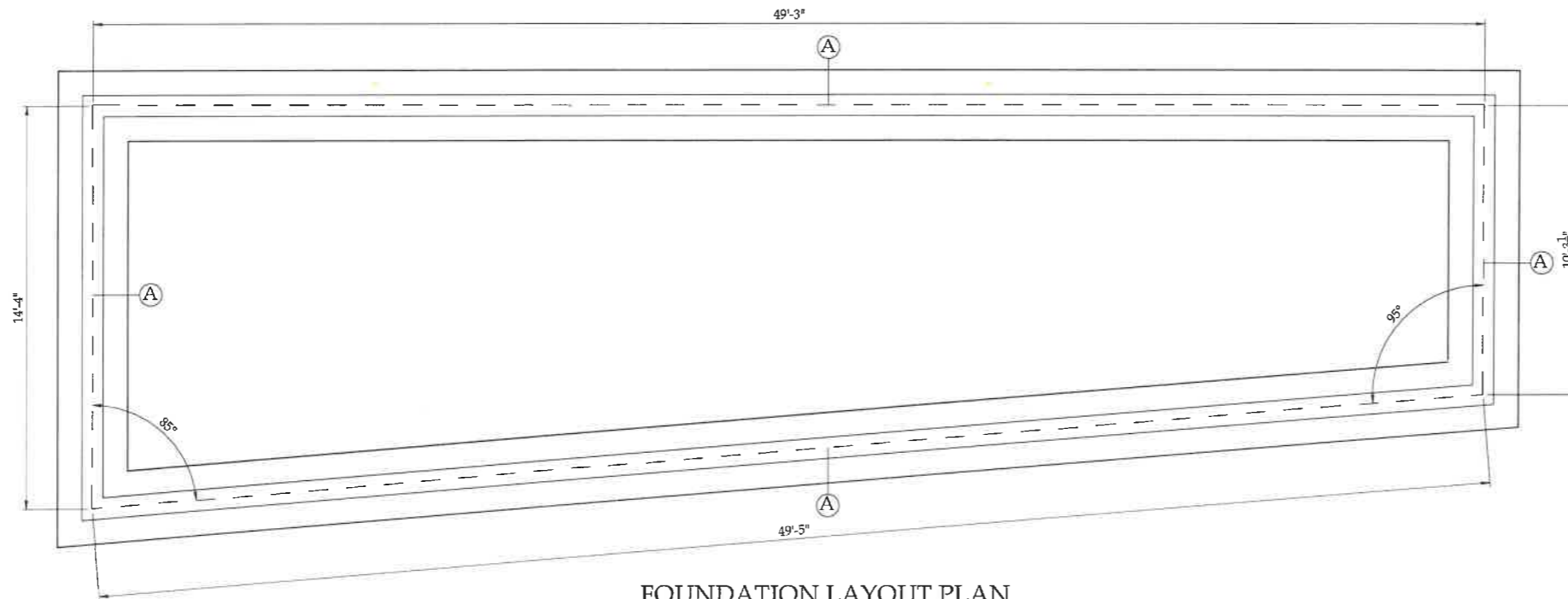


CONSULTANT: ASIAN CONSULTING ENGINEERS PVT (LTD)  
C-3 J-HELUM BLOCK, GREEN FORT-II, LAHORE PAKISTAN  
TELEPHONE: +92 42 35460914-5  
FAX: +92 42 35460916 WEB: www.asiancorp.com

SNGPL-C-01 to 07

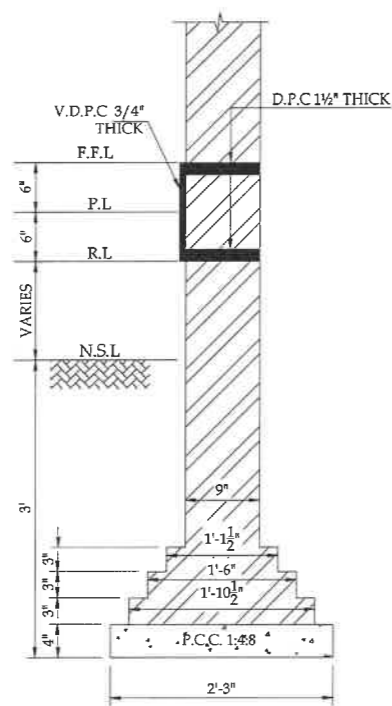
# Structure





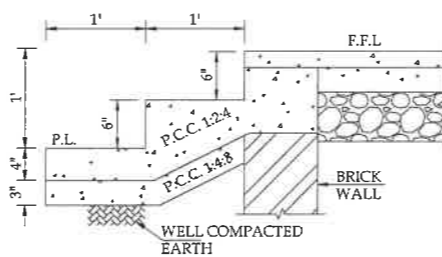
**FOUNDATION LAYOUT PLAN**

SCALE:- 1/4" = 1'-0"



**TYPE - A**

SCALE:- 3/4" = 1'-0"



**ENTRANCE STEP DETAIL**

SCALE:- 3/4" = 1'-0"

**NOTE:-**

1. THE DESIGN OF FOUNDATION IS BASED ON ASSUMED BEARING CAPACITY OF 0.75 TSF. CONTRACTOR/CLIENT REQUIRED TO CONFIRM BEFORE EXECUTION OF WORK.
2. USE CONCRETE HAVING MINIMUM CYLINDER STRENGTH OF 3000 PSI FOR STRUCTURAL MEMBERS AS 28 DAYS STRENGTH.
3. USE DEFORMED STEEL HAVING MINIMUM YIELD STRENGTH OF 60,000 PSI AS PER ASTM 615
4. CONCRETE COVER
  - I. FOUNDATION  
BOTTOM = 2"  
TOP = 2"  
SIDES = 3"
  - II. COLUMN = 1-1/2"
  - III. PLINTH BEAM = 2"
5. BRICK MASONRY IN SUB STRUCTURE WILL BE 1:6 CEMENT SAND MORTAR AND SUPER STRUCTURE WILL BE 1:5.
6. HORIZONTAL D.P.C. WILL BE 1 1/2" TH. P.C.C (1:2:4) WITH 1 COAT OF HOT BITUMEN 10/20@20 LBS/100SQFT ON ONE LAYER OF POLYTHENE SHEET, 500 GAUGE.
7. VERTICAL D.P.C. WILL BE 3/4" THICK VERTICAL D.P.C. 1:3 CEMENT SAND MORTAR WITH HOT BITUMEN 1 COAT 10/20 @ 20 LBS/100SQFT & ONE LAYER OF POLYTHENE SHEET, GAUGE 500.
8. THE CONNECTION OF COLUMN & MASONRY SHALL BE BY G.I. SHEET 4" WIDE, GAUGE 22 EXTENDING 5 FEET FROM FACE OF COLUMN, IN TWO LAYERS, 6 SHEETS ON EACH COLUMN (PER STOREY), 3 ON EITHER SIDE.
9. IN 4-1/2" THICK WALLS, A REINFORCEMENT OF 1" WIDE 18 GAUGE HOOP IRON SHALL BE PLACED IN COURSES NOT MORE THAN 12" APART AND CONTINUED FOR 9" INTO THE MAIN WALL ON WHICH THE PARTITION WALL ABUTS. IF THE PARTITION WALL EXCEEDS 20' IN LENGTH OR 15' HEIGHT, THE HOOP IRON SHALL BE INTRODUCED AT COURSES NOT MORE THAN 6' APART.
10. THE FOUNDATION IS DESIGN FOR SINGLE STOREY.



SNGPL  
 TITLE: SNGPL BUILDING  
 FOUNDATION LAYOUT PLAN &  
 SECTIONAL DETAILS

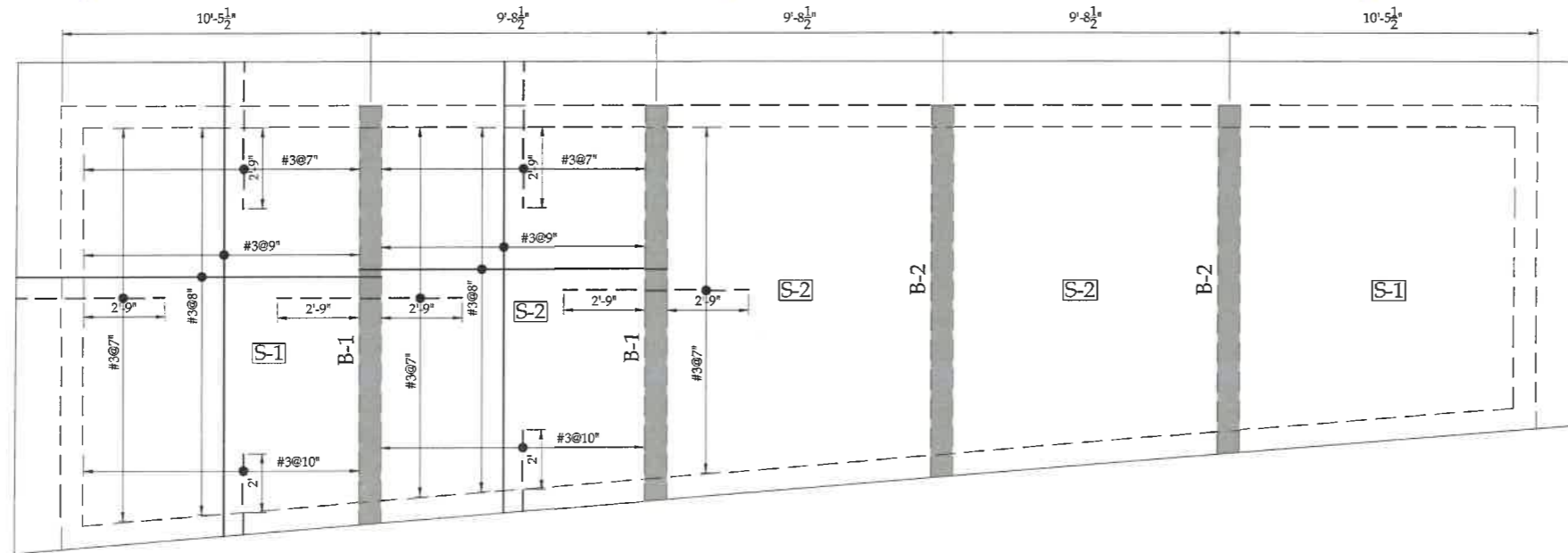
ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	M.ALI	ENGR. FURKAN	ENGR. FARHAN
02	17-04-2023	TENDER DRAWING	M.ALI	ENGR. FURKAN	ENGR. FARHAN

DRAWING NO: SNGPL-MHM-S-01 SHEET 00 REV 00

PROJECT:  
 DESIGN OF METERING  
 HALL SNGPL MULTAN



CONSULTANT:  
 ASIAN CONSULTING ENGINEERS PVT(LTD)  
 C-3 JHELMUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN  
 TELEPHONE: +92 42 35450914-5 +92 33-142-71101  
 FAX: +92 42 35450915 WEB: www.asiancorp.com

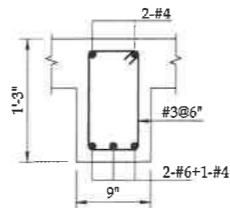


**ROOF SLAB REINFORCEMENT PLAN**

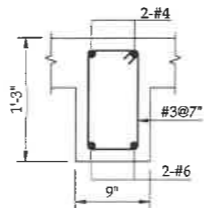
SCALE:- 1/4" = 1'-0"

**NOTE:**

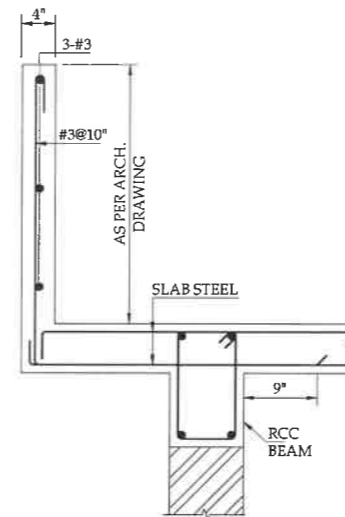
1. THICKNESS OF ALL SLABS IS 5" UNLESS OTHERWISE NOTED.
2. DISTRIBUTION TOP BARS #3@12" c/c.



**BEAM B-1**  
SCALE:- 3/4" = 1'-0"



**BEAM B-2**  
SCALE:- 3/4" = 1'-0"



**(TYP.) PARAPET DETAIL**  
SCALE:- 3/4" = 1'-0"



SNGPL

TITLE: SNGPL BUILDING  
ROOF SLAB REINFORCEMENT PLAN & BEAMS ELEVATION & SECTIONAL DETAILS

ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	12-03-2023	DRAFT TENDER	M.ALI	ENGR. M.ALI	ENGR. M.ALI
02	17-04-2025	TENDER DRAWING	M.ALI	ENGR. M.ALI	ENGR. M.ALI

DRAWING NO: SNGPL-MHM-S-02

ORIGINAL	DATE	SCALE
A2	DECEMBER 2025	

SHEET	REV
00	00

PROJECT: DESIGN OF METERING HALL SNGPL MULTAN



CONSULTANT: ASIAN CONSULTING ENGINEERS PVT.(LTD)  
C-3 JHELM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN  
TELEPHONE: +92 42 35450814-5 +92 32-142-71101  
FAX: +92 42 35450916 WEB: www.asiancon.com

# Electrical

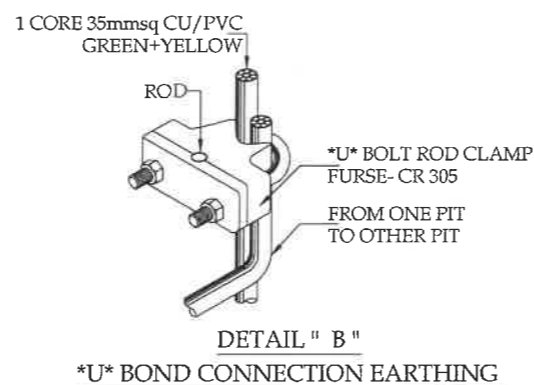
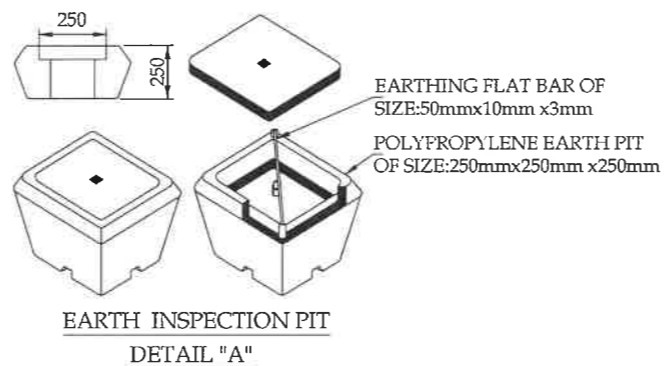
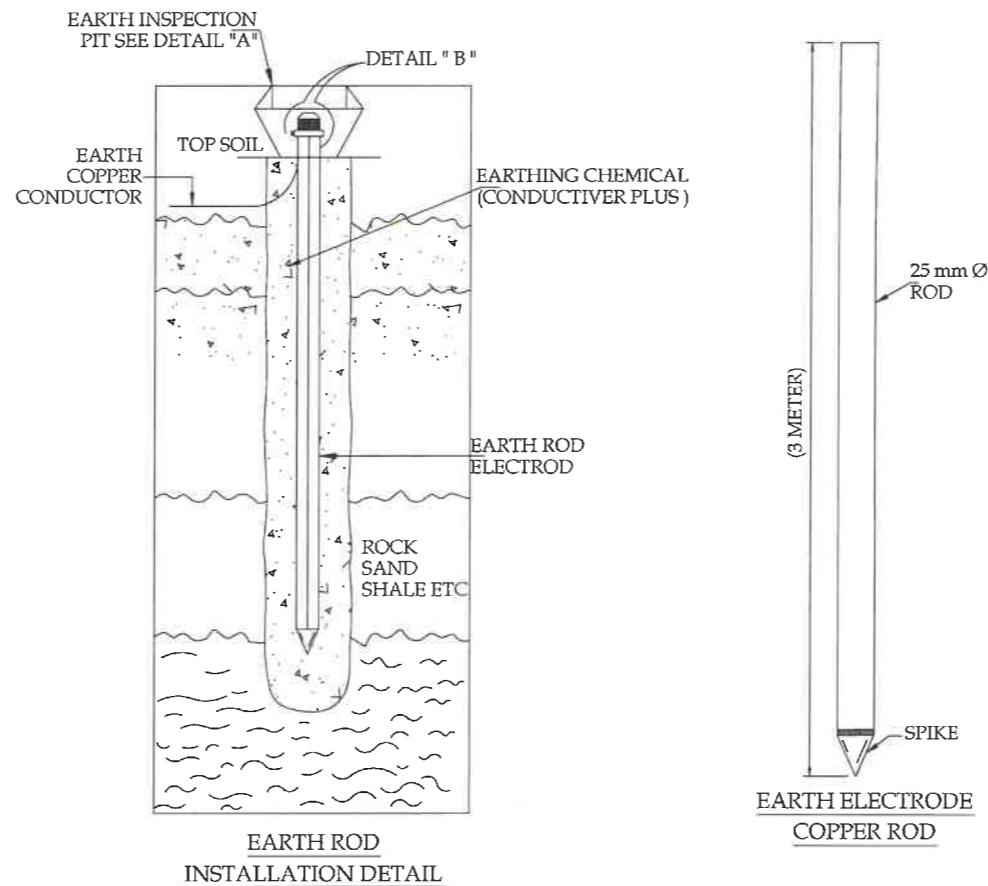


" LIGHTS & FAN "					
NO.	SYMBOL	DESCRIPTION	TYPE / DETAIL / SPEC		
			COLOR TEMP.	CRI	P.F
1	○	18W LED CEILING LIGHT	3000-6000K	> 80	> .95
2	—	30 WATT LED INDUSTRIAL LINEAR LIGHT	3000-6000K	> 80	> .95
3	⦿	WALL MOUNTED FANCY LIGHT WITH 12W LED LAMP	3000-6000K	> 80	> .95
4	⊗	56" Ø CEILING FAN WITH M.S HOOK	—	99.9% COPPER	—

" L.V SWITCH "				
NO.	SYMBOL	DESCRIPTION	TYPE	HIEGHT
1	●	10 AMP. 1 WAY FLUSH TYPE SWITCH (SWITCH BOARD).	GANG TYPE SWITCH	4'-0" F.F.L
2	⌒	5 AMP. LIGHT PLUG	3 PIN / 5 PIN	4'-0" F.F.L

" POWER "			
NO.	SYMBOL	DESCRIPTION	TYPE
1	⌒	3/5 PIN 13 AMP POWER SOCKET RECESSED TYPE.	3/5 PIN
2	▭	DISTRIBUTION BOARD " LIGHT & POWER "	IN DOOR TYPE
3	⦿	EARTHING SET ROD TYPE	—
4	□	PULL BOX 18"x18"	R.C.C/ BRICK

" CCTV, FIRE ALARM SYSTEM "				
NO.	SYMBOL	DESCRIPTION	TYPE	HIEGHT
1	📹	BULLET CAMERA	OUTDOOR TYPE	—
2	⊙	SMOKE DETECTOR	—	CEILING MOUNTING
3	📞	MANUAL CALL POINT WITH SOUNDER	—	BELL 8'-0" F.F.L MCP 4'-0" F.F.L




## GENERAL NOTES:-

- 01 ELECTRICAL WORKS**  
ALL ELECTRICAL WORKS PERTAINING TO WIRING OF ELECTRICAL SYSTEMS SHALL STRICTLY CONFORM TO BS CODES (BS 7671).
- 02 ELECTRICAL CONDUITING**  
ALL WIRING SHALL BE DONE IN PVC CONDUIT TO BE CONCEALED IN FALSE CEILING, WALLS, SLABS, COLUMNS AND FLOOR OR AS SHOWN ON DRAWINGS.
- 03 ELECTRICAL WIRING**  
THE WIRING SHOULD BE STARTED ONLY AFTER INSPECTION OF THE CONDUIT SYSTEM HAS BEEN COMPLETED AND ALL OUTLET BOXES ARE FIXED AT THEIR RESPECTIVE POSITIONS.
- 04 PVC CONDUITS**  
ALL PVC CONDUITS SHALL BE OF AS PER MENTIONED IN DRAWINGS & EVERY CONDUIT SHOULD BE 20% FREE SPACE (DEPENDING UPON NUMBER OF WIRES) FROM SWITCH BOARD TO LIGHT POINTS & 1" DIA FROM DBs TO SWITCH BOARDS AND POWER SOCKETS OR AS SHOWN ON DRAWINGS.
- 05 COLOUR CODING**  
COLOUR CODING FOR WIRING SHALL BE AS FOLLOWS:  
RED, YELLOW AND BLUE FOR PHASES, BLACK FOR NEUTRAL AND GREEN / YELLOW FOR CPC (EARTH).
- 06 EARTHING OF POINTS**  
ALL LIGHT POINTS AND POWER SOCKETS SHALL BE PROPERLY EARTHED WITH 1.5mm sq PVC INSULATED WIRES OF COLOUR YELLOW / GREEN.
- 07 CAPACITY OF CONDUITS**  
THE NUMBER OF WIRES TO BE PULLED IN ANY CONDUIT FOR WIRING PURPOSES SHALL CONFORM TO BS CODES (BS EN 61386-25:2011) & HAVE 30% CLEARANCE.
- 08 OTHER SYSTEMS**  
1" DIA PVC CONDUIT SHALL BE USED FOR WIRING OF ALL OTHER SYSTEMS UNLESS OTHERWISE MENTIONED ON PLANS OR AS SPECIFIED IN BOQ.
- 09 ELECTRICAL CONSULTANT**  
ELECTRICAL CONTRACTOR TO CONSULT ELECTRICAL CONSULTANT/ENGINEER FOR ANY FURTHER CLARIFICATIONS. NO ASSUMPTIONS SHOULD BE MADE.
- 10 FERRULING**  
FERRULING SHOULD BE DONE ON ALL CIRCUITS FOR LIGHT & POWER & FERRULING SAMPLE SHOULD BE APPROVED BY THE ENGINEER / CONSULTANT.

### NOTES FOR EARTHING SYSTEM

- 1- EARTH BORE SHALL BE MADE AT 6'-0" AWAY FROM R.C.C FOUNDATION.
- 2- DISTANCE BETWEEN 2 EARTH BORES SHALL NOT BE LESS THEN 10'-0"
- 3- COPPER CONDUCTOR AT TOP SHALL BE BOLTED WITH THIMBLES, BRASS NUTS, BOLTS ETC./ WELD POWDER.
- 4- JOINTS SHALL BE COVERED WITH HEAT SHRINKABLE TAPE.
- 5- CONTRACTOR TO MEASURE EARTHING RESISTANCE IN THE PRESENCE OF SITE ENGINEER. BOTH THE SITE ENGINEER AND CONTRACTOR SHALL SIGN THE EARTH TESTING RESULT AND SUBMIT IT TO THE CLIENT FOR RECORD WITH EQUIPMENT CALIBRATION CERTIFICATE.
- 6- THE EARTH RESISTANCE VALUE AFTER INSTALLATION SHALL BE LESS THAN ONE (1) OHM.
- 7- ALL MATERIAL OF THE ELECTRODE WILL BE OF COPPER.
- 8- THE EARLY STEAMER ROD WILL BE HANGED WITH PROPER HANGING ARRANGEMENT.



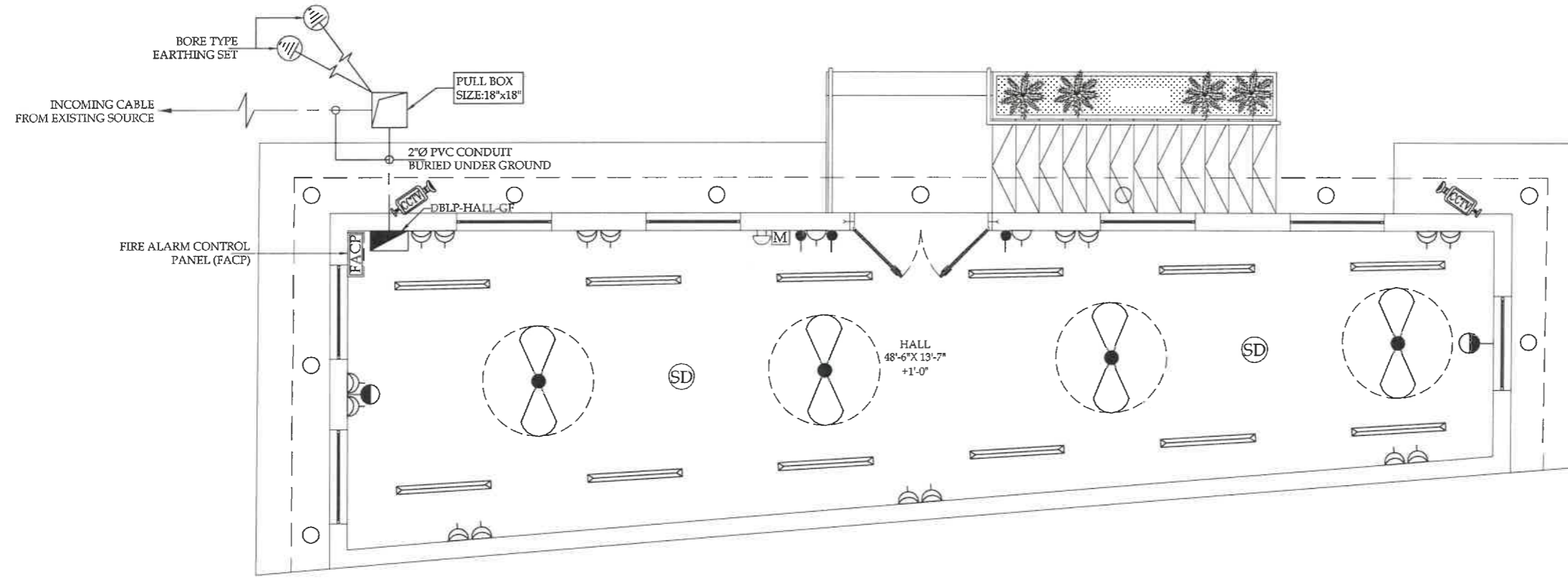
SNGPL	
TITLE: SNGPL BUILDING ELECTRICAL LEGEND & EARTHING DETAIL	
ORIGINAL	DATE: MAY, 2025
SCALE:	
ISSUE NO.	DESCRIPTION
01	03-05-2025 DRAFT TENDER
02	05-05-2025 TENDER DRAWING
DRAWING NO.: SNGPL-MHM-E-01	
SHEET: 00	REV: 00
PROJECT: DESIGN OF METERING HALL SNGPL MULTAN	
CLIENT: 	
CONSULTANT: ASIAN CONSULTING ENGINEERS (PVT) LTD C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN TELEPHONE: +92 42 35450914-5 FAX: +92 42 35450916 WEB: www.asiancon.com	

" LIGHTS & FAN "					
NO.	SYMBOL	DESCRIPTION	TYPE / DETAIL / SPEC		
			COLOR TEMP.	CRI	P.F
1	○	18W LED CEILING LIGHT	3000-6000K	> 80	> .95
2	—	30 WATT LED INDUSTRIAL LINEAR LIGHT	3000-6000K	> 80	> .95
3	⊙	WALL MOUNTED FANCY LIGHT WITH 12W LED LAMP	3000-6000K	> 80	> .95
4	⊗	56" Ø CEILING FAN WITH M5 HOOK	—	99.9% COPPER	—

" POWER "				
NO.	SYMBOL	DESCRIPTION	TYPE	
1	⊕	3/5 PIN 13 AMP POWER SOCKET RECESSED TYPE.	3/5 PIN	
2	□	DISTRIBUTION BOARD " LIGHT & POWER "	IN DOOR TYPE	
3	⊕	EARTHING SET ROD TYPE	—	
4	□	PULL BOX 18"x18"	R.C.C/ BRICK	

" L.V SWITCH "				
NO.	SYMBOL	DESCRIPTION	TYPE	HIEGHT
1	●	10 AMP. 1 WAY FLUSH TYPE SWITCH (SWITCH BOARD).	GANG TYPE SWITCH	4'-0" F.F.L
2	⊕	5 AMP. LIGHT PLUG	3 PIN / 5 PIN	4'-0" F.F.L

" CCTV, FIRE ALARM SYSTEM "				
NO.	SYMBOL	DESCRIPTION	TYPE	HIEGHT
1	⊕	BULLET CAMERA	OUTDOOR TYPE	—
2	⊕	SMOKE DETECTOR	—	CEILING MOUNTING
3	⊕	MANUAL CALL POINT WITH SOUNDER	—	BELL-8'-0" F.F.L MCP-4'-0" F.F.L



**GROUND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"





**SNGPL**  
TITLE: **SNGPL BUILDING CO-ORDINATION LAYOUT PLAN GROUND FLOOR**

ORIGINAL	A2	DATE	MAY, 2025	SCALE	
ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	AVAS	ENGR. HAFIZ	ENGR. HAFIZ
02	26-05-2023	TENDER DRAWING	AVAS	ENGR. HAFIZ	ENGR. HAFIZ

DRAWING NO: **SNGPL-MHM-E-02** SHEET **00** REV **00**

PROJECT: **DESIGN OF METERING HALL SNGPL MULTAN**

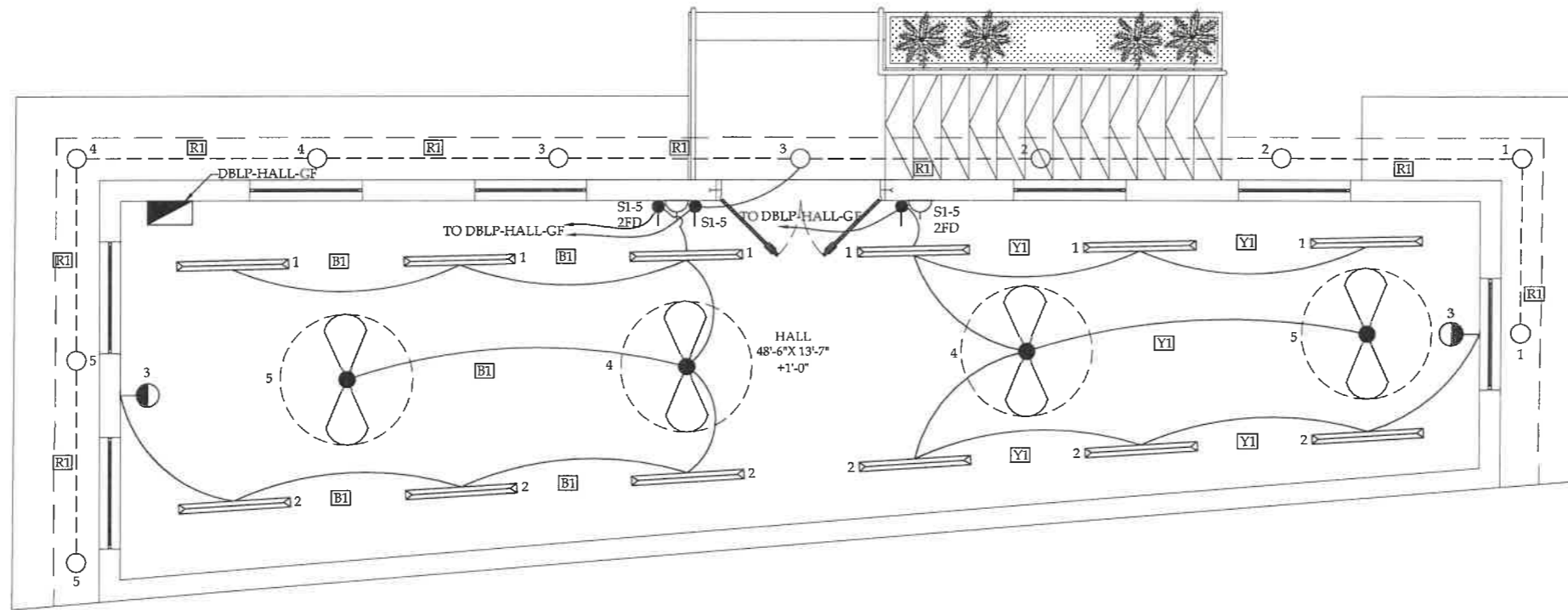
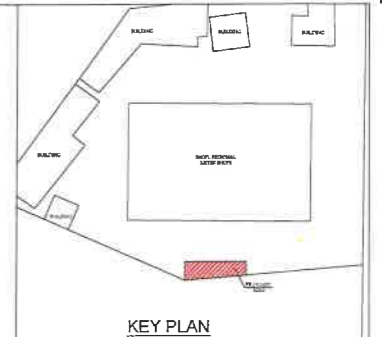
CLIENT:  **Sui Northern Gas Pipelines Limited SNGPL**

CONSULTANT:  **ASIAN CONSULTING ENGINEERS PVT (LTD)**  
C-3 BHELM BLOCK, GREEN FORT-8, LAHORE, PAKISTAN  
TELEPHONE: +92 42 3545014-5 FAX: +92 42 3545016 WEB: www.asiancon.com

SNGPL-E-02

" LIGHTS & FAN "					
NO.	SYMBOL	DESCRIPTION	TYPE / DETAIL / SPEC		
			COLOR TEMP.	CRI	P.F
1	○	18W LED CEILING LIGHT	3000-6000K	> 80	> .95
2	▬	30 WATT LED INDUSTRIAL LINEAR LIGHT	3000-6000K	> 80	> .95
3	⊙	WALL MOUNTED FANCY LIGHT WITH 12W LED LAMP	3000-6000K	> 80	> .95
4	⊗	56" Ø CEILING FAN WITH M.S HOOK	—	99.9% COPPER	—

" L.V SWITCH "				
NO.	SYMBOL	DESCRIPTION	TYPE	HIEGHT
1	●	10 AMP; 1 WAY FLUSH TYPE SWITCH (SWITCH BOARD).	GANG TYPE SWITCH	4'-0" F.F.L
2	⊖	5 AMP; LIGHT PLUG	3 PIN / 5 PIN	4'-0" F.F.L



**GROUND FLOOR PLAN**  
SCALE:- 1/4" = 1'-0"




SNGPL  
TITLE: SNGPL BUILDING LIGHTING LAYOUT PLAN GROUND FLOOR


ORIGINAL: A2 DATE: MAY, 2025 SCALE:





ISSUE NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
D1	13-03-2023	DRAFT TENDER	AWAIS	ENGIR	ENGIR
D2	26-05-2025	TENDER DRAWING	AWAIS	ENGIR	ENGIR

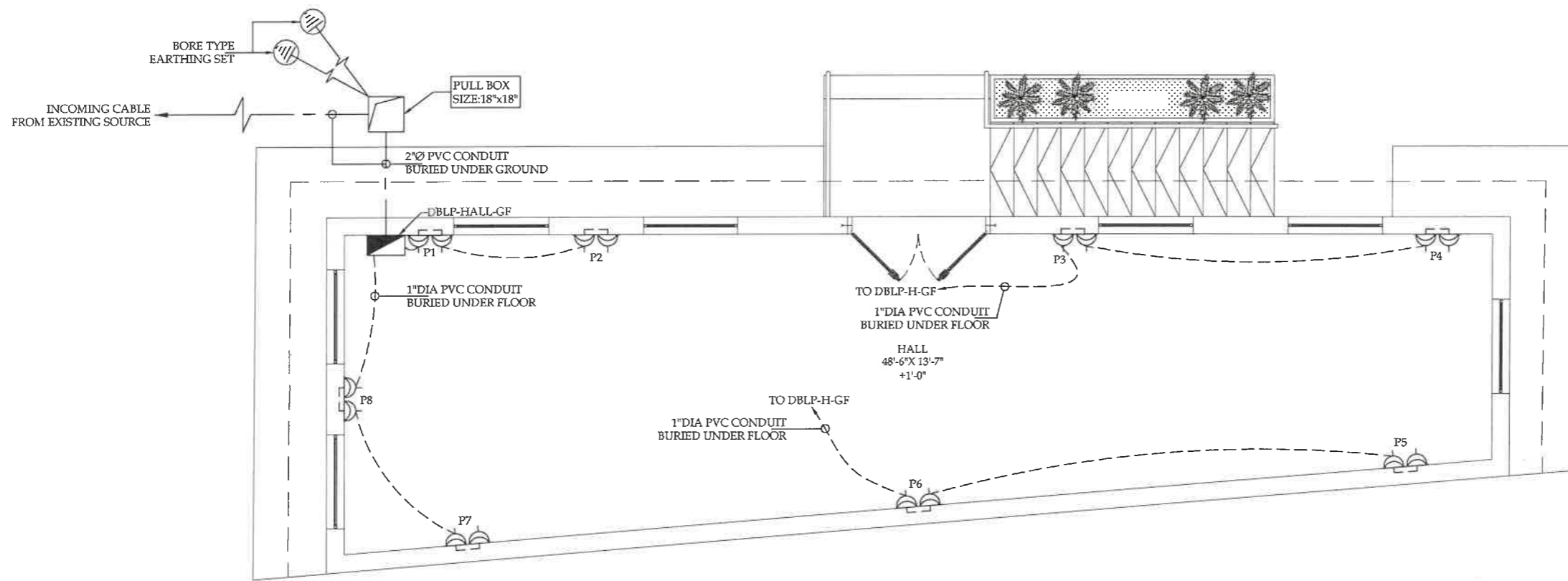
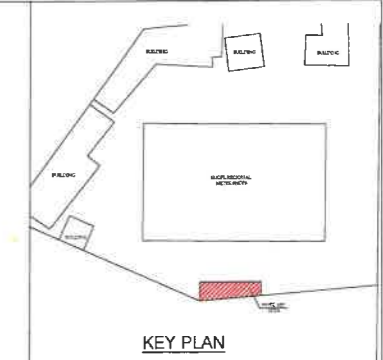
DRAWING NO.: SNGPL-MHM-C-03 SHEET 00 REV 00



PROJECT: DESIGN OF METERING HALL SNGPL MULTAN

CLIENT:  Sui Northern Gas Pipelines Limited SNGPL




CONSULTANT:  ASIAN CONSULTING ENGINEERS PVT.(LTD)  
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN  
TELEPHONE: +92-42-3545014-5 FAX: +92-42-3545015 WEB: www.asiancon.com

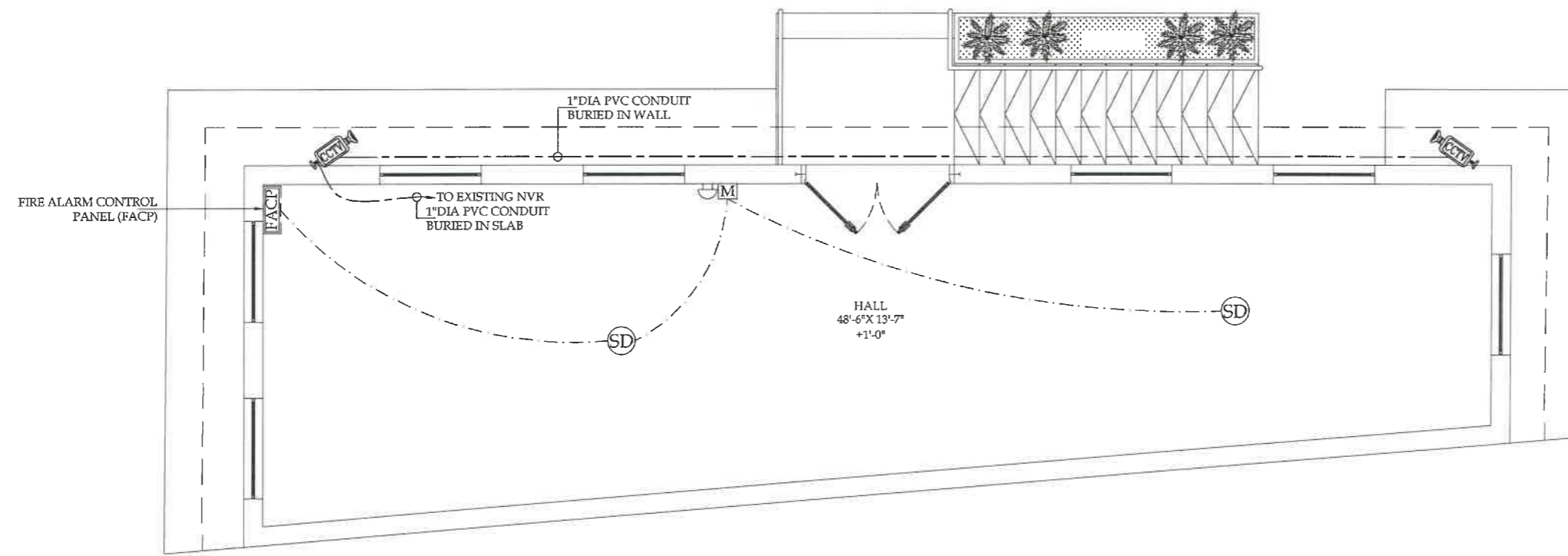
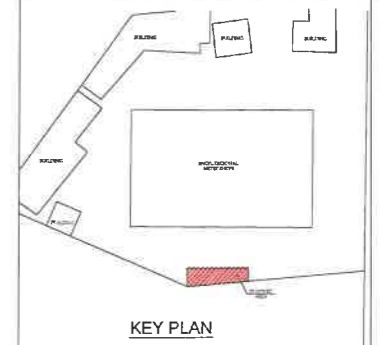
" POWER "			
NO.	SYMBOL	DESCRIPTION	TYPE
1		3/5 PIN 13 AMP POWER SOCKET RECESSED TYPE.	3/5 PIN
2		DISTRIBUTION BOARD " LIGHT & POWER "	IN DOOR TYPE
3		EARTHING SET ROD TYPE	_____
4		PULL BOX 18"x18"	R.C.C/ BRICK



SNGPL			
TITLE: SNGPL BUILDING POWER, TELEPHONE & DATA LAYOUT PLAN-GROUND FLOOR			
ORIGINAL	A2	DATE: MAY, 2025	SCALE:
DATE	DESCRIPTION	DRAWN	DESIGNED
13-03-2023	DRAFT TENDER	AWAIS	SHOH
26-05-2025	TENDER DRAWING	AWAIS	SHOH
DRAWING N°:		SHEET	REV
SNGPL-MHM-E-04		00	00
PROJECT: DESIGN OF METERING HALL SNGPL MULTAN			
CLIENT: 			
CONSULTANT:  ASIAN CONSULTING ENGINEERS PVT. (P) LTD. C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN TELEPHONE: +92 42 35420145 FAX: +92 42 35420115 WEB: www.asiancon.com			

SNGPL-E-04

" CCTV, FIRE ALARM SYSTEM "				
NO.	SYMBOL	DESCRIPTION	TYPE	HIEGHT
1		BULLET CAMERA	OUTDOOR TYPE	-----
2		SMOKE DETECTOR	-----	CEILING MOUNTING
3		MANUAL CALL POINT WITH SOUNDER	-----	BELL-8'-0" F.F.L MCP-4'-0" F.F.L



GROUND FLOOR PLAN  
SCALE: 1/4" = 1'-0"



SNGPL  
TITLE  
SNGPL BUILDING  
FIRE ALARM & CCTV SYSTEM  
LAYOUT PLAN-GROUND FLOOR

ORIGINAL	A2	DATE	SCALE
		MAY, 2025	

REV#	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	AYANIS	FAHIM	SHAFIQ
02	26-05-2025	TENDER DRAWING	AYANIS	FAHIM	SHAFIQ

DRAWING N°:  
SNGPL-MHM-E-05

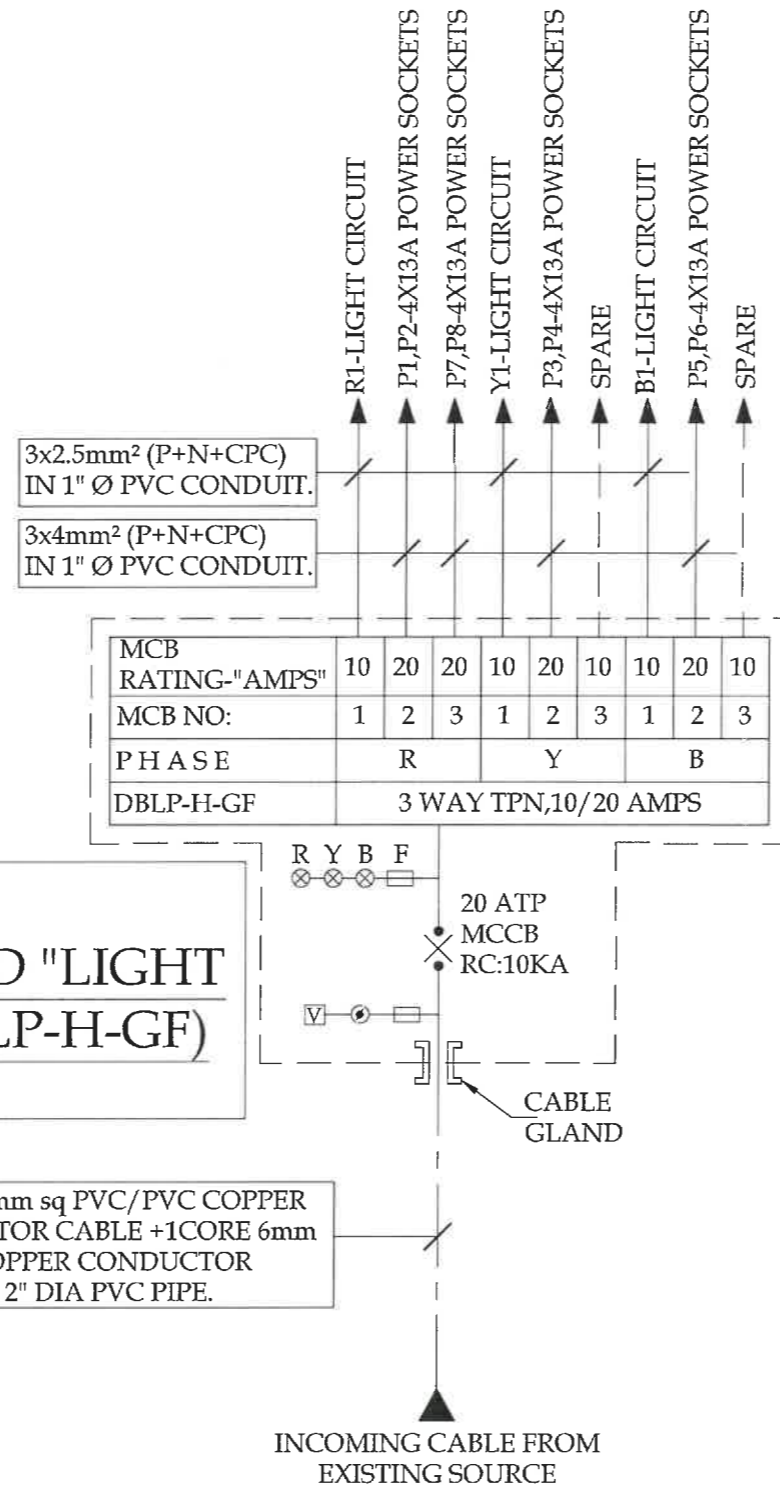
SHEET 00 REV 00

PROJECT:  
DESIGN OF METERING HALL SNGPL MULTAN



CONSULTANT:  
ASIAN CONSULTING ENGINEERS (PVT.) LTD.  
C-3 SHELLUM BLOCK, GREEN FORT-4, LAHORE, PAKISTAN  
TELEPHONE: +92 42 3545014-5  
FAX: +92 42 3545016 WEB: www.asiancon.com

**DETAIL OF :-  
DISTRIBUTION BOARD "LIGHT  
& POWER"-HALL (DBLP-H-GF)  
INSTALLED IN HALL AT GROUND FLOOR.**



4 CORE 6mm sq PVC/PVC COPPER CONDUCTOR CABLE + 1CORE 6mm sq PVC COPPER CONDUCTOR CABLE IN 2" DIA PVC PIPE.

**LEGEND & ABBREVIATIONS**

- PHASE INDICATION LAMPS
- VOLT METER
- SELECTOR SWITCH
- FUSE
- BRASS CABLE GLAND
- MCB — MINIATURE CIRCUIT BREAKER
- RC — RUPTURING CAPACITY
- KA — KILO AMPERE
- MCCB — MOULDED CASE CIRCUIT BREAKER
- ATP — AMPERE TRIPLE POLE



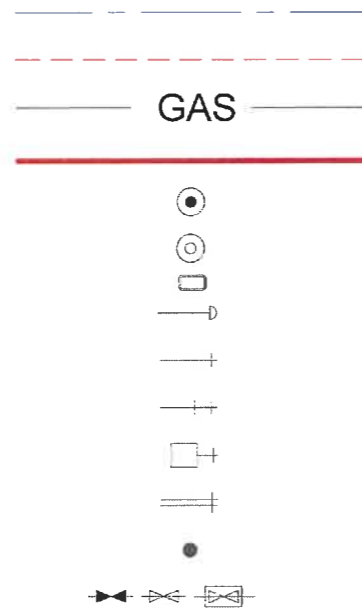
SNGPL		TITLE: SNGPL BUILDING	
SINGLE LINE DIAGRAM OF:-		DISTRIBUTION BORD "LIGHT & POWER"	
ORIGINAL	A2	DATE	MAY, 2023
SCALE:			
ISSUE NO	DATE	DESCRIPTION	DRAWN
01	13-03-2023	DRAFT TENDER	ANWAS
02	26-05-2023	TENDER DRAWING	ANWAS
DRAWING NO:		SHEET	REV
SNGPL-MHM-E-06		00	00
PROJECT: DESIGN OF METERING HALL SNGPL MULTAN			
CLIENT:			
CONSULTANT:			

# Plumbing



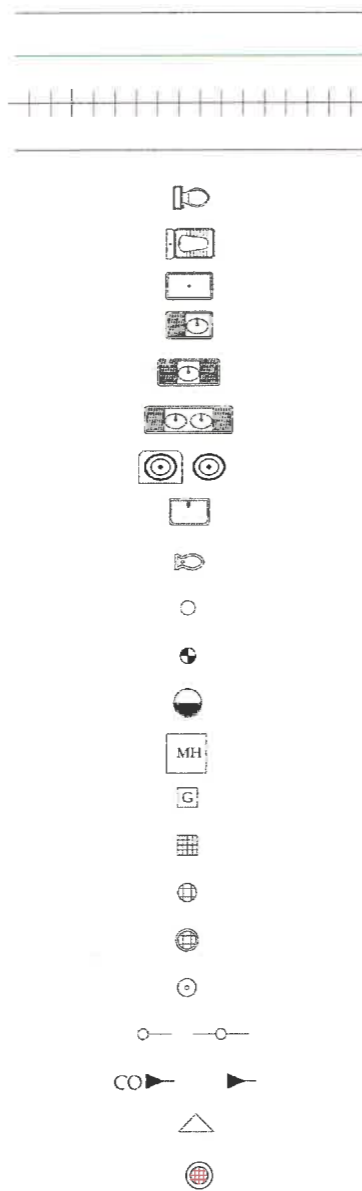
## LEGEND (WATER SUPPLY) :

COLD WATER PIPE  
HOT WATER PIPE  
GAS PIPE  
FIRE FIGHTING PIPE  
ELECTRIC GEYSER  
GAS GEYSER  
GAS INSTANT GEYSER  
SHOWER  
WATER TAP  
WATER TAP + MUSLIM SHOWER  
GARDEN HYDRANT  
COLD AND HOT WATER MIXING UNIT  
WATER STACK  
BALL VALVE/GATE VALVE / WITH CHAMBER



## LEGEND BUILDING DRAINAGE

SOIL PIPE (uPVC)  
WASTE PIPE (uPVC)  
SOIL OR WASTE PIPE (uPVC) ENCASED  
RCC SEWER PIPE  
W-C ENGLISH TYPE  
W-C ASIAN TYPE  
KITCHEN SINK BOWL  
KITCHEN SINK SINGLE BOWL, SINGLE TRAY  
KITCHEN SINK SINGLE BOWL, DOUBLE TRAY  
KITCHEN SINK DOUBLE BOWL, DOUBLE TRAY  
WASH HAND BASIN/ COUNTER VANITY  
LABORATORY SINK  
URINAL  
SOIL / WASTE STACK  
VENT STACK  
MANHOLE TYPE - A  
MANHOLE TYPE - B  
GULLY TRAP WITH CI COVER.  
GULLY TRAP WITH GRATING  
FLOOR TRAP.  
P TRAP WITH GRATING.  
BOTTLE NECK TRAP C.P BRASS.  
WASTE BEND / TEE  
CLEAN OUT / CLEANING EYE  
GAS METER  
HEAVY DUTY CLEAN OUT (HCO)



## ABBREVIATIONS

WHB WASH HAND BASIN  
WC WATER CLOSET  
C/W COLD WATER  
H/W HOT WATER  
C/H COLD & HOT WATER  
M/W MIXED WATER  
MH MAN HOLE  
GT GULLY TRAP  
FT FLOOR TRAP  
FF FIRE FIGHTING  
ASP ANTI SYPHONIC PIPE  
LG/F LOWER GROUND FLOOR  
UG/F UPPER GROUND FLOOR  
G/F GROUND FLOOR  
F/F FIRST FLOOR  
S/F SECOND FLOOR  
T/F THIRD FLOOR

PE/PPRC/uPVC PIPES			
PIPE SIZE MENTIONED IN THE DRAWING	EQUAL TO PIPE SIZE		
	PE	PPRC	uPVC
1/2"Ø	20mm O/D	20mm O/D	---
3/4"Ø	25mm O/D	32mm O/D	---
1"Ø	32mm O/D	40mm O/D	---
1 1/4"Ø	40mm O/D	50mm O/D	---
1 1/2"Ø	50mm O/D	63mm O/D	40mm O/D
2"Ø	63mm O/D	75mm O/D	50mm O/D
2 1/2"Ø	75mm O/D	90mm O/D	---
3"Ø	90mm O/D	110mm O/D	75mm O/D
4"Ø	125mm O/D	---	110mm O/D
5"Ø	160mm O/D	---	---
6"Ø	180mm O/D	---	160mm O/D
8"Ø	250mm O/D	---	200mm O/D

## PIPE SLOPES

300mmØ 12"Ø 1 IN 330  
225mmØ 9"Ø 1 IN 225  
160mmØ 6"Ø 1 IN 180  
110mmØ 4"Ø 1 IN 100  
75mmØ 3"Ø 1 IN 75  
50mmØ 2"Ø 1 IN 50

## GENERAL NOTES

- ALL SOIL AND WASTE PIPES SHALL BE uPVC CONFORMING TO ISO 3633 / PS 3214 TYPE 'B'.
- ALL VENT OR ASP PIPES SHALL BE uPVC CONFORMING TO ISO 3633 / PS 3214 TYPE 'B'. ALL VENT PIPES SHALL BE UPTO 1' ABOVE OF FINISHED ROOF LEVEL.
- ALL JOINTS FOR uPVC PIPES AND FITTING SHALL BE MADE WITH SOLVENT CEMENT SOCKET CONFORMING TO ISO 3633 : 1991 AND WHERE NECESSARY RUBBER RING SOCKET JOINT CONFORMING TO DIN 19560 SHALL BE PROVIDED.
- PIPES FOR COLD WATER SUPPLY INSIDE THE TOILETS UPTO CONNECTION FROM STACKS/BUILDING OUTER LINE SHALL BE POLYPROPYLENE RANDOM CONFORMING TO DIN 8077 - 8078 - PN 10 AND FITTINGS CONFORMING TO DIN 16962 - PN 25, AND SHALL BE THERMALLY ISOLATED.
- PIPES FOR HOT WATER SUPPLY SHALL BE POLYPROPYLENE RANDOM CONFORMING TO DIN 8077 - 8078 - PN 20 AND FITTINGS CONFORMING TO DIN 16962 - PN 25 AND SHALL BE THERMALLY ISOLATED.
- ALL PIPE DIAMETER, INCLUDING RCC SHOWN ON THE DRAWINGS MEAN INNER DIAMETER OF THE SAME OR OTHERWISE MENTIONED.
- ALL EXTERNAL WATER SUPPLY PIPES SHALL BE OF POLYETHYLENE (PE) SDR - 11 CONFORMING TO DIN 8074 / 8075 AND PS - 3580 - 1994 AND PE FITTINGS, SPECIALS CONFORMING TO ISO 3458, 3459, 3501, 3503 BS 5114. OR G.I WHERE MENTIONED ON THE DRAWINGS OR EXPOSE TO SUNLIGHT.
- ALL WATER SUPPLY PPR/PE PIPE SIZES SHALL BE BASED ON OUTER DIA UNLESS OTHERWISE MENTIONED.
- ALL PIPES MANHOLE TO MANHOLE SHALL BE R.C.C. 9" Ø OR OTHERWISE MENTIONED ON THE DRAWINGS.
- GULLY TRAP TO MANHOLE, uPVC PIPES AS LISTED IN NOTE Nr. 1 SHALL BE USED
- INSTALLATION OF INSTANT TYPE GAS GEYSER SHOULD BE STRICTLY AS PER INSTRUCTIONS OF THE MANUFACTURERS MOREOVER IT SHOULD BE INSTALLED IN OPEN TO SKY LOCATION WITH G.I SHEET SHELTER, IF UNAVOIDABLY BE INSTALLED IN COVERED AREA THEN ADEQUATE VENT ARRANGEMENT BE PROVIDED TO AVOID ANY TYPE OF INCIDENT / DISCOMFORT
- ELECTRIC WATER HEATER SHALL BE CLAMPED WITH THE WALL AT 6' CLEAR HEIGHT.
- ALL PPRC, PE AND uPVC PIPES SHALL BE IN THE DUCTS, EMBEDDED IN WALLS OR SOME SUITABLE ARRANGEMENT SHALL BE MADE, AS PER SITE SITUATION, TO AVOID DIRECT CONTACT WITH THE SUNLIGHT, AS PER INSTRUCTIONS OF THE ENGINEER INCHARGE.
- ALL BUILDING DRAINAGE PIPES SHALL HAVE A MINIMUM SLOPE AS MENTIONED ABOVE AND PROVISION OF CLEAN OUT/CLEANING EYES ACCORDING TO MANDATORY REGULATIONS.
- WHERE SITE SITUATION ALLOW MORE THAN ONE VENT STACKS MAY BE COMBINE INTO ONE STACK, MOREOVER IF LEVELS AND PIPE CROSSINGS HELP AT SITE, PROVISION OF ONE GULLY TRAP MAY BE ADAPTED INSTEAD OF TWO OR THREE.
- USE CONCRETE (1:2:4) MIN. 3" THICK ENCASEMENT TO ALL BUILDING DRAINAGE PIPES
- ROOF DRAINAGE SLOPE SHOULD BE 0.3%.
- LOCATION AND SIZE OF SELVES FOR SOIL/WASTE PIPES SHOULD BE ESTABLISHED BY THE CONTRACTOR IN THE SHOP DRAWINGS FOR APPROVAL FROM THE ENGINEER INCHARGE.



SNGPL  
TITLE: SNGPL BUILDING  
LEGEND PLUMBING

ORIGINAL:	DATE:	SCALE:
A2	MAY, 2025	

ISSUE NO	DATE	DESCRIPTION	DRAWN (DESIGNED)	APPROVED
01	13-02-2025	DRAFT TENDER	DANIAL	ENGR. USMAN
02	26-05-2025	TENDER DRAWING	DANIAL	ENGR. USMAN

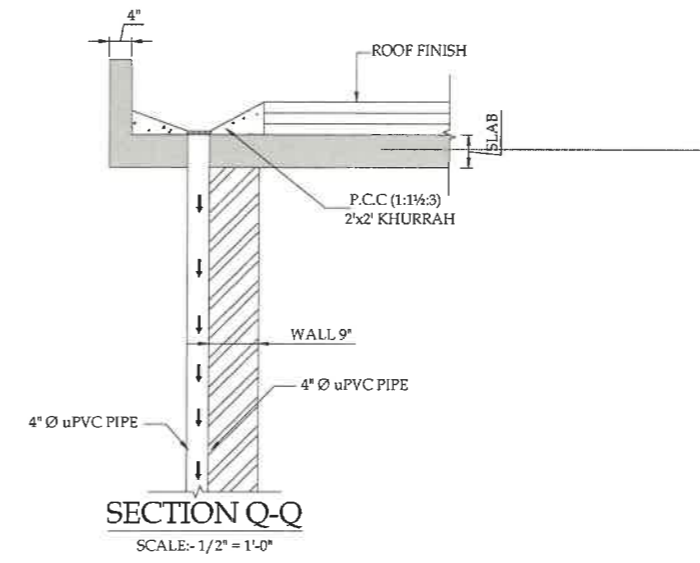
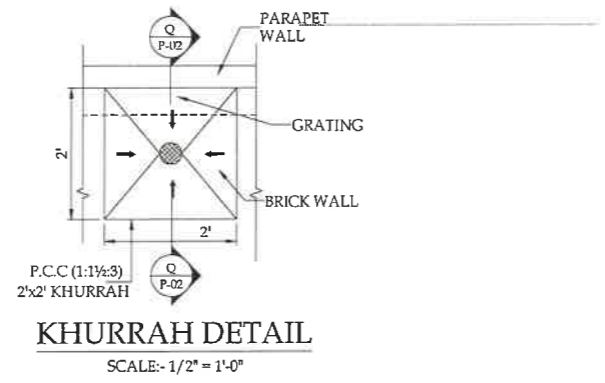
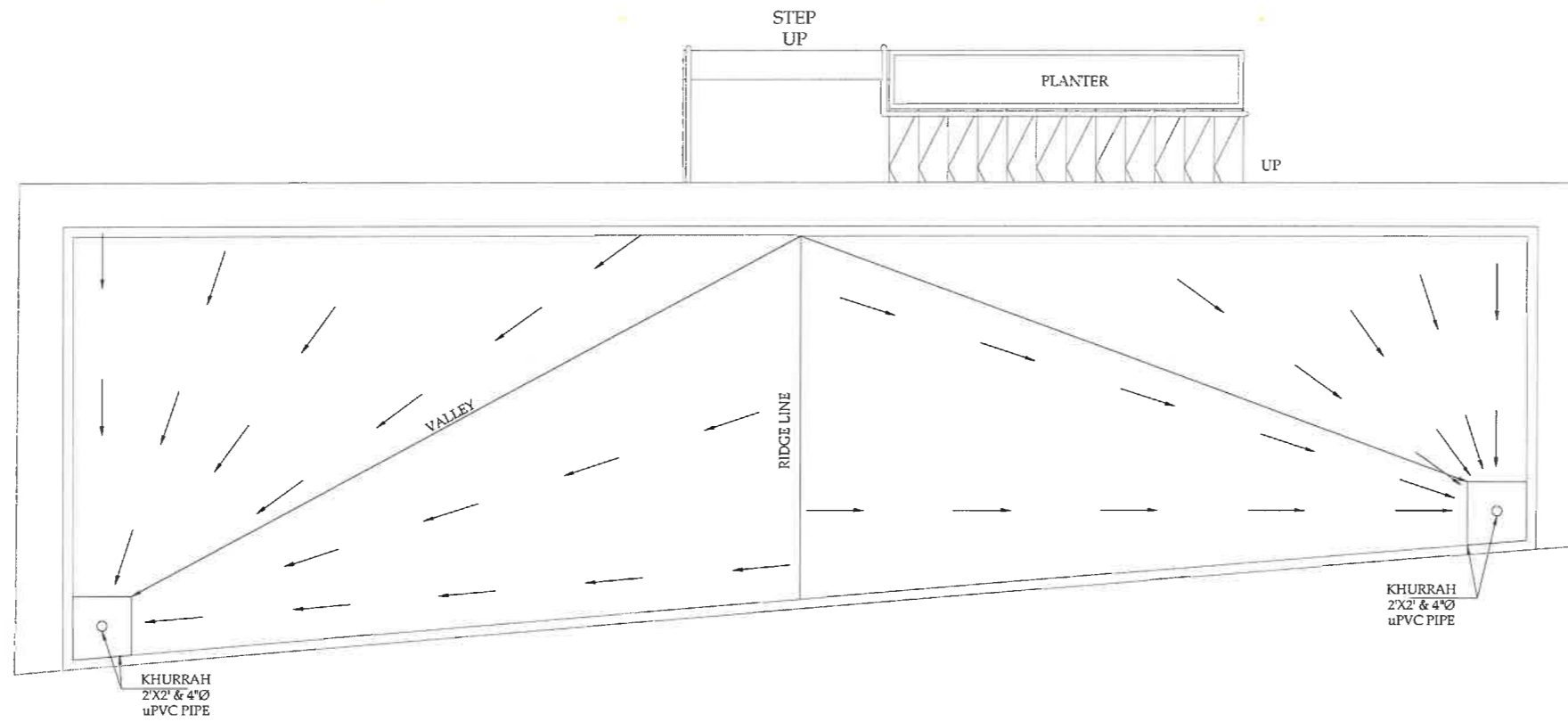
DRAWING NO: SNGPL-MHM-P-01 SHEET 00 REV 00

PROJECT: DESIGN OF METERING HALL SNGPL MULTAN

CLIENT:

CONSULTANT:

ASIAN CONSULTING ENGINEERS (PVT) LTD  
C-3, HELM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN  
TELEPHONE: +92 42 3545091-45  
FAX: +92 42 35450916 WEB: www.asiancon.com





SNGPL  
TITLE: SNGPL BUILDING  
ROOF DRAINAGE PLAN

DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
13-03-2023	DRAFT TENDER	BANITAL	USAF	USAF
26-05-2023	TENDER DRAWING	BANITAL	USAF	USAF

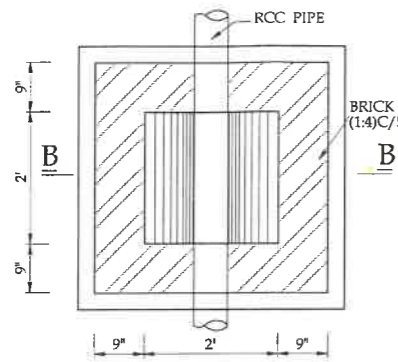
DRAWING NO: SNGPL-MHM-P-02  
SHEET 00 REV 00

PROJECT: DESIGN OF METERING HALL SNGPL MULTAN

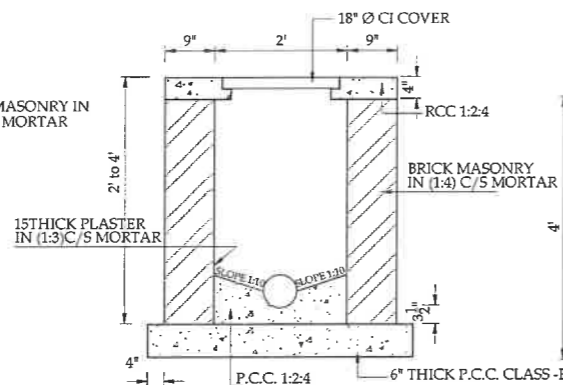
CLIENT:  Old Northern Gas Pipelines Limited SNGPL

CONSULTANT:  ASIAN CONSULTING ENGINEERS (PVT) LTD  
C-3 JHELLUM BLOCK, GREEN FORT-II LAHORE, PAKISTAN  
TELEPHONE: +92 42 3545091-45  
FAX: +92 42 35460918 WEB: www.asiancon.com

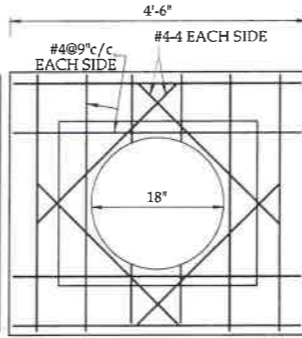
SNGPL-MHM-P-02



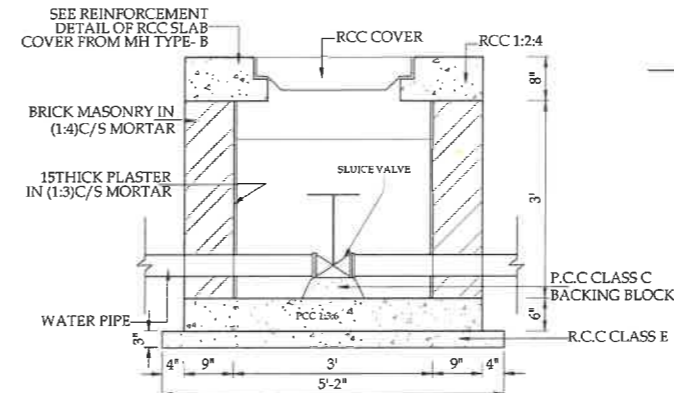
PLAN OF MANHOLE 2'x2'  
SCALE:- 1/2" = 1'-0"



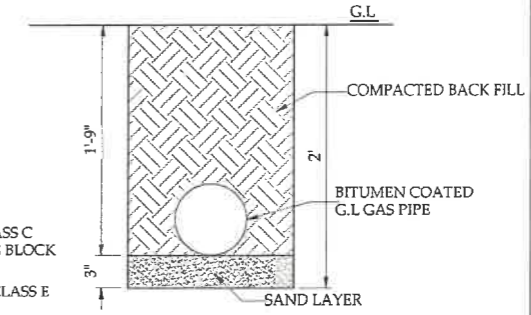
SECTION BB  
SCALE:- 1/2" = 1'-0"



REINF. DETAIL OF TYPE-A  
SCALE:- 1/2" = 1'-0"

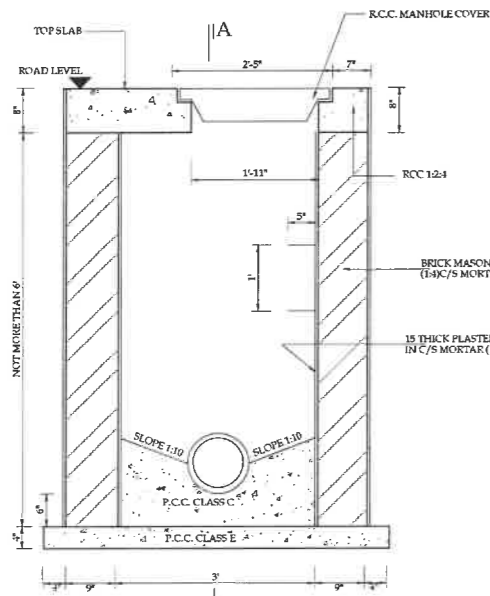


SLUICE VALVE CHAMBER  
SCALE:- 1/2" = 1'-0"

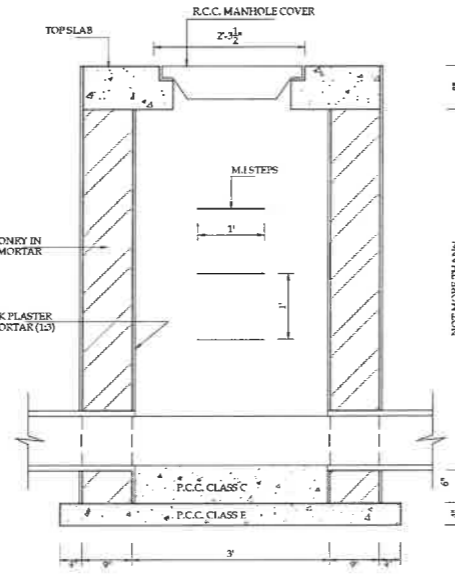


GAS PIPE DETAIL  
SCALE:- 1" = 1'-0"

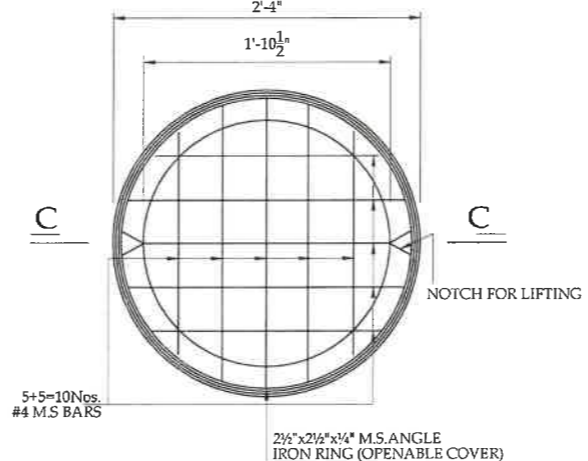
MANHOLE TYPE-A  
SCALE:- 1/2" = 1'-0"



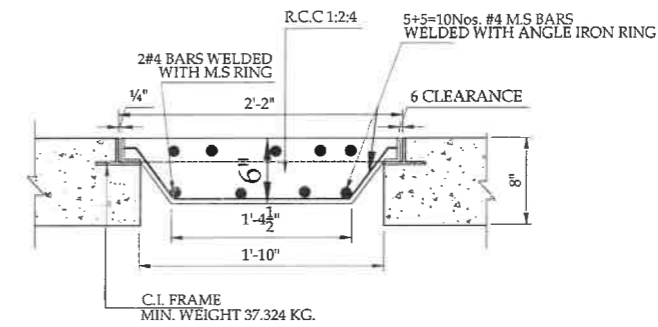
SECTIONAL ELEVATION  
SCALE:- 3/4" = 1'-0"



SECTION A-A  
SCALE:- 3/4" = 1'-0"

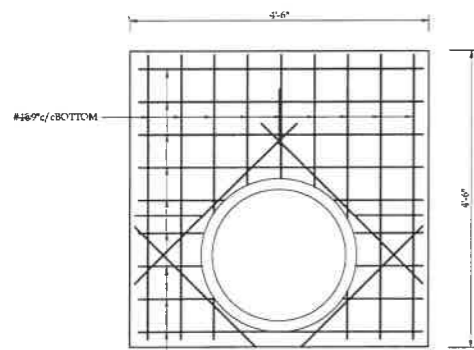


MANHOLE COVER  
(FOR MH TYPE B & SLUICE VALVE CHAMBER)  
SCALE:- 1" = 1'-0"

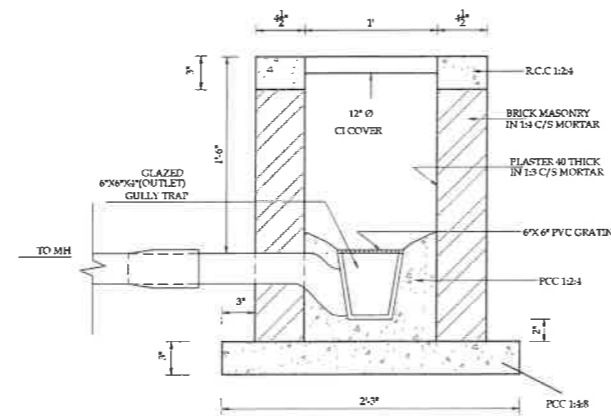


SECTION C-C  
SCALE:- 1" = 1'-0"

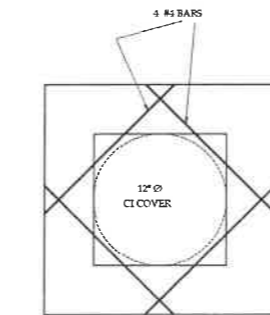
MANHOLE TYPE-B  
SCALE:- 3/4" = 1'-0"



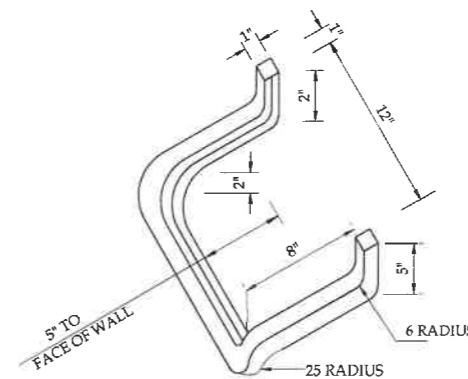
REINF. DETAIL FOR TOP SLAB MH TYPE-B & SLUICE VALVE CHAMBER  
SCALE:- 3/4" = 1'-0"



GULLY TRAP (CI-COVER)  
SCALE:- 1" = 8"



REINFORCEMENT DETAIL  
SCALE:- 1" = 8"



MALLEABLE IRON STEP  
SCALE:- 1" = 8"



SNGPL		TITLE		SNGPL BUILDING	
				MANHOLE TYPE-A,B SLUICE VALVE CHAMBER & GULLY TRAP	
ORIGINAL	DATE	SCALE			
A2	MAY, 2025				
NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
01	13-03-2023	DRAFT TENDER	DANIAL	ASAD	ENGR. USMAN
02	25-05-2025	TENDER DRAWING	DANIAL	ASAD	ENGR. USMAN
DRAWING NO:			SHEET		REV
SNGPL-MHM-P-04			00		00
PROJECT:					
DESIGN OF METERING HALL SNGPL MULTAN					
CLIENT:					
 Sui Northern Gas Pipelines Limited SNGPL					
CONSULTANT:					
 ASIAN CONSULTING ENGINEERS (PVT) LTD. C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN TELEPHONE: +92 42 35450914-5 FAX: +92 42 35450916 WEB: www.asiancon.com					

SNGPL-MHM-P-04