



Sui Northern Gas Pipelines Limited (SNGPL)

**“Design and Preparation of
Tender Document Including Site Investigations”**

TENDER DOCUMENTS

For

DMIS Multan

January - 2026



www.asiancon.com

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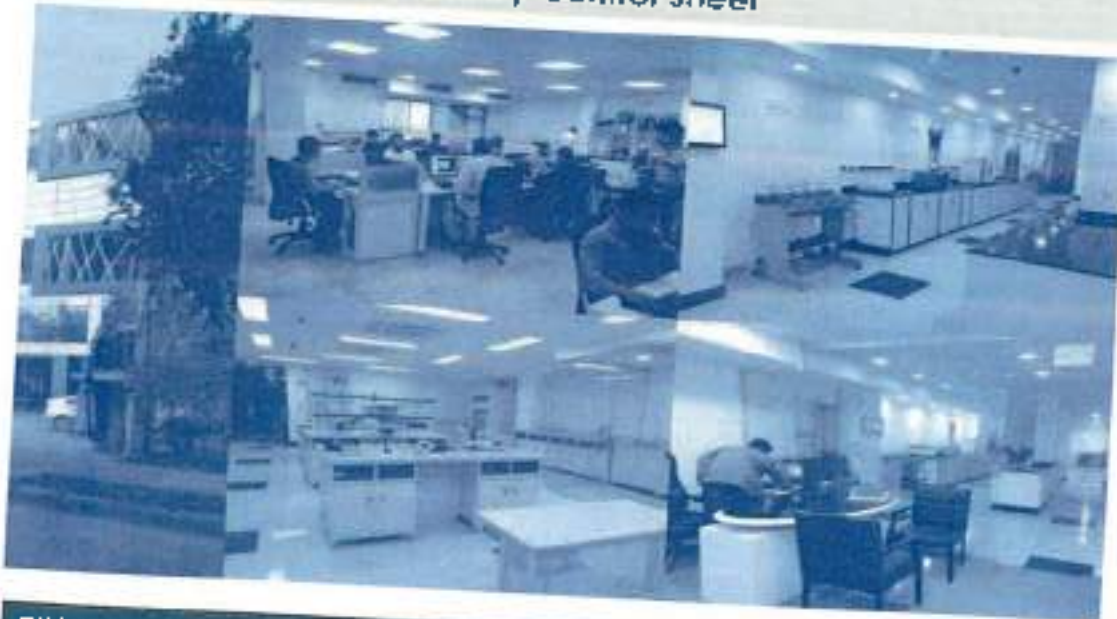
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Quality Control Sheet



QUALITY CONTROL SHEET	
DOCUMENT	Tender Documents for DM'S Multan 71 kV Extension
PROJECT	"Design and Preparation of Tender Document including Site Investigations"
CODE	9200138-SNGPL
AUTHOR	28.01.2026
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RECIPIENT	Sui Northern Gas Pipelines Limited (SNGPL)
NOTES	





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CONTRACTOR HSE STATEMENT





CONTRACTOR HSE STATEMENT



SUI NORTHERN GAS PIPELINES LIMITED

Doc. #SNGPL-GPR013-F001

Issue # 01

Issue Date

Contractor HSE Statement

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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/Eng/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





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Issue Date

Contractor HSE Statement

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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:	





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Contractor HSE Statement

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 and complete a separate HSE briefing package for the facility's review.





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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"> • Health of its employees is protected. • All activities carried out for the execution of the job are safe. • Compliance is met with all relevant laws and regulations. • All HSE (Health, Safety and environment) procedure of the Company are implemented. • Safe working environment is provided to its employees. 	
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 condition. 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 condition. Only licensed and designated qualified people shall operate contractor's equipment.	





Health, Safety and Environment Management Basics		Tick ()
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 "P".	
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.	





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Issue 4/11

Issue Date

Contractor HSE Statement

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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	





FORM OF TENDER





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-Kashmiri 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. 904,000 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



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

Date: _____ day of _____, 20__

Signature _____ in the capacity of _____

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

WITNESS:

Signature: _____

Name: _____

Permanent Address _____

Occupation: _____





FORM OF AGREEMENT





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 _____





APPENDIX – A



APPENDIX – A

1	Earnest Money/Bid Security	Rs. 904,000/- Rupees (Must be submitted at the office of incharge (Civil), Civil Construction Department, 2 nd Floor, Gas House 21 Kashmir Road Lahore in hard form along with Hard Copy of Tender Documents Signed & Stamped by the Contractor before Tender Submission Time otherwise the bid would be declared non-responsive). Earnest money must be submitted with technical bid.
2	Amount of Performance Bond or Guarantee	Ten Percent (10%) 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
3	Validity of Performance Bond or Guarantee	Till satisfactory completion of the contract ^{maintenance Period} contract
4	Validity Period of Bid	120 days from the date of opening of Tender.
5	Time for Completion	^{150 days} 120 ¹⁵ 12 Months for whole of the project including Mobilization Period of 15 days
6	Amount of Liquidated Damages	0.2% of the accepted amount/final cost of project per day for each day of delay
7	Limit of Liquidated Damages	10% of the total accepted amount or final cost of the project
8	Period of Maintenance	Twelve (12) Months after Issuance of completion certificate
9	Percentage of Retention Money	Ten percent (10%) of gross amount of each running bill.
10	Limit of Retention Money	Five percent (05%) of FPC Amount
11	Payment of Retention Money	After successful completion of maintenance period and/or satisfactory rectification of all defects/deteriorities pointed out during maintenance period
12	Time within which payment to be made after Certification	Sixty (60) working days of SNGPL Head Office.
13	Mode of Payment	The Partial payments (FPC's) shall be processed on submission of claims by the contractor on completion of any work order activity (s) as per contract



		Mode of Payment/ Payment Schedule
14	Tender Documents Fee	Rs. 2500/- against Pay order in the favor of M/s. Sui Northern Gas Pipelines Limited (Non-refundable) Must be submitted at the office of Incharge (Civil), Civil Construction Department, 2nd Floor, Gas House 21 Kashmir Road Lahore before tender submission date and time. Without Submission of Tender Fee, Bid would be declared non-responsive.



SPECIAL CONDITIONS



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.

DMIS 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 fulfil 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 remained 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 BSE 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 papers 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, of 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 Proposal' shall be evaluated after opening and the 'Financial Proposal' of bids found technically nonresponsive shall be returned unopened 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 which must be studied for live 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 HPE'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 1/3 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.





INTEGRITY PACT





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 voidable 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 or damage incurred by it on account of its corrupt business practices and further any compensation to GoP in an amount equivalent to ten times 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 Govt.

[Client]

[Consultant / Contractor]





GENERAL TERMS & CONDITIONS





GENERAL TERMS & CONDITIONS

1. SITE CONDITIONS, CLEARING AND GRUBBING

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.C.P.L. HEAD OFFICE,
21-KASHMIRI 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 (As per EPADS).

The tenderer shall study the drawings and specifications carefully. Any information, clarifications, interpretations sought by the intending tenderers must be referred in writing to company as per date mention on website. SNGPI 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.





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. 904,000/- amount of work in favour of Sui Northern Gas Pipelines Limited, Lahore shall be submitted before tender opening date as earnest money on the address 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 tenders 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 then 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 tenderer.

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 of 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

ONGPL 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 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/PPC 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 SNGPI 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 ~~Head of Department (HOD)~~ **Head of Department (HOD)**. 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 ~~Head of Department (HOD)~~ **HOD**.
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 ~~Head of Department (HOD)~~ **HOD**, 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. FPCs/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.





SPECIFICATION TO BE ADOPTED AND LIST OF APPROVED MANUFACTURERS/VENDORS



**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.	GFC Cement	DCE, Askani, Maple Leaf or any approved equivalent
3.	Reinforcement Steel (Diam. 8-20 & 4)	AFCO, Mughal, Faal or any approved equivalent
4.	Sand	<ul style="list-style-type: none"> Local Sand PCC 1:4:8 Brick Masonry, Sand Filling <i>Chenab</i> sand for plaster 100% Low alkali for all RCC works
5.	Construction Chemicals	<ul style="list-style-type: none"> S KA Radiant Construction Technologies Fox Chemicals Approved Equivalent
6.	C.I. Pipes/Sheet	IL (M)
7.	Hot Bitumen	PB3 or PB4
8.	Polythene Sheet	60 Sft = 1 kg
9.	Double Tee Planked R.C.C Roof Slab	Izhar Group of companies or approved equivalent

NOTE:

- All materials shall be as per brands/specifications given in above table or equivalent approved by incharge (Civ) and duly vetted by the Consultant.
- Samples of all construction material should be get approved from the Incharge (Civ) before installation at site.
- Original cash memo/certificate from authorized dealer will be provided by the Contractor to Incharge (Civ) before installation when required.
- 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. Adamijee 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.





APPROVED SAMPLE OF PERFORMANCE BOND/GUARANTEE





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 _____

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 "CONTRACTORS") 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 a/afersa a 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 in 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: _____





SPECIAL CLAUSES





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	ASIM C -39
2	Bricks	Compressive Strength 1800 ps	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	ASIM 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 material 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.





SCHEDULE OF PAYMENT





MODE OF PAYMENT/PAYMENT SCHEDULE

DMIS Multan ~~Extension~~

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.

3. Minimum Partial Payment amount is Rs. 10 Million
(Ten Million).





BILL OF QUANTITIES





DRAWINGS

Drawings for the Subject project attached as a Separate Binder.



DMIS (SNGPL) MULTAN
SEI NORTHERN GAS PIPELINES LIMITED (SNGPL)

Bill of Quantity

General Abstract of Cost

Sr.No	Description	Amount (Rs.)
A	Main Building	
1	Bill No.1: Civil Works	
2	Bill No.2: Plumbing Works	
3	Bill No.3: Electrical Works	
4	Bill No.4: HVAC	
5	Bill No.5: Fire Alarm System	
6	Bill No.6: Telephone & Data System	
7	Bill No.7: CCTV Surveillance System	
	Sub Total A	
B	External Development	
	Bill No.8: External Development	
	Bill No.9: External Electrification	
	Bill No.10: Water Supply Network	
	Bill No.11: OHR (10,000 Gallons)	
	Bill No.12: Tubewell Installation	
	Bill No.13: Tubewell Chamber	
	Bill No.14: Sewerage Network	
	Sub Total B	
C	Toilet Block	
	Bill No.15: Civil Works	
	Bill No.16: Plumbing Works	
	Bill No.17: Electrical Works	
	Sub Total C	



DMIS (SNGPL) MULTAN
SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

Bill of Quantity

General Abstract of Cost

Sr.No	Description	Amount (Rs.)
D	Compressor Room	
	Bill No 18: Civil Works	
	Bill No 19: Electrical Works	
	Sub Total D	
E	Meter Yard Shed	
	Bill No.20: Civil Works	
	Bill No.21: Electrical Works	
	Sub Total E	
	Total (A to E)	
	PST 16%	
	GRAND TOTAL AMOUNT	
	GRAND TOTAL AMOUNT IN MILLION	



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.1: Civil Works				
1.1	<p>Spraying/etching/grading by using liquid EMULSION/Bitumen/ Epoxy/MS Bitumen in equivalent or specified suspension concentration (SC), Mixing Albitone-HL(X) MS with Rakul(L250) + MS-50, or equivalent approved liquid applied with shower and contractors will be provided by the contractor for the rates complete in all respects as approved by the Engineer incharge</p>	Sq	7,143.00		
1.2	<p>Demolishing cement concrete in situ of separating retaining wall between pipe, draining and strengthening the same</p>	Cu	176.26		
	<p>Carriage of 1000 (1000) cum of all materials like stone aggregate, gravel, sand, lime, pozzolana, water, etc. or 1500 (1500) cum of rubble, or truck or by any other means opted by the contractor.</p>	Cft	176.26		
	(For Disposal of Demolishing material in approved area)				
1.3	<p>Cement concrete plain including placing, compacting, finishing and curing (except for including site work, etc. washing, or stone aggregate)</p>	Cu	2,827.36		
	(i) Ratio 1:2:4 (17 Km Lead on road)	Cu	142.27		
	(ii) Ratio 1:4:8 (107 Km Lead on road)				
1.4	<p>Paved brick work in ground for:-</p>				
	(i) Cement sand mortar				
	Ratio 1:5				
	circum Line	Cu	1,492.00		
	and Floor	Cu	476.20		
	Staircase	Cu	518.10		
	Cement Concrete				
1.5	<p>Providing and laying reinforced concrete work including precast and castment, using Ordinary Portland Cement / Impure pozzolanic content / Slag content as may be required, coarse sand and increased graded and washed aggregate in required shape and design including forming, mensuration, setting, filling, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, MS fabric work and placing in position, etc.)</p>				
	(a) (i) Reinforced cement concrete in road slabs, beams, columns, tanks, girders and other structural members cast in situ or precasted in position, or prestressed members cast in situ, concrete in all respects - (107 Km Lead on road)	Cu	111.01		
	(ii) Type I (normal concrete) - (1)				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	(1) Reinforcement concrete in retaining/ structure/ bed in minor portion and at position or prescribed members (see section) form work on both sides) complete in all respects				
	(117) Reinforcement				
	(2) Type 6 terminal pile (1.4/2.1) in Up (1.4/2.1) (4x2)	CU	196.4		
1.6	Providing and fabrication of mild steel reinforcement for concrete columns, including cutting, bending, laying in position, making parts and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (this includes removal of rust from bars) Deformed bars (concrete)	Kg	1,037.97		
1.7	Concrete plaster 1:1 up to 200 mm height, in 1/2 (10 mm) thick	Sq	12,227.45		
1.8	Concrete plaster 1:1 up to 225 mm height, in 1/2 (10 mm) thick	Sq	24,450.34		
1.9	Concrete plaster 1:1 (10 mm) thick under surface of R.C.C roof slabs only, up to 50 height in 1/2	Sq	10,854.90		
1.10	Providing and fixing 100 diameter wire mesh of 20 gauge in/under horizontal and vertical joints of concrete masonry work with nails, washers etc. the cost of all type labour and material, as shown on drawings, as per specifications, complete in all respects, as approved and directed by the Engineer in charge	Sq	2,217.250		
1.11	Preparing surface and painting in 2 coats, in paint - a) first coat b) 2nd and each subsequent coat	Sq	34,215.24		
1.12	Preparing and applying exterior shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respects: a) two coats i) 1st coat ii) 2nd coat	Sq	11,227.41		
1.13	Providing and fitting all types of glazed aluminium windows of				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPE LINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	as above to provide round party fixed and fully sliding lamp chime as per approved manufacturer having frame size of 100 x 30 mm 14" x 2 1/2" and led frame in frame of 60 x 21 mm. and 1 from thickness including 5 mm thick impervious hand glass with rubber gasket using approved standard Indian standards etc. as approved by the Engineer in charge.	Sq	1,628.75		
1.11	Providing and fixing Multan Flange comprising of 10mm Aluminum wire girth (Material of 10 diameter frame of approved manufacturer) powder coated of 50 x 40 mm and 1 from thick with rubber gasket of cost of 10mm as approved and directed by the engineer in charge complete in all respect.	Sq	815.26		
1.15	Providing and fixing 10" dia 5" x 10" (10mm x 5mm) galv including 10" x 10" (20 mm x 20 mm) 10" dia frame in which size of approved design including painting three coats complete in all respects.	Sq	1,621.25		
1.16	P/F. 10' x 10' x 10' Jack span solid partition or partitioned and gazed doors comprising of solid wood body and about 10mm thick and painted 2 times thick veneer pl. finishing, with steel used with pioneer panel on both sides of 10" thick solid wood panel with tapered edges 1/2" the cost of frame body handles complete in all respects including the cost of black wood frame, sliding internal lock as approved and directed by Engineer in charge.	Sq	736.00		
1.17	Providing and fixing 2" x 10" MS GI Channel Ring: dual inside made of 10 50 G MS then painted (welded) supported with MS 10 x 10 x 10 1/2" or 10 50 MS Flat top of head 10mm 5mm welded/ spaced painting. Flange hole covered with 5% Box covering with anti rust paint including filling with concrete sand mortar (1:8) and masonry and 10mm concrete cover the flat concrete in all respect as approved and directed by Engineer in charge.	Sq Sq	181.00 10.00		
1.18	P/F. Iron door comprising of specified size made of 10" x 10" x 10" x 10" MS single iron for 10mm. Marginal and horizontal brass plate coated with MS steel 10 50 G. the cost of sliding bolt, tower bolt and painting as per specification including the cost of				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Check complete in all respects approved and directed by the Engineer in Charge				
	(i) Single test	Sq	15.00		
110	Finishing and fitting mild steel structural joints, windows, Casings etc. including labour, making good, painting, labor for hinges etc. complete - a) MS angle 60x61/2x 1/2x 1/2 (Black anneal) welded with VLS Bar 2x 1/2x 150 mm x 6 mm	Sq	49.00		
121	Providing and fixing all types of party wall and party openings glazed window/ partition and aluminum doors using duty section 60 V/S Al-Lap or Pakalib Co. 1/2" heavy structural frame of size 40x 100 mm (1 1/2" x 4") and frame of aluminum (2 1/2" x 1 1/2") window sash including three or six 6" diameter black glass with aluminum triangular girds and rubber gaskets to support the glass and finishing using approved standard size lock of 75 mm window handle etc. and hardware as required as approved by the Engineer in Charge (Window aluminum frame)	Sq	128.00		
121	Providing and fixing 1200x700 panel Glass Door frames comprising of annealed Hot Rolled (HR) mild steel of type S 5 handles on both side (approved), top and bottom, bottom concealed door machine hinges S 5 and fitting of glass door lock (approved) and all the cost of using approved standard fittings, accessories etc. and hardware as required as shown in drawing, complete in all respects as approved and directed by the Engineer	Sq	128.00		
122	Providing and fixing 1" thick terrazo tile set spalled etc. in 3" concrete full body best quality with minimum 10% in approved design with aluminum hand over 3/4" thick 1/2" x 1/2" to prevent the flow of water for finishing the joints, cutting, grinding, rubbing, filling Complete in all respects as approved and directed by the Engineer (Without Painting)				
	a) Size 12x12 sq"				
	b) Cost	Sq	6,286.50		
123	Providing & fixing 3" thick Concrete slabs to separate the adjacent road bed quarter in approved design with concrete beam and use a bed of 1/2" thick 1/2" concrete sand concrete the cost of matching water for finishing the joints, cutting, grinding, rubbing, filling complete				



QMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	as all respects as approved and directed by the Engineer in charge				
	without Polishing:				
	a) Size 2" x 1/2"				
	i) Cover	Sft	353.99		
1.24	Knitting and polishing gun lines including repairing welds, surface rollers, complete in all respects	Sq	6,662.14		
1.25	Processing and laying drawing work from Vienna Marble having uniform texture (Specimen of required size and location) finished with adhesive bond over 3/4" thick bedding of (1) 20 cement sand mortar to the level of matching water, cutting, grinding and finishing polishing complete in all respects as approved and directed by the Engineer in charge	Sq	1,649.85		
	11.12" dia. 1012" x 12" x 24"				
1.26	Processing and laying 3/4" thick finished Marble slabs over slitting channels having top finish of size 21" x 6" of approved quality and shade with adhesive bond over 3/4" thick (1) 20 cement sand mortar to the level of top of the cast of matching water to finish	Sq	115.98		
	as joints as approved and directed by the Engineer in charge				
	i) From Vienna				
1.27	Processing and laying super quality Ceramic tile floors of Marry/ Sub-Tile or approved equivalent in size, color or specified size, color, finish, texture of approved Color and Shade as per approved design with adhesive bond over 1/4" thick (1) 20 cement sand plaster to the level of water in matching the joints / or cutting grinding complete in all respects and as approved and directed by the Engineer in charge	Sq	100.89		
	12" x 12" / 12" x 24" / 10" x 21" / 6" x 24" / 12" x 36"				
1.28	Processing and laying super quality Ceramic tile floors of Marry/ Sub-Tile or approved equivalent in size, color or specified size, color, finish, texture slitting slabs of approved Color and Shade with adhesive bond over 1/4" thick (1) 20 cement plaster to the level of water in matching the joints / or cutting grinding complete in all respects as approved and directed by the Engineer in charge	Sq	411.62		
	12" x 12" / 12" x 24" / 10" x 21" / 6" x 24" / 12" x 36"				
1.29	Processing and laying 3/4" thick finished Prepolished Marble slab or Veneer Slabs/ Tiles/ Windows Sills having Uniform texture				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Spigot end with adhesive joint over 1/4" thick (2nd) second hand work, the use of matching steel complete in all respects as approved and directed by the Engineer in charge.				
	1/4" Class Benna (1/4" thick 50)	sq	108.50		
130	Providing and laying precast concrete slabs for the floor of approved quality 1/4" thick slabs on form and D and being laid including 1.5 base course and finishing etc. concrete slabs to be done as required for facing & grouting. This work includes anti-silt grooves not more than 20mm deep at edges and all respects as per drawings, specifications and as directed by the Engineer in charge.	sq	401.40		
131	Providing and fixing of the ceiling comprising of 20 gauge 1022 lacinated sheet of size 7'x7' 2'x2' 1/2" of specified design and thickness of 1022 lacinated galvanized angle 1" x 1" at wall ends galvanized 1/4" x 1/4" and 1/4" x 1/4" both at 1" x 1" made of 1022 C&M as required being set with G 1/2" copper wire 105% (11 work, B&W) being complete in all respects as approved and directed by the Engineer in charge.	sq	12,354.90		
132	Providing and laying built up iron having 7500 PSI, crushing strength of approved manufacture over 7" to 11" and surface is grouting with sand in joints by providing an require slope, complete in all respects (SIS) Class 2 5% (1022)	sq	4,025.16		
133	Providing and laying of 1022 insulation comprising of single layer of lure 3" (1/4" 1/2" (2252) 1022 and galvanized with cement sand mortar 1:1:3 (1022) 1022 thick with including sand plaster over the mortar slabs, over partitions steel 20 gauge over a layer of 1022, complete in all respects.	sq	3,785.25		
134	Providing and fixing 2" x 2" high steel tubing comprising of 600 weight, 1022 1022 steel 2" dia pipe having of 1022 welded with vertical joints of 2" dia stainless steel (solid) 2" dia pipe being (600) & 2" dia used as alternate steps with 3" long steel scales and brass level pipe 2" dia galvanized steel pipe of 1/2" 2" dia used through gate fixed over vertical post of 2" dia steel working, fixing & painting complete in all respects as approved and directed by the Engineer in charge.	sq	84.00		



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
135	Providing and fixing 2" dia. 16 SFG non-conductive (silence) wool pipe lagging with mineral wool insulation fixed with 2" long steel brackets with wire mesh the cost of hardware etc. & stainless steel working & packing complete in all respects as approved and directed by the Engineer in charge.	Rt	16.00		
136	Providing and fixing 1.4" (width) 2x2 1/2" (S mm) wide aluminum strip on horizontal and vertical expansion joints in walls, columns, ceiling and floor etc., including material, labor & tools etc., complete with inspection. Rt/linear surface (with 10% wastage)	Rt	198.00		
137	Providing and fixing Baklar Pad - Coated "Acr Seal" in maximum the top and depth of area the joint edges with "Coatex Primer" and tracer in dry for 30 minutes. Fill the remaining cavity with Polyurethane foam (70 mm x 15") and allow to cure, complete in all respects as per drawings and specifications of the Engineer.	Rt	194.00		
138	Providing and fixing insulated PVC (water) pipe, 104mm dia with matching flange (for 100mm dia. Round duct. Water Duct. Pipe) complete in all respects including labor & wastage as per drawings and specifications of the Engineer in charge.	Rt	44.60		
139	Providing, fabricating and fixing fire proof metal door consisting of 347mm x 2070mm (Usm) door with MS door plate fabricated with steel with 8 Nos. each M16x150 wedge type Hilti, 11 welded with L-anchors and 4 nos. fire proof thick MS plates, 1025 (anchorage bolts) embedded in concrete, 257mm x 276mm MS Channels, 14-25 40 Lx67 Rt (1st) Jamak. (Kolar or approved equivalent) Lx 50mm x 90mm running on each floor including for connecting frame to each floor slab. 450mm x 50mm MS frame for Landing welded with MS Channels, MS Steel Grating, MS Grids for 2 nos. (4) (350mm x 50mm, 25 40 Lx70 Rt) along side of stair steps and landings, 300mm x 700mm x 10mm MS L-iron for steps, 2mm thick MS chequer-plate for steps welded with MS L-iron, 2mm thick 8 nos. each, M16x150 wedge type Hilti, MS Staircases, 405 stairs, 2 nos. including MS railing Pipe, 50mm dia. In gauge as per drawing and all type of necessary joints, details and applying red oxide and approved paint, complete in all respects as per drawings, specifications and as directed by the Consultant/ Engineer. (From Ground floor to 1st & 2nd) All items to be done with material request for steel structure to be charge with routing.				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.2: Plumbing Works				
2.1	Providing and fixing chromom plated soap dish	Each	300		
2.2	Providing and fixing chromom plated toilet paper holder	Each	500		
2.2	Providing and fixing chromom plated mirror rail in 60,00(24") long, and 2 (m/57") dia	Each	500		
2.3	Providing and fixing looking glass 57x40 cm (22"x16") size, and 5 mm cork back panel	Each	400		
2.4	Providing and fixing one piece complete coupled set of Water Closet (WC) and flushing Cistern of PORTA brand full size or approved equivalent manufacture for 40, 45 or 47" inches connection. Handle immediate cover and good looks, complete in all respects as approved and directed by the Engineer in charge.	Each	100		
2.5	Providing and fixing glazed earthen ware wash hand basin Wash in (22"x16") including back seat, waste pipe and waste coupling etc. Under Copper Vanity Basin	Each	400		
2.6	Providing and fixing chromom plated mixing valve for wash hand basin, sink or shower.	Each	100		
2.7	Providing and fixing CP (cast iron) or made of Sinter Metal / Lead or approved equivalent manometer comprising of 4.5kg Tee cap couple, floor type Basin mixer, double filter cock, open seal gasket, Mixer chamber, waste coupling and hole trap etc. complete in all respect as approved and directed by the Engineer in charge				
	(i) Tee Cap & nut set	Each	1000		
	(ii) Double Filter Cock	Each	100		
	(iii) Mixer Mixer	Each	200		
	(iv) Hole Trap	Each	200		
2.8	Providing, fixing, testing and maintaining etc. PVC (flexible) cast polymer (Mushel Nikou) waste pipe fittings made of Duroc / Populite, Res or approved equivalent, conforming to BS 5514 / BS 5295 including the cost of Solvent complete in all respect as approved and directed by the Engineer in charge				
	a) Vent Cover				
	i) 15 dia	Each	100		
	b) Clean Out				
	i) 15 dia	Each	500		
	ii) 20 dia	Each	500		



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	PIPING & VALVES				
20	Providing, laying, testing and commissioning of DUCTILE IRON CAST-IRON (Ductile) water supply pipe (Water / Potable) line as approved by the manufacturer, with specified pressure rating (psi) (kg/cm ²) (MPa), standard and conforming to ISPI 8077:2008 code of conduct and standard, special working pressure complete in all respects as approved and directed by the engineering office. External diameter mentioned.				
	DN-25 Cold Pipe				
	Cold 15mm dia	EO	125.00		
	Cold 25mm dia/d	EO	25.00		
	DN-25 Hot Pipe				
	Hot 25 mm dia/d	EO	25.00		
211	Providing, laying, testing, joining, sealing and dismantling Hot/ Cold/ Ductile Cast-Iron Pipe (Ductile) with working pressure rating, ISPI 8077:2008 (MPa) (kg/cm ²) (psi)				
	50mm	Per EO	175.00		
211	Providing, laying & testing of PPRC pipe of specified diameter and material for pressure rating in the range of Ductile / Journal (Ductile) / Flat (a) PPRC Gate Valves				
	EO 1-1/2" dia/d	Each	10.00		
	EO 1-1/4" dia/d	Each	1.00		
	EO 1-1/2" Dia/d	Each	1.00		
212	Supply, installation of 10" PVC, PPRC (a) valves as per IS 5548 & IS 5550 of specified sizes provided at the highest count (Pressure) in steel air as per IS 5548 (a)				
	Unit	EO	1.00		
213	Providing, laying, testing, joining, testing and dismantling pipe line in diameter with PVC / PPRC pipes as IS 5548 & IS 5550, with 'D' class working pressure complete in all respects -				
	1" dia/d (25 mm)	EO	15.00		
	1 1/2" dia/d (38 mm)	EO	15.00		
	2" dia/d (50 mm)	EO	245.00		
	2 1/2" dia/d (63 mm)	EO	175.00		
214	Providing and laying, item reports as per, including concrete chamber of 1000mm dia and C.I. grating -				
	(a) 1000 x 500 (1" dia)	EO	1.00		
	Replacement Items				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount	Rx.
1	2	3	4	5	6=4x5	
	Bill No.3: Electrical Works					
10	Supply and erection of PVC pipe for wiring two-wire in walls, including supports, boxes, pull boxes, hanks, ceiling plates, and repairing surface, etc. complete with all specials.					
	25 mm (1) for Power Wiring	ft	100			
	25 mm (1) for Signal Wiring	Rt	50			
	25 mm (1) for Power Wiring	Rt	100			
	25 mm (1) for AC Wiring	Rt	50			
11	Supply and erection of PVC pipe for covered wiring (not used with-wire) purpose including benches, specials, etc. in floor, wall or trunks etc.					
	25 mm (1) for DBs, ABBs	Rt				
	25 mm (1) for ABB DB	Rt				
	100 mm (1) for LAMPs	Rt	50			
	100 mm (1) for LAMPs	Rt				
12	Supply and erection of single core PVC insulated PVC insulated copper conductors, 250/300 volts grade with IPB-2000, as per laid PVC pipes/M.S. conduit/G.I. pipe/under wire/buried or other suitable ground capping/brackets, etc.					
	15 mm (1) (10/12) for Power Wiring (P-N-E)	ft	500			
	25 mm (1) (10/12) for Power Wiring (P-N-E)	Rt	100			
	1 mm (1) (10/12) for Power Wiring (P-N-E)	ft	100			
	6 mm (1) (10/12) for AC Wiring (P-N-E)	Rt	100			
13	Supply and erection of copper conductive cables for service conductors, as per laid pipe/G.I. wire/tranches, etc. (rate for cable only) -					
	PVC insulated, PVC sheathed, size 100/1000 volt AC (unarmored) cable.					
	6 mm sq (17/0.02) for Power, Signal, Meters	Rt				
	16 mm (17/0.02) (Main Power Cable for DBs)	Rt	100			
	25 mm (17/0.02) (Main Power Cable for DBs)	Rt	40			
	6 mm sq (17/0.02) (Main Power Cable for ABB, DB)	Rt	100			
14	Supply and erection of single core PVC insulated copper conductive cables, as per laid PVC pipe/M.S. conduit/G.I. pipe/tranche support or other casing, as per laying (1) (rate for cables only)					
	10/250 volts, PVC insulated, earth Copper Conductor (ECC)					



DMIS (SNOPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	6mm sq (7/0.044")	Rft			
	18mm sq (7/2.064")	Rft	160		
	50mm sq (19/1.975")	Rft	185		
7.6	Providing and fixing Copper 7mm dia Tubing Fm with cover and cutter made of Pol/Thermosetting in NPECA approved equipment for the installation of the meter assembly, valves and fittings for the same, including test complete as approved and directed by Engineer Incharge.				
	Black 50h				
	8, 10, 12 dia	Each	2		
17	Providing and fixing Fekhran Energy Label NPECA approved Copper wire for wiring for the use of meters, cable and hardware for connection as approved and directed by Engineer Incharge.				
	36" dia	Each	6		
	48" dia	Each	9		
	50" dia	Each	28		
18	Providing and fixing 7.5mm Energy Label NPECA approved Copper wire for wiring for the use of meters, cable and hardware for connection as approved and directed by Engineer Incharge.				
	14" Sq. dia	Each			
19	Providing and fixing of 12.5mm dia (1/2") O.D. Type, in polyethylene (PE) pipe (legends) (SRP) schedule approved explosion proof with flame, neutral and earth terminal slots (with glands) type, including all necessary accessories as per specification, complete in all respect.				
	1.5 H.B. Isolator (Indoor) 3 wire type	Each			
	2205, 11.5" Isolator (Indoor) 3 wire type	Each			
3.10	PVC PVC double level Switch (4) for gas use with special switch holes for the use of switches / sockets (aluminum) made of H-Life / Bush / Schedule approved equipment manufacturer, works complete as approved and directed by the engineer Incharge.				
	One way Gauge Switch (SOS)				
	14" Gang	Each	6		
	02" Gang	Each	9		



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	01 Gung	Each	8		
	76.25 pipe Industrial Plug 10/12.5 Amp	Each	43		
	1.25 Connector	Each			
	Three Pin Power Plug 10/12.5 Amp	Each			
	One way Change Switch (Large)				
	06 Gung	Each	9		
	07 Gung	Each	5		
	08 Gung	Each	6		
	Industrial Socket IP42 with mounting plug				
	16.5. 5 pin Three Phase Industrial Socket	Each			
	16.5. 5 pin Three Phase Industrial Plug	Each			
A.11	Supply, installation, testing & commissioning of 16 SWG Sheet Steel powder coated back Doors with earth terminal, mounted on wall, including accessories, complete in all respect as per specifications and as approved by Engineer				
	(i) Small 450"	Each	25		
	(ii) Large 570"	Each	20		
	1.1 Switch Gear:				
	Estimation, supply of site, installation and commissioning of low Voltage Main Panel fixed (11KV) by indoor type, three armoured mode of sheet steel 16 SWG, with flexible routing straps, degreased and de-oiled, zinc phosphated, brushed with electro zinc powder coating of 100 micron thickness as approved under IEC 60529 panel housing to comply with protection class IP-44/54, with finger proof handle, all auxiliaries, terminal wiring, disconnection cable with 2x6.35/20.0, earthing bar, numbering block on the control wires. KPII suitable for system Voltage 0.7 kV, 10/12.5 Phase & neutral, bus bars of 25x25 pure de oxide copper, including cost of cable termination fittings, brass cable glands for incoming & outgoing cables, wiring conduits, indicator lamps, instruments and control accessories, complete in all respect.				
	All incoming and outgoing breakers shall be accessible by opening the main door having additional 200 S sheet cover. Gaskets shall also be provided where necessary. LPT's shall have inter-communicably controlled exhaust fan and tube light with door switch on each cubicle.				
A.12	Low Voltage Main Panel Room & Ground Floor (LTMP3-GF)				
	Electricity from existing Source				
	III No. 200 A 4P VV CB (L) 20.0 kVA 100% IIS				
	01 No Surge protective device 100KA 4P				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	01 Nos. Digital VIO Meter 1000V ac.				
	01 Nos. Digital Ampere Meter 0-100A				
	01 Nos. Under/Over Voltage, Phase failure, Phase loss protection rlar				
	01 Nos. Induction Lamp (B+R) 230V AC/60Hz				
	02 Nos. 0.750 High 2mm				
	03 Nos. Control Transformers 150/50				
	05 Nos. Central Fuse for protection				
	01 Job. Brass Cable Clamp for 1/2" I.C.Cables as per site size				
	Outgoing				
	01 Nos. 100A 1P+N+G MCCB 25kA 100% Icu				
	01 Nos. 50A 1P+N+G MCCB 25kA 100% Icu				
	04 Nos. 40A 1P+N+G MCCB 25kA 100% Icu				
	01 Nos. 40A 1P+N+G MCCB 25kA 100% Icu				
	01 Nos. 40A 1P+N+G MCCB 25kA 100% Icu (Spare)				
	01 Nos. 40A 1P+N+G MCCB 25kA 100% Icu (Spare)				
	01 Nos. 40A 1P+N+G MCCB 25kA 100% Icu (Spare)				
	Complete in all respects as per single line diagram	Each	1		
	Distribution Board				
	Complete supply cable installation and interconnecting of 11kV/230V				
	with 11kV/230V terminal distribution board, low arcing wall				
	mounting, unskid type, metal cover, maximum clear 6.00 Mts.				
	incoming and outgoing connections from top or bottom as per site				
	equipment, clean to body with both the copper cable suitable				
	for 4.5MVA 11kV/230V, 90% Icu MCCB, 1P+N+G system rating				
	table as per site detail breaking capacity as mentioned in				
	the details. Complete in all respects as per the construction of the				
	engineer and single line diagram.				
	Detail of 11kV/230V DB:				
	Incoming				
	01 Nos. 50A 1P+N+G MCCB 25kA				
	01 Nos. Digital Ampere Meter 0-100A With Switch for Switch				
	01 Nos. Digital Volt Meter 0-250V AC With lockover Switch				
	05 Nos. Central Fuse for protection				
	02 Nos. Induction Lamp (B+R)				
	01 Job. Brass Cable Clamp for Incoming and Outgoing Cable				
	Outgoing				
	01 Nos. 10A SP MCB 25kA for Light Circuits				
	01 Nos. 20A SP MCB 25kA for Power Circuits				
	01 Nos. 10/20A SP MCCB 25kA (Spare)				
	Complete in all respects as per single line diagram	Each			



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SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Detail of DBLP-02F:				
	Incoming				
	01 Nos. 40 A IP MCB 100 kVA				
	01 No. Digital Ammeter Meter 0-100A With Selector Switch				
	01 No. Digital Volt Meter 0-250V AC With Selector Switch				
	01 Nos. Control Fuse for protection				
	01 Nos. Indicative Lamp 24V 10W				
	01 Nos. Brass Cable Clamp for Incoming and Outgoing Cable				
	Outgoing				
	02 Nos. 10 A SP MCB 100 kVA for Light Circuits				
	20 Nos. 20 A SP MCB 100 kVA for Power Circuits				
	01 Nos. 10/20 A SP MCB 100 kVA Spare				
	Complete to all respects as per single line diagram	Each			
	Detail of DBLP-03F:				
	Incoming				
	01 No. 40 A IP MCB 100 kVA				
	01 No. Digital Ammeter Meter 0-100A With Selector Switch				
	01 No. Digital Volt Meter 0-250V AC With Selector Switch				
	01 Nos. Control Fuse for protection				
	01 Nos. Indicative Lamp 24V 10W				
	01 Nos. Brass Cable Clamp for Incoming and Outgoing Cable				
	Outgoing				
	02 Nos. 10 A SP MCB 100 kVA for Light Circuits				
	18 Nos. 20 A SP MCB 100 kVA for Power Circuits				
	01 Nos. 10/20 A SP MCB 100 kVA Spare				
	Complete to all respects as per single line diagram	Each			
3.12	Supply, installation and commissioning of 1 x 2' light fixture with 2 Nos. 15A power sockets and 1 No. RJ-45 data point and 1 No. 19" x 1" telephone point. Complete in all respects.	Each			
3.14	Power Sockets:				
	Supply and installation of various types of power sockets. Complete in all respects.				
	1 Pcs 20 Amp Power Socket	Each	24		
	1 Pcs 20 Amp Power Socket for A/C	Each	9		
	11 Amps Power Socket Universal Type	Each	66		
3.15	Supply of PVC & installation of PVC back boxes compatible with switch & socket plates to be provided.				



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BILL OF QUANTITY

Sr.Nr.	Description	Qty	Unit	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No. 3: MECHANICAL WORKS				
	Drain Piping				
4.1	Supply & installation of 1/2" dia. 3-pole (60-60-111) insulation for condensate drain pipes of required size for AHS and S2 pipes covered with PVC tape as per specification / drawings with all accessories in fittings as approved and directed by Engineer in charge.				
	1/2" diameter pipe	100	100	150.00	
	1" diameter pipe	100	100	150.00	
	Refrigerant Copper Piping				
4.2	Supply and installation of gas & liquid Copper Piping of specified size and thickness including the cost of fittings, welding, complete clamp, hangers, supports, testing charges and all other class material for every below process complete in all respect as approved and directed by the Engineer in charge.				
	1/4"	200	200	90.00	
	3/8"	300	300	90.00	
	1/2"	300	300	90.00	
	5/8"	300	300	90.00	
4.3	Supply & installation of 1/2" type A minimum wall thickness of 2.0 mm (Cross linked polyethylene polyethylene pipe insulation) of density 25 kg/m ³ of specified thickness & the insulation in 100% w/w % and fire retardant of class '0' rating as specified for refrigerant copper piping as approved by the Engineer in charge.				
	1/2" dia	300	300	90.00	
	3/8" dia	300	300	90.00	
	1/2"	300	300	90.00	
	5/8"	300	300	90.00	
4.4	Providing and fixing Exhaust Energy Label (NECA) approved Copper welded seal bracket for 1/2" dia. over all pressure valves and handwires for condensators as approved and directed by Engineer in charge.				
	1/2" Seal pipe	500	500	7.00	
	Fire Extinguishers				
4.5	Providing and fixing of fire extinguishers one for Banks at following type and capacities complete in all respect as approved and directed by the Engineer in charge.				
	(i) Dry Chemical Powder capacity 8 kg.	Each	Each	4.00	
	(ii) CO ₂ Capacity 5 kg.	Each	Each	4.00	



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BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount (Rs.
1	2	3	4	5	6=4x5
	Bill No:5: Fire Alarm System				
51	Supply and services of PVC pipe for wiring concealed in walls, including inspection boxes, pull boxes, bushes, cutting frames and repairing etc. etc. conform with all specs. 25mm i/d	Mtr	760		
52	Supply, installation and commissioning of wiring with specified Fire Resistant Shielded Cable (Cable Rating for 2 hours of unpenetrated fire) in respect of DM control Alarm FA/CP (Fire Alarm Control Panel) in control room/duct, Motor Room, Bellman, Gas control etc. as specified as approved and directed by the Engineer in charge. 20x15 mm sq	Mtr	798		
53	Supply, installation and commissioning with Addressable heat detector unit (Manual Call Point) with key type EN 54 having a built in short circuit failure and an output cover to provide a response time of max. 1 second, having an integrated LED indicator, pressing the button on the outside of the alarm and a key operation facility for testing purposes made of Thermally Stable Plastic) as approved and directed by the Engineer in charge	Each	2		
54	Supply, installation and commissioning of Addressable type Incon Loop Pressure/Static level, Sounder/Bell/Alert EN-54 with 100V AC sound output 100dB @ 1 meter with impedance of 50ohm or stands as required and shall be loop wired and loop signal, loop current, etc. as per drawings, via software, push or Honeywell/Bech/Alarm (PK) as approved and directed by the Engineer in charge With buzzer	Each	2		
55	Supply, installation and commissioning of Addressable Opt. of Smoke Detector EN-54 incorporating an LED indicator located 0.5m vertically with in the housing of the detector. Sensing unit, adjustable via potentiometer 0.5 to 5 seconds having built in steel canister isolates on both inputs, make Honeywell/Bech/ Eaton (UK), including the cost of all other accessories as required, used and directed by the Engineer in charge Dual Detection	Each	36		
56	Supply, installation and commissioning of Addressable Heat Detector incorporating an LED indicator located in the middle of the housing of the detector, adjustable Sensing unit via software between				



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BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	0.50 sq inch The diameter shall also include in this circuit isolators on both & ports made of Admose/ Hamepwo/ Bostly/ Lator (UK) or equivalent as approved and directed by the Engineer in charge.				
	Rate of Rise (RIR) Heat Detector 250. mm and 200 mm size in length.	Each	1		
1.2	Alarm Control Panel (ACP) capable of PC interface with windows operating in IN 54, consisting of two feed loop circuits having 200 devices per loop including circuits for in power supply with backup battery, alarm and trouble indication, alarm circuit and reset system, ground alarm and reset system, general alarm trouble. Rate of Estimate is Five (5) Nos. @ Rs. 10000/- each. Complete material as per above not directed by Engineer in charge till F.C.P 2 Loop.	Each	1		
Total for Bill No.5					
(Carried over to Summary of Price)					



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.6: Telephone & Data System				
01	Supply and erection of PVC pipe size wiring covered by walls, including inspection boxes, pull boxes, bends, cutting, pulling, and repairing surface, etc. as per specification, all specials				
	at 25 mm (1/2") for Telephone and Data points	Rs.	64		
01	Supply, installation and commissioning of wiring with 4 pair data COB 21 AWG UL/PLT Braided Cable. Conforming to the following standards: TIA/EIA 568/ISO/IEC11801, approved country / labeling from including all accessories, Manufacturer/ OEM Anywhere per Manufacturer / 1000000 UK/ 4K Telecom USA/ 1000000 Australia or equivalent complete in all aspects approved and directed by Engineer Incharge				
	100 (Shielded Twisted Pair)				
	at 4-5 (Max) 2000 Hz or higher for Telephone and Data	Rs.	396.10		
02	Supply, installation and commissioning of CAT-6E 100 Base-T4 Ethernet Patch cord of specified length factory terminated and UL Listed with anti snag stress limit over shield plated metal shielded, 100% Australia or equivalent approved manufacturer and directed by Engineer Incharge				
	3 Meter Patch Cord	No.	15		
03	Supply, installation and Commissioning of specified Bare Layered PoE (Power over Ethernet) data Network Switch specified ports of 20 Mbps PoE Max 700, Mbps DUPLEX ports, made of Copper USA/ KVM/AS Europe/Jumper USA / Huawei / H3C, 100% Australia or equivalent approved manufacturer and directed by the Engineer Incharge				
	10 port Mini 200 Watts PoE ports	No.	1		
04	Supply, Installation and commissioning of single mode fiber optic cable with Multimode, Tight-Bendable Cable, Single Mode, OM3, of specified class, 9mm in per. all product of cable may etc. from fiber switch to fiber switch in ODF Panel, including all accessories, made of Subscriber / Corning USA/ Pandion USA, 100% Australia or equivalent as approved and directed by the Engineer Incharge				
	17 Km from nearest internet access point to ODF	Rs.	170.00		
05	Supply, Installation and commissioning of Single Type 2000 Standard Core Patch having fully populated I/O. Cat6a 1000 Hz with RJ45				



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SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)
BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	018K' 1/2" Supplying section of cast iron pipes as required for project item 2: Two 0145' x 087 1/2" supporting section of cast iron pipes as required by project Details: 1/4"	Each	3200		
6A	01 P.V.C. double layer trench for two pipes with capped and smooth ends to the cost of supplies / sockets / joints or made of 20' life / block / 4" diameter, 8 feet complete as approved and directed by the Engineer in charge	Each	3200		
67	Supply, installation of salt resistant, 2 1/2" outlet comprising of Pressure Capped M.S. frame, 6" length & 16" outside of rings, 02 way function, 8" p & 8" on top water, handle lock with 6 way P.O. of water Distribution Unit with all necessary accessories / materials, complete in all aspects. Made of Black T.P. / D.P.L. Fully Approved on requirement as approved and directed by Engineer in charge 0121' etc for 500000000	No	1		
	04. TA SYSTEM				
68	Supply, installation, testing and commissioning of Optical Network Terminal (ONTs) - Installed where necessary. Including cost of all necessary materials. Complete in all respects.	No	2		
	TELEPHONE SYSTEM				
69	Supply and installation of Telephone Cable with 4 TRUNK Line and 12 Exchanges. Complete in all respect	No	1		
Total for Bill No. 6 (Carried over in Summary of Price)					



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BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No. 7. CCTV Surveillance System				
7.1	Supply and installation of 150 pages for writing and electrical works including inspection boxes, pull boxes, boxes, cutting corners, and repairing similar work complete with all specials (75 units to be supplied)	No	90		
7.2	Supply, installation and commissioning of cabling with 4 pair data cable, 23 AWG/PL/FB twisted cable conforming to the following standards: IEC/ISA 588/19/2/IEC 11801, including standards / cables to be used including all accessories (connectors, RJ45, patch cords, etc.) (Schneider / equivalent IEC RJ45 Cat 5E/6 / RJ45 Cat 6/ equivalent or equivalent) complete to all responses approved and selected by the undersigned Engineer in Charge (100 units to be supplied)	No	10000		
7.3	Supply, installation & commissioning of 10" base 1/2" camera (specified number) 1/4" Prog sensor with fixed lens 2.8 mm AE, black resolution 2702 x 1500 min. Color, H-265, Camera with 25 fps, day night (DNR), ONVIF IP-66, Max IR distance 200m, 1/2" NCS Mount, Audio In, the cost of mounting bracket, mounting accessories / brackets, Make as per the / Brand / Model / Specification of equipment as approved as directed by the Engineer in Charge 4 Megapixel Night Vision Type Fixed Lens Type	No No	10 5		
7.4	Supply & installation of NVR, Network Video Recorder for Real Time View of specified channels, video and audio channels, supported protocols (ONVIF, RTSP etc.) format, H.265, max 4 supported 24, 60, higher resolution requirement, Monitor outputs, HDX/4K Ultra HD, VGA, Video Composite output, Support RAID 5/6, Embedded OS, Data backup, max 1 x RJ 45 100Mbps ports, with PC Video Monitoring Software, Web Server, Embedded Server complete in all respects under all conditions / Brand / Model / Specification of equipment as approved and directed by the Engineer in Charge. 16 Channel	No	1		
7.5	Supply, installation and Commissioning of Surveillance Grade Hand Wires				



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BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No. 8; External Development				
8.1	Angle drainage and recovery within 100' (30 m) to roadway	Lt	19,877.00		
8.2	Excavation for installation in open cutting for storm water channels, drains, culverts drains in open areas, roads, streets, lanes, including: earth pointing of walls and shoring to protect existing works, shoring and timbering the trench as dressed to designed level and dimensions, removing material, water accumulation back filling and surplus excavated material disposed of and dressed within 50 ft (15 m) back. 1) Up to 9' (3 m) depth a) By mechanical means i) Ordinary	Cu	20,007.54		
8.3	Excavation in foundation of building, bridges and other structures, including: shoring, dressing, shoring, trench sheet piling with excavated area, shoring and retaining lead up to 100' (30 m) and 10' up to 5' (1.5 m) 2) a) By Excavator i) in ordinary soil ii) Depth from 5' (1.5 m) to 15' (4.5 m) iii) in ordinary soil	Cu	12,051.25		
		Cu	1,210.12		
8.4	Perforated pipe for gas collecting for sewers and manholes, as shown on drawings including: shoring and timbering, dressing to correct section and dimensions according to long level and levels, and removing surplus water in all types of soil except slough, gravel and no fill (For Soakage Pit) i) 6" to 24" (150 to 600 mm) depth ii) 24" (600 mm) to 48" (1200 mm) depth iii) above 48" (1200 mm) depth	Cu	250.67		
		Cu	812.00		
		Cu	1,582.17		
8.5	Fill work in ordinary soil for culvert openings (up to 100' (30 m), including: ploughing, mixing and compacted by mechanical means, at optimum moisture content and dressing to designed section, complete in all respects. (Borrow fill for Road) i) 45% to 100% maximum moisture (AWD) (see Appendix)	Cu	45,000.20		
8.6	Transportation of earth all types, within the 200' distance, including				



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BILL OF QUANTITY

Sr.No	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	The bed covered in the recent work is more than 1000 m ² (1000 sq ft) (For disposal of existing Earth & Load for Engraving Filled Road is excavated from outside)				
	(a) up to 1 metre (100 m)	Cu	45000.00		
	(b) for every 500 m ² additional load or part thereof				
	to extend 5 mile (800 m) up to 100 m ² (1000 sq ft)	Cu	45000.00		
	(c) for every 500 m ² additional load or part thereof				
	to extend 10 mile (16 Km.) up to 5 mile (8 Km)	Cu	45000.00		
	(d) for every 500 m ² additional load				
	or part thereof, to extend 5 miles (8 Km.) (10 Km.) (15 Km.)	Cu	45000.00		
6.7	Spraying osmium preservative using liquid (MCC) Galls of Kemmer brand 6% Heater or equivalent as specified suspension concentration 800 Strong Adhesive. (MCC) with Ratio (1:2:2) 500g from separate approved liquid applying with shifter and container will be provided by the contractor. It seems complete in all respects as approved Service Engineer. No charge	Sq	11751.00		
6.8	Cement concrete plan including placing, compacting, finishing and curing complete including screeding and bedding of stone aggregate				
	(i) Rate 1-2-4 (107 Km Lead on road)	Sq	228.00		
	(ii) Rate 1-4-4 (117 Km Lead on main)	Sq	978.00		
6.9	Providing, laying, setting and finishing brick or stone to set 15% in 21/2" (50 mm) gauge mixed with 25% sand, for faces for drainage, complete in all respects	Cu	115.00		
6.10	Face brick work in Foundation (i) Cement, sand mortar - Ratio 1:3	Cu	6,122.00		
6.11	P.C.C. work to ground floor - (i) Cement, sand mortar - Ratio 1:3 Ground Floor	Cu	5,035.00		
6.12	Face brick work other than building up to 10' (3 m) height (i) Cement, sand mortar - Ratio 1:3	Cu	1,748.00		
	Cement Concrete				



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BILL OF QUANTITY

Sl.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
8.11	<p>Preceding and laying reinforcement concrete including prestressed concrete using Colson's Portland Cement / Sulphate resisting cement / 50kg cement bags to be reported, curbs and concrete grade and washed aggregate as required slabs and design including formwork, moulds, shuttering, lifting, compaction, curing, anchoring and casting exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.)</p> <p>(a) Reinforcement concrete for slab bases</p> <p>columns, beams, girders and other structural members laid in situ on prepared bed or position, re-panels of members cast in situ, complete in all respects. (317 Km lead on crash)</p> <p>(1) Type B (nominal mix 1:1.5:3)</p> <p>(2) Type C (nominal mix 1:2:4)</p>	Cft	6771		
		Cft	44324		
	<p>(b) Reinforcement concrete curb in quantity: shear walls laid in situ on prepared bed or position, or prestressed members cast in situ (540 m work on both sides), complete in all aspects</p> <p>(317 Km lead on crash)</p> <p>(3) Type B (nominal mix 1:1.5:3)</p> <p>(4) Type C (nominal mix 1:2:4)</p>	Cft	30476		
	<p>(c) Reinforcement concrete concrete masonry of wall / slab / length. Two slab of column and retaining walls, etc. and fixing beams with structural members other than those mentioned in (a) & (b) above not requiring form work (i.e. formwork)</p> <p>(317 Km lead on crash)</p> <p>(5) Type B (nominal mix 1:1.5:3)</p>	Cft	19176		
8.12	<p>Preceding and fabrication of mild steel reinforcement to be cast concrete including cutting, bending, laying in position, resting, joints and fixings, including cost of binding wire and labour charges for the job of steel reinforcement (theoretical amount of reinforcement bars) 10-tonne class - Grade 25</p>	Kg	4,176,62		
8.13	<p>Cement pointing street joints, on roads, upto 20 (20.00 m) height - 8 (kg/m²).</p>	Sq	14,200.00		
8.14	<p>Providing and laying sub-base course or stone product of approved quality and grade, including planning, grading, spreading and consolidation of sub-base material to required depth, conforming grade to achieve 100% maximum consolidation AASHTO specification, including carriage of all material to the work site of project including etc.</p>				



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BILL OF QUANTITY

Sr./No.	Description	Unit	Qty	Unit Rate	Amount Rs.
E	2	3	4	5	6=4x5
	(i) Crushed stone aggregate (class 317 F.M)	Cu	14851.15		
8.17	Pre-laying and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including plotting, mixing, spreading and compaction at base course at least to required depth, camber and grade as a livee 100% maximum crushed 2.35(10) dry density including carriage of all materials to site of work except gravel and aggregate (class 317 F.M)	Cu	20185.5		
8.18	Pre-laying and laying Tuff pavers having 2000 PSI, cambering, setting, bedding, and jointing, over 2" to 2 1/2" sand, subgrade, & grouting with joint in joints & finishing to regular slope - complete in all respects (2% camber, 5% Coloured)	Sq	4832.10		
	of 50-mm thick	Sq	21571.10		
8.19	Pre-laying and laying 1.5-cm edge Kerf Stone (4" to 6" thick) & 2000 PSI Composite 9-cm thick, subbed in 100% C.I. Cover over concrete 1.4-cm thick complete in all respects	Sq	1335.50		
	(i) Work Painting				
	of 1" high	sq	1335.50		
8.20	Pre-laying and laying road edging of 75 mm wide and 9" deep curb on end - complete in all respects	sq	2210.00		
8.21	Pre-laying and laying MS Grating, comprising of Angle Iron frame 50x25x2/4" and 2 1/2"/8" flat complete with 3.2% zinc, including painting, cramps etc. complete in all respects.	Sq	20.00		
8.22	Pre-laying and laying 16-Gauge MS Gate with 2" x 2" frame & 3/4" x 3/4" square bars 4" center to center fixed with 2" wide paths and best quality rollers at bottom of 1" diameter including holdfast, including the cost of one coat of primer & 2 coat of Enamel paint, complete in all respect as per drawings, specifications and as directed by the Engineer in charge	Sq	400.00		
8.23	Pre-laying & removing of Existing Gate with proper shoring/strutting without any permission not analysed by the contractor and SNGPL. The same shall be removed by the contractor and disposed by contractor after permission.	Job	1.00		



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BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.9: External Electrification				
91	Demolishing, laying, cutting, joining, testing and double-tapping 20" line in trenches with PVC / HDPE pipes of G.S.S. with 10 class working pressure complete in all res. etc.				
	of 2" (2/0000) from EXC-DU-02 to SUCP	RM	255		
	of 1" (1/0000) from SUCP to Light Pole and Pole to Pole	RM	1050		
92	Supply and erection of copper conductor cables for services connections, as per laid pipe/G.I. pipe/trenches etc. (rate for cable only).				
	7mm core, 230/440 V/0.6				
	16 mm (2/0004) from EXC-DU-02 to SUCP	RM	255		
	7 mm (2/0004) from SUCP to Light Pole and Pole to Pole	RM	900		
	PVC insulated, PVC sheathed 1 core, 60K/1000 with 10mm dia. cable				
	16 mm (2/0004) from EXC-DU-02 to SUCP	RM	0		
	7 mm (2/0004) from SUCP to Light Pole and Pole to Pole	RM	0		
93	Supply and erection of single core PVC insulated copper conductor cables, as per laid PVC pipe/G.I. conductor/G.I. pipe/trenches, stop button, weather casing, capping/G.I. weather boxes (rate for cables only).				
	16mm sq (2/0004) (for SUCP)	RM	255		
	8mm sq (2/0004) (for SUCP, SUCP to Pole and Pole to Pole)	RM	900		
94	Supply and erection of single core PVC insulated PVC sheathed copper conductor, 230/440 with grade cable 0.5% 200 ft. as per laid PVC pipe/G.I. conductor/G.I. pipe/trenches, stop button, weather casing, and capping/Weather box etc.				
	1.5 mm (2/0004) for External Light Circuit wiring (Poles E)	RM	4200		
95	Supply and erection of three core PVC insulated, PVC sheathed copper conductor, 300/1020 with grade cable 0.5% 200 ft. as per laid PVC pipe/G.I. conductor/G.I. pipe/trenches, stop button, weather casing, and capping/Weather box etc.				
	7mm core, 600/1000 with cable				
	4.75mm (2/0004) from Cable Terminal Box to Cable to				



Sr.No.	Description	Unit	Qty	Unit Rate	Amount	Rs.
	Site Light	Rs	350			
40	Supplying, erecting, testing and commissioning of 15 kg water shape electric fire extinguisher made of hot dipped 4.5 mm thick 750GAL galvanneal steel, tapered 12mm 225mm of bottom to 192 mm at top with 1500 mm x 50 mm x 3mm thick cast iron 150 lb pressure In addition duty is loaded with 470x470x20 mm base plate with the help of 4 riveting. As per order for 350x25 mm of C channel, with built as per order, with cast iron 3/4" thick cast of nuts & 1/2" dia bolts. Note five (5) to period concrete foundation, foundation will be paid additionally as approved and directed the this progress in charge Sample 3500					
	10 B Kites Flyer	Each	11			
41	Supplying, installation and commissioning of LED Ceiling light luminaires of specified voltage and lumens containing 10 IP 70 & 10, 100 or 200 or Philips/ Osram/ Hama or ETC or approved equivalent manufacturer with corrosion resistant die-cast Aluminium finishing, sunning gasket in special gaskets, 100 stable, scratch resistant, 5000 hrs, materials, thermally bonded glass complete with LED Chip Philips Lumileds or Nichia/Cree or equivalent approved manufacturer, programmable LED driver Hama, ETC/ Lumileds or Philips/ OSCEL/ ETC, or as per lighttech make or equivalent approved manufacturer, minimum full range protection including driver if the cost of programming components is required for proper operation, full details for future upgradation and easy replacement for programming purposes. Inlet elevator charges as approved and directed by the Engineer. In charge					
	100 Lux Wall	Each	13			
	02 90°/180° wide 10000 Lumens	Each	13			
42	Excavating and construction of pile foundation in concrete class A, reinforcement as per AASHTO M31, base concrete, in accordance specifications including excavation, back filling and disposal of surplus earth complete in all respect as per drawing or as directed by the Engineer	No.	15			
43	Supply, installation, testing and commissioning of following cable terminal box comprising with 2% surge miniature circuit breaker (MCB) including 6kV volt high voltage resistor copper terminal. Complete in all respect as per specification and drawing. Cable Terminal Box with 100 Amp miniature circuit breaker.	Nos	13			
44	Supply, installation, testing and commissioning of complete earthing system for Streetlight Pole. The work shall include 1 meter long copper rod of 25 mm dia 10 mm with bare copper conductor 250 mm square type earth connecting point, earthing chamber, etc. to achieve less than 2.5 ohm.					



Sr.No.	Description	Unit	Qty	Unit Rate	Amount	Rs.
	specimen casting results & regular monthly reports as per drawing and specifications as directed by the Engineer					
	Street Light Pole Scaffolding	each	8			
9.1.	Distribution Board: Fabrication, supply at site, installation, pre-commissioning, to 10 SPTs and street light poles and distribution board. It is consisting with mounting, hook, or type, front access, in each case 100 volts, 50 ampere and having come from 100 ampere to 100 ampere per site equipment. Joints to be fully earth with flexible copper cable and the to 400V, 3Ø, 3 Phase 4 wire, 90°C 230 SdH, TFF&E's, with having used to take them on in breaking capacity as mentioned in the details. Complete in all respects as per the satisfaction of the Engineer and single line diagrams.					
	Detail of EXT-DB-04					
	Incoming					
	01 No. 100 A IP MCCB 100 KA					
	01 No. Digital Ampere Meter 5-100A With Selector Switch					
	01 No. Digital Volt Meter 0-600VAC With selector switch					
	01 Nos. Control fuse for protection					
	01 Nos. Indicator Lamp (R-Y-B)					
	01 job. Brass Cable Gland for Incoming and Outgoing Cable					
	Outgoing					
	01 Nos. 50 A IP MCCB 50 KA					
	01 Nos. 32 A IP MCCB 30 KA					
	01 Nos. 32 A IP MCCB 30 KA (space only)					
	01 Nos. 32 A IP MCCB 30 KA (space only)					
	01 Nos. 32 A IP MCCB 30 KA (space only)					
	01 Nos. 32 A IP MCCB 30 KA (space only)					
	Complete in all respect as per single line diagram.	Each				
	Detail of SLC-1:					
	Incoming					
	01 No. 10 A IP MCCB 10 KA					
	01 No. Digital Ampere Meter 0-100A With Selector Switch					
	01 No. Digital Volt Meter 0-600VAC With Selector Switch					
	01 Nos. Control fuse for protection					
	01 Nos. Indicator Lamp (R-Y-B)					
	01 job. Brass Cable Gland for Incoming and Outgoing Cable					
	Outgoing					
	01 Nos. 10 A IP MCCB 10 KA for Street Light Circuits					
	02 Nos. 10 A IP MCCB 10 KA for Street Light Circuits (space only)					
	01 Nos. 10 A IP MCCB 10 KA for Street Light Circuits (space only)					
	Complete in all respect as per single line diagram	each	1			
9.12	Light Fixture Supply, installation, testing & commissioning of following fixtures					



Sr.No.	Description	Unit	Qty	Unit Rate	Amount	Rs.
	4 nos of 16.0 lights					
	4mm Galval Light	Each	48			
9.15	Supply, installation, testing and commissioning of complete earthing system for the distribution board. The work shall include 3mm to 5mm copper rod at all main can also with bare copper conductor 250mm sq/w up to over a connecting point bus case chamber, those which are less than 5 mm specified earthing rods. Complimentary respects as per details given specifications as directed by the Engineer					
	4x10500	Each	1			
	8x77	Each	1			
	Total for Bill No.9 (Carried over to Summary of Bills)					



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BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No: 10: Water Supply Network				
10.1	Excavation of trenches for all lines of all sizes including bed, for water supply pipelines upto 3.0' (1.5' net depth from ground level) including manning, dressing sides, keeping the beds of trenches in correct grade and covering pits, no joints, etc. complete in all respects	Cft	445.00		
10.2	Rehandling of earth work a) Two (2) nos. single throats of 18" dia. placed at 10' interval	Cft	1471.00		
10.3	Compaction of earthwork, forming, till 5% or over	Cft	2,571.00		
10.4	Procuring and laying sand cover and cement the sewer pipe excluding bedding, annual comp. line, complete in all respects	Cft	2,359.00		
10.5	Procuring, laying, cutting, joining, testing and discharging High Density Polyethylene (HDPE) 100 working pressure pipe (Bata/Dalco/Popular/Barco) equivalent excluding the cost of spigots, as trenches, as approved & directed by the engineer in charge, complete in all respects. DN 12 (SDR-17) a) 40 mm b) 75 mm	Rft Rft	572.00 78.00		
10.6	Procuring and laying heavy duty cast iron or sprued cast iron and material for pressure rating PN-6 mts of Class (USA), Uniflow (7%), Siron (Pakistan) or approved equivalent manholes, g/c the cost of all accessories, flanges, g/c, bell and gaskets where required, complete in all respects as approved and directed by the engineer in charge. a) Flange End of 12" dia. from valves b) 4" dia	Pcs Pcs	100		
	Procuring, laying, cutting, joining, testing, and discharging 10" G.I. pipeline in trenches, with cast iron joints, using G.I. pipes of 10" dia 100-1000 complete in all respects, with spigots and valves a) 10" dia G.I. pipe	Rft	97.00		
10.7	Procuring & construction of brick water chamber complete in all respects as per drawings & specifications & instruction of the Engineer in charge. Rate including the cost of V.C.P.				



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BILL OF QUANTITY

Sr. No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	BIII No.17.4 Overhead Reservoir 10000 Gallon				
	Excavation in foundation of building, bridges and other structures, including dogpiling, strutting, raking and/or stationing with excavated work, retaining and shoring and open work from 30 cm and up to 5 m (15 ft)				
	2) at Bx Excavator				
	1) in ordinary soil	Cu	1412.00		
	2) Depth from 30 (1.0m) to 15 ft (4.5 m) in ordinary soil	Cu	11,084.00		
	11.2 Spray on concrete piling by using liquid PVCY Bitum / Ferric Oxide Molecular Oxide (FMO) specified suspension concrete (SCC) using Aluter-HEX L&H with Ratio (1:2.5): 740 or or equivalent approved liquid e.g. by wet, slurry and aggregate will be provided by the contractor for 10-cms complete in all respects as approved by the Engineer in-charge	Cu	1,000.00		
	Block Masonry				
	11.3 Sewer brick work in Foundation, trench, and sewer				
	Rate 16				
	Excavated Floor	Cu	148.00		
	General Concrete Class - B				
	Forming and setting reinforced concrete including prestressed concrete, using ordinary Portland cement / sulphate resisting cement / slag cement as may be required, coarse sand and crushed graded and washed aggregate as required shape and design, including formwork, strutting, luting, compacting, curing, rendering and finishing exposed surface, complete including the cost of Pilecap form including the cost of steel reinforcement, 45 minutes and placing at position etc -				
	11.4 300mm Reinforced concrete column in foundation				
	columns, bracing girders and other structural members (100 mm or greater) in position or prestressed members cast in situ, complete in all respects. (217 Km Road in Multan)				
	(2) Type B (round) max 1.5m dia				
	11.1 to 11.0'	Cu	418.00		
	11.0' to 20.0'	Cu	300.50		



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BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	20"Ø to 30"Ø	Cu	202.50		
	30"Ø to 40"Ø	Cu	202.50		
	40"Ø to 48"Ø	Cu	249.68		
	48"Ø to 50"Ø	Cu	56.06		
	(B) (regimes) concrete in "ramping" phase walls laid in situ or precast laid in position or precastal members cast in situ (Form work on both sides), complete in all respects (294 Km lead on only)				
	(B) Type B (imperial mix 1:1.5:3)				
	(a) 100mm (Form 9" thick / Avg)	Cu	94.43		
	(B) Reinforced concrete in situ in detail of walls, strip foundations, base slab of columns and retaining walls, etc. and fixing beams, other structural members other than those mentioned in 616/617 above not requiring extra work (i.e. technical)				
	(a) Type B (imperial mix 1:1.5:3) (117 Km (cast in situ))	Cu	1,470.26		
11.5	Providing and fitting iron of mild steel reinforcement for concrete concrete including cutting, bending, tying in position, making joints, and fastenings including cost of binding wire and labour charges for binding of steel reinforcement not also included amount of reinforcement based on normal load (Grade 60)	Kg	26,259.71		
11.6	Concrete concrete plain including placing, compacting, finishing, and curing compound (including screening and washing of coarse aggregate)				
	(a) Ratio 1:2:1 (117 Km lead on grade)	Cu	76.06		
	(b) Ratio 1:4:8 (519 Km lead on grade)	Cu	687.17		
11.7	Providing and laying felt papers, having 200 GSM, meeting strength of approved manufacturer, over 2" to 3" sand cushion type grouting with end to joints for binding in repair shops, complete in all respects (50% Over / 50% Under)				
	(a) 100 mm thick	Sq	1,004.91		
		Per Sq ft			
11.8	Providing and using 6.3" pipe railing as per standard drawing.	2 rows of Pipe	100.00		
11.9	Providing and embedding 1" (25mm) wide PVC base slab for 6" maximum panels of U. structures (retaining walls, water tanks, etc.) complete in all respects.				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Ø 100 mm (4")	Km	56.00		
11.08	Providing and fixing 15° x 20° x 27.16° (114) of mild angle iron sleep in manhole chambers, including cutting and setting the same in work as per detail drawings and levels.	Each	300		
11.11	Providing and fixing steel valves to be 3" supply and work, 1/2" Class B, for cast iron pipelines, and Adapters connecting pipe line to existing 2" at existing manholes. Ø 100 (4") (Ø 100 mm)	Each	4		
11.12	Providing, laying, testing and commissioning of Grade-B 400 650mm dia. 1000 ft. pipe of various diameters, underlining to 400mm dia. 650mm dia. 1000 ft. pipe, under approved equivalent manholes, and tested by the test of specific complete as approved and directed by the Engineer in charge.	EO	210.00		
11.13	Providing, laying & commissioning of 100mm dia. 1000 ft. pipe of various diameters, underlining to 400mm dia. 650mm dia. 1000 ft. pipe, under approved equivalent manholes, and tested by the test of specific complete as approved and directed by the Engineer in charge.	EO	1.085		
11.14	Cleaning, testing & commissioning of 100mm dia. 1000 ft. pipe of various diameters, underlining to 400mm dia. 650mm dia. 1000 ft. pipe, under approved equivalent manholes, and tested by the test of specific complete as approved and directed by the Engineer in charge.	Job	1.00		
11.15	Providing, laying, testing and commissioning of 100mm dia. 1000 ft. pipe of various diameters, underlining to 400mm dia. 650mm dia. 1000 ft. pipe, under approved equivalent manholes, and tested by the test of specific complete as approved and directed by the Engineer in charge.	Job	1.00		
11.16	Providing and fixing C 1.4" dia. in vent of approved quality and strength on the top of manhole as per detail provided in the drawings. Complete in all respects.	Each	4.00		
11.17	Supplying and fitting 100mm dia. 1000 ft. pipe of various diameters, underlining to 400mm dia. 650mm dia. 1000 ft. pipe, under approved equivalent manholes, and tested by the test of specific complete as approved and directed by the Engineer in charge.	Each	1.00		
Total for Bill No. 11 (to be added over to Summary of Price)					



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.12, Tubewell Installation				
12.1	Contracting, access, surface drilling of bore for tubewells to 210 feet in soil except through granite and rock at 10m ground level to 250 ft (75 m) below ground level (12" to 18" (303 to 450 mm))	Rp	450		
12.2	Providing and installing Fibreglass Reinforced Polypropylene (FRP) lined pipe of specified wall thickness having 501 size of 6" (150 mm) ID in Tubewell borehole as approved and directed by the Engineer in Charge (of 5000 Section of Area)	Rp	1000		
12.3	Providing and installing Fibre glass Reinforced Polypropylene (FRP) section of specified wall thickness having an size of 6" (150 mm) ID in 12" (303 mm) ID Tubewell borehole as approved and directed by the Engineer	Rp	4000		
12.4	Providing and installing, Fibre glass blank pipe in tubewell borehole selected special sockets, including joining complete in all respect 12" (303 mm) ID and 6" thick.	Rp	10000		
12.5	Providing and installing, Fibre glass blank pipe in tubewell borehole selected special sockets, including joining complete in all respect 12" (303 mm) ID and 6" thick.	Rp	20000		
12.6	Supplying, laying, cutting, joining, testing and manning (supply included) 4" (100 mm) dia. water quality (QW) well with all fittings and sockets, break, test, ball valves etc., when required in accordance with APP-52, (Grade B) (SNGPL) to be tested by testing, applying two coats of bitumen paint complete in all respect	Rp	17500		
12.7	Providing and installing safety lock for of double wood 4"x2 250mm (1000x250x250 mm) with locking arrangement for pushing and pulling from bore hole	Job lot rough in hour	100		
12.8	Graveling with graded program of 3/8 to 1.0 inch (20 to 25 mm) around tubewell bore hole.	Per Cu	10225		
		Per 2 set			



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
12.9	Drainage to 40% of water from beneath per cent. flow holes	each/lot	100		
12.10	Testing and development of test set up to 120% of the design discharge with suitable procedure till the time, water is clean and free standing clear and test set up is capable by measuring the discharge and pumping water level.	1/2 Hr	7200		
12.11	Geophysical logging of bore hole potential resistivity both static normal and CMAQ complete in all respect	Per job	100		
12.12	Providing best quality steel to bore hole as per approved drawing.	Tr	2700		
12.13	Chemical, Physical and Bacteriological Analysis of water from approved Water Testing Lab.	Each	100		
12.14	Drinking and fixing MS cap 1/4" nominal thick to cover 12" 1375mm dia tubewell having 50ft	Each	100		
12.15	Drinking / fixing MS Cylinders	Each	210		
12.16	Drinking and fixing Electro magnetic flow Meter in Duplex House complete in all respects as per engineer in charge specification: Genral Features: Non-invasive Parts Visual (LCD) display Tamper proof Non-invasive flow measurement Detailed Metrological Specifications: size: 150mmφx100h Accuracy: Class-II (S/NL/19C) Material: Carbon steel Execution Class: IP-68 specification: Ambient Temperature: +5° to 50°C Liquid Temperature: up to 90°C Working pressure: till her minimum Ratio R=Q1/Q2 = 80 Permanent flow rate: 100/ lit, Q1 = 63 Estery life: Minimum 1 years Test type: Horizontal Compliance with: ISO 4064				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Calibration, (QMC) PIP (International Organization for Legal Metrology) by a named body of type examination certificate by a licensed body under DIRECTIVE 2004/32/EC				
	6" / 150 mm Ø	Each	1.00		
1217	Supply, install, testing and commissioning of submersible pump set (each) : 2500 Flow : 0.25 Cusec Suction depth : 100 ft MOTOR : 2CVs (6000W x 20.0 HP (2900 rpm) SUCTION : 5000 FT; SUBMERSIBLE PUMP & Motor 3" COLUMN PIPE (6"x10") Water Proof electric Cable INSULATED MAT VVVF FT MS IRHD with range MS Top Adaptor MS Fitting, CLAMP MS CASING COVER PLATE 4" MUFF BOLTS 3/8" with CAST Nuts + Pressure Gauge Motor Control Unit (with all Safety Features), Transportation & Installation as detailed	Job	1.00		
1218	Hydrostatic Calibrator with a precision accuracy of 0.1% / sec, max pressure 10 bar, made europe Procuring, fixing and testing heavy duty sludge valve including all accessories and fitting material complete in all respects as per approved by the Engineer	Job	1.00		
		Each	4.00		
1219	Pressing chamber 100 ft. bore well 200 ft. hole having internal flow 42220 (Internal size of 9.5"x5.4") comprising of EC Parts, Top and rest with MS dia 14 gauge 275x275, 4 hinges 7"x6"x6, lock and locking mechanism duly finished complete in all respects according to design drawing to the entire satisfaction of Engineer.	Job	1.00		
	Soil Sample				
1220	Taking soil samples at every 100 interval at change of strata, which ever is less, as directed by the Engineer. In every 100 sample shall be taken at a depth of 5ft	Job	12.00		
	Development				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
11.21	Dev. depth of test well to get water for test / hand pumping machinery of 15 hp - the design discharge or maximum period of 72 hrs. as continuous / 1. discharge rate the yield of water is fixed in m ³ /hr. the respective amount not less than 1000, which ever is greater, is the construction of employees.	1 hour	75.00		
11.22	Water Sample Testing Testing sample of water from the bore hole and getting chemical and physical test report. 1% Silt lab. complete in all respects.	1 job	10.00		
Total for Bill No 10 (Carried over to Summary of Price)					



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.13: Tubewell Chamber				
13.1	Excavation in foundation of building, bridges and other structures, including digging, dressing, setting around structure with excavated earth, watering and ramming level upto 100 mm and lift upto 5 ft. (1.5 m) (i) By Manual (ii) by loader and	Cu	814.20		
13.2	Spreading for water proofing by using liquid PVC/ Butyl/ Terrazole base bitulectar or equivalent as specified impregnation (2%). Mixing ratio:- HF37AR with Ratio 1:250:- 24651 or equivalent application of liquid applying tools power and equipment will be provided by the contractor for 10 years warranty in all respects as approved by the Engineer incharge	Sq	461.81		
13.3	Forming and laying damp proof course of concrete concrete L2.4 using cement, sand and aggregate including bitumen coating @ 107 Km Lead on crush (i) with 100 x 100 bitumen and 500 gsm polythene sheet 50 kg/m ² (ii) 15% sand blinding	Sq	40.00		
13.4	Cement concrete, repair including laying, compacting, finishing and curing concrete including formwork and striking of concrete (i) Ratio 1:4:8 @ 117 Km Lead on crush	Cu	165.00		
13.5	Supplying and fixing steel under floor or plugging in walls. Providing, laying, watering and ramming back in steel tubes for 100 mm dia (100 mm) gauge filled with 15% sand, for 100 mm diameter, complying in all respects	Cu	53.00		
13.6	Providing and laying topping of cement concrete L2.4 including surface finishing and dressing in place (i) 15% sand blinding	Sq	100.00		
13.7	Back (back work in foundation) in cement and mortar Ratio 1:6	Cft	281.00		
13.8	Level back work at ground level				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	ij Cement, sand mortar				
	Ratio 1:3				
	Ground Floor	Cfr	115.00		
	Cement Concrete				
11.4	Preparing and laying reinforced concrete structure including post-tensioning concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as per the required course and and concrete grade and washed aggregate in required shape and design including forms, works, shuttering, lifting, compacting, curing, rendering and finishing as per contract complete but excluding the cost of reinforcement materials and placing in position, etc. (a) Reinforced concrete structure in roof slab, beams, columns, chokes, girders and other cast-in-situ structures laid in situ or precast laid in position or precast used members cast in situ, complete and ready to 100% Km Lead or rough				
	(b) Type C, nominal 100 x 125	Cb	216.96		
11.10	Preceding and fabrication of mild steel reinforcement for concrete elements, including cutting, bending, tying in position, making parts and lashing, including cost of cutting wire and labor charges for bending of steel reinforcement bars include reinforcement (main bars), Deformed Bars (Crack-65)	Kg	751.29		
13.11	Cement pointing and repairs on walls, up to 20' height of height	Sq	56.91		
	of ratio 1:3				
13.12	Cement plaster 1:4 upto 20' height of height	Sq	521.21		
	of 1/2" (13 mm) thick				
13.13	Cement plaster 1:4 (10 mm) thick under coat of K.C.C.	Sq	121.00		
	coat shall only upto 20' height.				
	of 1:3				
13.14	Decorating surface and painting with emulsion paint				
	of first coat	Sq	521.21		
	of 2nd and each subsequent coat (two coats)	Sq	521.21		
13.15	Preceding and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer compound in all recesses				
	of new surface				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	11.16.1	Sq	114.80		
	11.16.2	Sq	114.80		
11.16	Providing and fixing steel windows using MS sheet 10.5% (including roller pipe 1.5"x1.5" (Rille 10mm) for frame and 1.5"x3.0" (Rille 10mm) for base including MS square bar 4"x4" (Rille 10mm) with double end caps and 5 mm thick glass panes fixed with double end caps roller pipe 1.5"x1.5" (Rille 10mm) (10.5% heading with U shaped roller frame, including material, including painting three coats complete in all respects. 4) For operable panes fixed with wire gauge 24.5x12x2 mm ² and glass panes 5" (127mm) thick	Sq	114.80		
11.17	1.2"x10 mm) 12.5x6 inch block, consisting of 1.2"x10 mm) 12.5x6 inch top layer of concrete and marble chips in the ratio of 1:1 and two parts of marble chips, laid over 1.2"x10 mm) 12.5x6 inch concrete base including sub-slab & polishing, complete with finishing	Sq	110.00		
11.18	1.2"x10 mm) 12.5x6 inch block, consisting of 1.2"x10 mm) 12.5x6 inch top layer of concrete and marble chips, laid over 1.2"x10 mm) 12.5x6 inch concrete base including sub-slab & polishing, complete with finishing	Sq	17.21		
11.19	Providing and fixing Tilt panels having 7500 PSI crushing strength as approved manufacturer, size 2' 6" x 2' 6" with height of glass of 600 mm and in parts of finishing to require slope, complete in all respects	Sq	99.45		
11.20	1.2"x10 mm) 12.5x6 inch block, consisting of 1.2"x10 mm) 12.5x6 inch top layer of concrete and marble chips, laid over 1.2"x10 mm) 12.5x6 inch concrete base including sub-slab & polishing, complete with finishing	Sq	28.00		
11.21	Providing and fixing mild steel chowki at doors, windows, C				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No 14: Sewerage Sewerage Network				
11.1	Earthwork excavation in open casting for sewer line and manholes, including excavating, bedding, stemming, and plastering, carrying over cover the section and dimensions, according to drawings and showing surface water in all types of soil				
	1.00 m ³ in 750 mm dia or 750 mm depth	Cu	11201		
	Note: 1. Wastes in gaoka, beams and struts are not used at site. For comparison rates may be taken as 25.5%, 25.7% & 25.2% respectively, in case of any (for item 502)				
11.2	Reinforcing of earth work				
	1. For 100 to single diameter of Kera, provision of steel	Cu	9.004		
11.3	Compaction of earthwork with power rammer, including placing, filling, tamping, rattle, tamping, roller, etc. complete				
	45% maximum consolidated (MSHTC) dry density	Cu	9.464		
11.4	Laying and fixing R.C.C. pipe, provided with concrete on site (15% of subgrade below or extra joint, etc. including cost of manholes), conforming to BS: 5901 Part 1, 1941, class "L" including carriage of pipe, connection to site of work, covering in trenches to correct alignment and grade, setting, curing provisions necessary, finishing and testing, etc. complete				
	of 225 mm Ø (1.0)	Cu	502		
11.5	Key stones, brick or stone pattern, 750 x 225 mm in 50mm gauge	Cu	989		
11.6	Construction of manholes complete in all respects as per drawings, specifications & instructions of the Engineer. The unit rate includes but not limited to excavation, backfilling at least, as per company, finished floor, 150 (1.0-1.2) R.C.C. (100 x 100) banding, brick masonry in 1:1 1/2 mortar, 1/2" thick R.C.C. plaster on both sides, bitumen waterproofing, manhole cover with 100, making holes for R.C.C. pipes, finishing in the normal and level of surface of brick masonry to complete in all respects as per drawings				
	Ø 750 mm Ø 1.0 height	Each	14		
	Total for Bill No.14 (Carried over to Summary of Price)				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	<u>Bill No.15: Toilet Block Civil Works</u>				
15.1	Cement concrete plain including placing, compacting, finishing and curing complete including watering and finishing of stone aggregate of Ratio 1:2:4 (M7.5) (Kil load as per SNGPL) (1:2:4) (M7.5) (Kil load as per SNGPL)	Sq	31.59		
		Cm	75.00		
15.2	Two brick work in grade (1:1) in of Crutch, with mortar Ratio 1:5 General Work	Sq	15.00		
	Cement Concrete				
15.3	Forming and tying rebar for concrete (including reinforcement concrete) using 1/2" dia. Per cent Cement / Sulphur making contact. Slag cement as may be required, coarse sand and washed graded and washed aggregate, to required shape and design, including form, mould, shoring, filling, stripping, curing, rendering and finishing of good quality, complete (including the cost of steel reinforcement bars, labour and placing in position of, joints for formwork, removal of concrete as per schedule items columns, beams, girders and other structural members, labour, wire or prestressing in position, or prestressing members and mortar, complete in all respects) (M7.5) (Kil load as per SNGPL)	Sq	16.00		
15.4	Reinforcing steel fabrications of mild steel reinforcement for concrete, including cutting, bending, straightening, making joints and fixings, including cost of cutting reinforcement labour charges for bending of steel reinforcement reinforcement, removal of rust from heat-treated bars (Grade 40)	Kg	46.74		
15.5	Cement plaster 1:4 upto 20' (6.10 m) height - 1/2" (13 mm) thick	Sq	99.27		
15.6	Cement plaster 1:4 upto 20' (6.10 m) height - 1/2" (13 mm) thick	Sq	99.27		
15.7	Cement plaster 3:6 (1:2) 10 mm thick under sill of P.S.C. in slabs only, upto 2' height.	Sft	153.94		



DMIS (SNGPL) MULYAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sl.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
153	Preparing surface and painting with emulsion paint.				
	(i) In total	Sq.	1,115.43		
	In 2nd and each subsequent coat	Sq.	1,115.43		
154	Protecting and applying weather shield paint of approved quality as specified on drawings and using primer and/or sealer application or primer complete in all respects.				
	(i) New masonry	Sq.	705.60		
	In 2nd coat	Sq.	705.60		
	In 3rd coat	Sq.	705.60		
1512	Providing and fixing all types of glass aluminium window of standard profile coated with powder coating and partly sliding window doors as per approved standard, having frame size of 100 x 20 mm (100 x 20) and height of 2000 mm, all of 10 mm thickness including 5 mm thick compound fixed glass with rubber gasket using approved standard latches, hardware etc. as approved by the Engineer in charge.	Sq.	25.50		
1511	Providing and fixing aluminium fly wire comprising of 6000 aluminium wire gauge (6000) fixed to aluminium frame of approved material with powder coated in size 40x20mm and 1 mm mesh with rubber gasket, cost of hardware as approved and checked by the Engineer in charge, cover cost in all respects.	Sq.	275		
1513	Providing and fixing 600 x 600 x 20 mm x 20 mm grill including 10 x 10 x 120 mm x 10 mm M.S. Bar having 10 mm dia. of approved design, including painting three coats, complete in all respects.	Sq.	25.50		
1514	Providing and laying super quality Portland Mortar tiles (K. group of MASTER) laid of specified size on approved design, Color and Shade with adhesive/ bond over 20/40 three (3) M cement plaster (i) the cost of water for filling the joints (i) cutting grinding complete in all respects as approved and directed by the Engineer in charge.				
	(i) Full body Mortar tiles				
	(ii) 400 mm x 400 mm	Sq.	152.94		
1514	Providing and laying super quality Portland Mortar tiles of Master brand, starting, 1' x 1' of specified size, Color and Shade				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.16: Toilet Block Plumbing Works				
16.1	Providing and fixing, chromium plated soap dish.	Each	2.00		
16.2	Providing and fixing chromium plate Toilet paper holder.	Each	1.00		
16.2	Providing and fixing, chromium plated brass door - 3'60 cm (24") long, and 2' cm (8") dia.	Each	2.00		
16.3	Providing and fixing locking glass 50x40 cm (22"x16") size and 5 mm thick first quality	Each	2.00		
16.4	Providing and fixing one piece (European Coupled set of Water Closet (WC) and Flushing System of INCEFA brand (Full size) or approved equivalent manufacturer) including the cost of 1/2" rubber gaskets, complete normal seal cover and rawal bolts complete in all respects as approved and directed by the Engineer incharge.	Each	1.00		
	Providing and fixing white glazed earthen ware water closet, square type, with separate floor rest	Each	2.00		
16.5	Providing and fixing glazed earthen ware wash hand basin 50x40 cm (22"x16") including bracket set, water pipe and waste plumbing etc. Under Counter Vanity Basin	Each	2.00		
16.5	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink in shower	Each	2.00		
16.7	Providing and fixing CP bath basin (set made of bronze / Metal / Enamel or approved quality manufacturer) comprising of 3/4" Tee trap cocks level type Basin Mixer, double hot/cold, open wall shower, Machine sensor, waste plumbing and bottle trap etc. complete in all respects as approved and directed by the Engineer incharge.				
	(i) 3/4" Tee Trap Lock (set)	Each	1.00		
	(ii) Double Hot/Cold	Each	1.00		
	(iii) Machine shower	Each	3.00		
	(iv) Bottle Trap	Each	2.00		
16.8	Providing, fixing, testing or decommissioning of u-PVC (Unplasticized polyvinyl Chloride) / Bitumastic / waste pipe, fittings make of Dulex / Duro / Pops / Pops or approved equivalent manufacturer, conforming to BS 6524 / BS 5255 including the cost of solvents complete in all respects as approved and directed by the Engineer incharge.				



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SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	c) Vent Cowl				
	(iii) 2' dia	Each	500		
	d) Clean Out				
	(i) 4' dia	Each	500		
	(ii) 2' dia	Each	500		
	PIPING & VALVES				
16.9	Providing, laying, testing and commissioning of 2" HDPE PIPE RANIX-MOLDED POLYMER (MPC) water supply pipe (Lanes / Joints) or its approved equivalent equivalent, with specified pressure rating (PN) (PSI) (BAR) NOMINAL and conforming to IS 8077: 2008 (including cost of valve, specials, making flanges complete in all respects as specified and directed by Engineer In-charge (Internal/ External Diameter mentioned)				
	PN 25 Cold Pipe				
	Cold 25 mm o/d	Rt	10000		
	PN-25 Hot Pipe				
	Hot 25 mm o/d	Rt	1500		
16.10	Providing, laying, testing, joining, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working pressure pipe (Lanes / Joints) or its approved equivalent manufacturer, including the cost of specials, in trenches, as approved & directed by the engineer in-charge, complete in all respects.				
	PN 10 (SIR-17)				
	40 mm	Pc- Rlt	2500		
16.11	Providing, laying and testing PPRC Gate valves of specified diameter and material for pressure rating made of Lanes / Flange (Turkey / Flat / Turkey) or approved equivalent manufacturer, including the cost of all accessories (gaskets/bolt and gasket) where required complete in all respects as approved and directed by the Engineer In-charge.				
	(a) PPRC Valves				
	(iii) 1" dia o/d	Each	1000		
16.12	Supply & installation of CPVC / PVC Air Vents as per B.S.S 4514 & 5255 at specified size provided at the highest point (Pipe Raft) in all cases as approved and directed by the Engineer In-charge.				
	(iii) 10mm o/d	Each	500		
16.13	Providing, laying, cutting, joining, testing and disinfecting pipe line in trenches with PVC / nPVC pipes of B.S.S 4514 & 5255 with D Class working pressure complete in all respects.				
	at 2' o/d (50 mm)	Rt	2500		



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.17- To/for Block Electrical Works				
17.1	Supply and installation of PVC pipe for wiring installed in walls including inspection boxes, pull boxes, boxes, outlet, junction and repairing switches etc., complete with all specials				
	25 mm (1") for Power Wiring	Rm	120		
	16 mm (5/8") for Circuit Wiring	Rm	125		
	25 mm (1") for Power Wiring	Rm	41		
	25 mm (1") for AC Wiring	Rm	7		
17.2	Supply and installation of PVC pipe for concealed wiring in air and sub-soil (if required) including blocks, specials etc. in floor, wall or trenches				
	40 mm (1 1/2") for CTR, A-HF	Rm			
	40 mm (1 1/2") for AIR, DB	Rm			
	100 mm (4") for CTR, DB	Rm	5		
	100 mm (4") for CTR, DB	Rm			
17.3	Supply and installation of single core PVC insulated 70°C sheathed copper conductor, 250/110 V (for general use), 1000/200 V, 3 phase PVC pipe/MV, including GI pipe/wireless strip, junction, material, wiring and capping/terminals etc.				
	1.5 mm ² (27.029) for Power wiring (P+N-E)	kg	350		
	2.5 mm ² (27.029) for Circuit wiring (P+N-E)	Rm	149		
	4 mm ² (27.029) for Power Wiring (P+N-E)	Rm	122		
	6 mm ² (27.029) for AC Wiring (P+N-E)	Rm	7		
17.4	Supply and installation of copper conductor of MVA for service (including in ground pipe/G.I. wire/trenchless, etc. rate for cable only)				
	PVC insulated PVC sheathed four core, 100/1000 volt non armoured cable				
	4 core 25 (27.029) for Service through structures	Rm			
	16 mm (1/2") (27.029) for Power Cable for MV	Rm	4		
	25 mm (1 1/2") (27.029) for Power Cable for MV	Rm	0		
	45 mm (1 3/4") (27.029) Main Power Cable for AIR, DB	Rm	0		
17.5	Supply and installation of single core PVC insulated copper conductor of 70°C, 3 phase PVC pipe/MV, including GI pipe/wireless strip, junction, material, wiring and capping/G.I. wire/terminals (rate for cables only)				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount	Rs
1	2	3	4	5	6=4x5	
	10*750 extra 15% (containing Lead Copper Conductor) (B.S.S)					
	1 mm sq (5/06/1)	kg				
	30 mm sq (7/06/1)	kg	0			
	30 mm sq (4/07/1)	kg	0			
17.1	Providing and fixing Copper bonded Exhaust Fan with motor and starter made of P.B./Composite/P.V.C. or S.S./S.A approved equivalent made according to the cost of material and labour for same, including installation as per specification and directed by Engineer in charge.					
	Plastic fan					
	47.30" dia	Each	4			
17.7	Providing and fixing Exhaust Fanng Label NIP: A approved Copper coated Spring Fan (for use in corrosive atmosphere) and hardware accessories as approved and directed by Engineer in charge					
	16" dia	Each	0			
	16" dia	Each	0			
	20" dia	Each	0			
17.8	Providing and fixing Exhaust Fanng Label NIP: A approved Copper coated wall bracket Fan (for use in corrosive atmosphere) and hardware accessories as approved and directed by Engineer in charge					
	16" Dia	Each	0			
17.9	Providing and fixing of fixtures under CO2 Fire Type for poly carbamate chamber, Lot. No. (201) (containing approved equivalent with Phase, neutral and earth terminal strips with glands, supports including all mounting accessories as per specification complete in all aspect					
	3.5" Hb. Indoor/Outdoor type	Each	0			
	200% T.R. Outdoor Indoor/Outdoor type	Each	0			
17.10	1) F.P.V. double layer Switch for (for plastic) shape made with trunk 2) the cost of material / labour / material cost of the life / bulb / accessories, or approved equivalent accessories complete as approved and directed by Engineer in charge					
	Low voltage Lamp Switch, Small					
	0L Gang	Each	0			



DMIS (SNGPL) MULTAN

SUJ NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	10 Gang	Each	2		
	15 Gang	Each	1		
	Three pin Type Plug, 10:17 Amp	Each	4		
	Line Runner	Each			
	Three Pin Power Plug 15:32 Amp	Each			
	One way Gang Switch 2 stage				
	24 Gang	Each	1		
	25 Gang	Each	0		
	26 Gang	Each	0		
	In last set of set of 24's with matching plug.				
	1:1, 5 pin Three Phase Industrial Sockets	Each			
	1:1, 5 pin Three Phase Industrial Plug	Each			
17.11	Supply, installation, testing & commissioning of 15000. Short Steel pump control box. Item is to be installed, tested in wall including accessories. Complete in all respects as per specifications and as approved by Engineer				
	a) Small 6" x 6"	Each	1		
	b) Large 6" x 6"	Each	1		
	111 Switch Gear				
	Minimum supply of site, installation and commissioning of 111 Traction Main Panel Board of 111 KV induction type, three terminal rack of enclosure 4.500, with flexible earthing straps, designed and described as per specifications, finished with 60 micron powder coating of 100 micron thickness in approved color RAL 7052, panel box top 1000mm x 1000mm x 1000mm, with hinged door handles at 90 degrees, essential wiring, designation labels on ACB, MCC, W, earthing bar, monitoring bus, on the control wires, MCCB suitable for system voltage 415 v, 50 Hz, 11000 A, 20000 A, has bar of 2.50 mm diameter copper, including cost of cable termination lugs, terminal glands, earthing & lightning cables, wiring load breakers, indicator lamps, instruments and control accessories complete as all aspects.				
	All incoming and outgoing breakers shall be accessible by opening the front door by using additional 5.5 step cover Ladders shall also be provided when necessary. MCCB shall have Permanently connected exhaust fan & tube light with door switch on both sides				
17.12	Low Tension Main Panel Board (Ground Floor) (111KV-02)				
	Excavating from Existing Source				
	DN No. 126-40/MCCP, 18.76 by 1.10-1975 by				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	01 No. Surge protective device (MVA 4F)				
	02 Nos. Digital Volt Meter (500V AC)				
	03 Nos. Digital Ammeter (Max. 0-150A)				
	04 No. Under/Over Voltage, Phase failure, Phase loss protection relay				
	05 Nos. Indicator Lamp (R-Y-B ON/OFF) and Trip				
	06 Nos. (Inch) Oil Bush nutten				
	07 Nos. Current Transformer (125/5)				
	08 Nos. Control SW/ON-OFF push button				
	09 Ins. brass Cable Clipping Kit (max. Cable size as per above list)				
	Output:				
	01 Nos. 30 A TP MCCB (C) 25 kV (air) 100% Ics				
	02 Nos. 30 A TP MCCB (C) 16 kV (air) 100% Ics				
	03 Nos. 40 A TP MCCB (C) 16 kV (air) 100% Ics				
	04 Nos. 63 A TP MCCB (C) 16 kV (air) 100% Ics (Spare)				
	05 Nos. 10 A TP MCCB (C) 16 kV (air) 100% Ics (Spare)				
	06 Nos. 40 A TP MCCB (C) (Spare) (Dry)				
	Complete in all aspect as per single line diagram	Each	1		
	Distribution Board				
	Take-over supply to the installation and commissioning of 10 MW 11 kV distribution board, free standing wall mounting, rubber type, front access, protection class III, with incoming and outgoing compartments from top or bottom as per site requirement, clear inside, earth wire flexible copper cable suitable for 45V AC, 50 Hz and water, 600/230 V AC, 100% Ics system having rated service short circuit breaking capacity as mentioned in the details. Complete in all aspect as per the detail of the required and single line diagram.				
	Detail of Bill of Qty:				
	Counting:				
	01 No. 30 A TP MCCB (C) 10 kV				
	02 No. Digital Square Meter (0-1500 kWh) meter with Switch				
	03 No. Digital kWh Meter (0-99999 kWh) with Meter Switch				
	04 Nos. Control Box, as per detail				
	05 Nos. Indicator Lamp (R-Y-B)				
	06 Job (Inch) Cable Clipping Kit for Incoming and Outgoing Cable				
	Outgoing:				
	07 Nos. 10 A SE MCCB (C) 05 kV for Light Circuits				
	08 Nos. 20 A SE MCCB (C) 05 kV for Power Circuits				
	09 Nos. 40/20 A SE MCCB (C) 05 kV (Spare)				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Complete in all respect as per single line diagram	Each			
	Detail of DBLP-1-CP				
	Incoming:				
	01 Nos. 10A SP MCB RC 10 KA				
	02 Nos. Digital Ampere Meter 0-100A With Selector Switch				
	03 Nos. Digital Volt Meter 0-250V AC With Selector Switch				
	04 Nos. Control Fuse for protection				
	05 Nos. Indicator Lamp (R-Y-G)				
	06 Job Brass Cable Band for Incoming and Outgoing Cable				
	Outgoing:				
	07 Nos. 10A SP MCB RC 10 KA for Light Circuits				
	08 Nos. 20A SP MCB RC 20 KA for Power Circuits				
	09 Nos. 10/20A SP MCB RC (In Use Spare)				
	Complete in all respect as per single line diagram	Each			
	Detail of DBLP-1-EP				
	Incoming:				
	21 Nos. 10A SP MCB RC 10 KA				
	22 Nos. Digital Ampere Meter 0-100A With Selector Switch				
	23 Nos. Digital Volt Meter 0-250V AC With Selector Switch				
	24 Nos. Control Fuse for protection				
	25 Nos. Indicator Lamp (R-Y-G)				
	26 Job Brass Cable Band for Incoming and Outgoing Cable				
	Incoming:				
	27 Nos. 10A SP MCB RC 10 KA for Light Circuits				
	28 Nos. 20A SP MCB RC 20 KA for Power Circuits				
	29 Nos. 10/20A SP MCB RC (In Use Spare)				
	Complete in all respect as per single line diagram	Each			
17.13	Supply, installation and commissioning of 2' x 2' floor box with 2 Nos. 10A power sockets and 1 No. 15A power and 1 No. 20A 15A	Each			
	Complete in all respect				
17.14	Power Sockets:				
	Supply and installation of various types of power sockets. Complete in all respects				
	1 Pin 20 Amp Power Socket	Each	0		
	1 Pin 20 Amp Power Socket for AC	Each	0		
	1 Amp Power Socket Universal type	Each	0		
17.15	Supply at site & installation of PVC Conduit & components with				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No.18: Compressor Room Civil Works				
161	Concrete curb plain including placing, compacting, ramming and curing, including screeding and wedging, in stone aggregate				
	of Rate 1.2 (117 Km local on road)	Cft	75.00		
	of Rate 1.4 (517 Km local on road)	Cft	100.00		
162	Paint bulk work in ground floor				
	of Cement, sand, lime etc.				
	of Rate 15				
	Ground Floor	Cft	16.00		
163	Concrete plaster 1:1:6 up to 2" (50 mm) to g/c				
	of Rate 17 (1000 sq ft)	Sq	912.40		
164	Concrete plaster 1:1:6 up to 2" (50 mm) to g/c				
	of Rate 17 (1000 sq ft)	Sq	912.40		
165	Concrete plaster 1:1:6 up to 2" (50 mm) to g/c				
	of Rate 17 (1000 sq ft)	Sq	242.50		
166	Preparation surface and painting with emulsion paint				
	of Rate 18	Sq	954.00		
	of Rate 18 (1000 sq ft)	Sq	944.00		
167	Providing and applying, sand for finish part of approved quality on external surface of building including preparation of surface, application of primer coat etc. all as per				
	of Rate 19	Sq	1,102.50		
	of Rate 19	Sq	1,302.50		
168	Providing and fitting all types of glazed Aluminium windows of wood/ply powder coated pan y steel and partly sliding using Jalis sections or approved manufacturer having frame size of 100 x 100 mm				
	of Rate 20 (1000 sq ft)	Sq	10.00		
169	Providing and fitting Aluminium Jalis sections comprising of Fibre/				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Amount on wire gauge (bladed) used to obtain a trace of approved drawing (air) powder / sand of size 450 micron and				
	1.00 mm thick with 0.10 mm grid pattern of hardware as approved and directed by the engineer in charge is complete in all respects	sq	10.00		
16.10	Providing and laying M.S. (40 x 40 x 4) frames to support grid including 5% extra for wastage and M.S. Oil (100 g) in washes of approved design including painting three coats, complete in all respects	sq	12.00		
16.11	1500 mm thick mosaic flooring, consisting of 600 x 300 mm size topping of one part of cement and stable square as the ratio of 1:1.50 and two parts of mortar chips laid over 75 mm thick floor of 1:3 cement concrete including rubbing of 3 polishing complete with rendering	sq	262.50		
16.12	Finishing and tying 40 mm thick, Precaston Slabs of Master brand, including 40 mm thick concrete, water and shade with admixture bent over 1/2" thick (1.25 cement plaster of the coat of and water to finishing the joints, cutting grinding complete in all respects as approved and directed by the Engineer in charge				
	i) 400 mm x 400 mm	sq	22.14		
16.13	Providing and laying and No slip 30 mm thick for dressing the mosaic flooring into joints	sq	110.00		
	a) 500 mm x 500 mm (30 x 10 mm)				
16.14	Providing and laying top insulation, comprising of single layer of 100 mm thick (100 x 100 mm) graded with cement sand mortar 1:1.50 over 25 mm thick sand (including sand plaster) over the concrete slab, over poly. eth sheet 300 gauge over a layer of bitumen, complete in all respects	sq	135.00		
	iii) This is over sheet 25 mm thick				
16.15	Providing and laying MS beam (channel) comprising of 400 x 40 x 20 Brackets of IS 800 MS steel welded to floor frame of size 200 x 40 x 500 MS pipe with thick rubber at the end of channel. 1" dia MS sliding ball joint used at the joint complete in all respects as approved and directed by the Engineer in charge	sq	84.00		



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr. No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Bill No. 19: Compressor Room Electrical Works				
19.1	Supply and installation of PVC pipe in wiring concealed in walls including inspection boxes, pull boxes, ducting, fittings and repairing surface to complete with all spacers 25 mm dia for 100% Wiring	Rm	125		
	25 mm dia for Control Wiring	Rm	21		
	25 mm dia for Power Wiring	Rm	41		
	25 mm dia for AC Wiring	Rm	6		
19.2	Supply and installation of PVC pipe for access wiring in main and sub-main purpose, including boxes, specials, etc. as per schedule of materials 50 mm dia for DBs, AHTs	Rm	150		
	50 mm dia for AHT DBs	Rm			
	100 mm dia for FTB/PTB	Rm	11		
	100 mm dia for FTB/PTB CF	Rm			
19.3	Supply and installation of single core PVC insulated PVC sheathed copper conductor, 250/400 volts grade with IPB-200L or pre-laid PVC pipe (KLS standard) G.I. pipe / wooden strip bonding / wooden casing / capping / brackets etc. 1.5 mm ² (7/0.25) for Panel wiring (P-N-E)	Rm	375		
	2.5 mm ² (7/0.32) for Control wiring (P-N-E)	Rm	10		
	1 mm ² (7/0.25) for Power Wiring (P-N-E)	Rm	122		
	6 mm ² (7/0.74) for AC Wiring (P-N-E)	Rm	6		
19.4	Supply and installation of copper conductor cables for services including in pre-laid pipe/G.I. wire / metal etc. as per schedule of materials PVC insulated, PVC sheathed four core 500/1000 volts non armoured cable 6 mm sq (7/0.44) for Sink Switch Machines	Rm			
	16 mm sq (7/0.64) Main Power for Compressor Room, DBI	Rm	150		
	25 mm sq (7/0.82) Main Power Cable for DBs	Rm	6		
	35 mm sq (7/0.92) Main Power Cable for AHT/DBs	Rm	6		
19.5	Supply and installation of single core PVC insulated copper conductor cables, or pre-laid PVC pipe (KLS standard) G.I. pipe / wooden strip bonding / wooden casing / capping / G.I. etc. as per schedule of materials only.				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Pre/Post pipe PVC Insulation (with Copper Conductor, BSV)				
	4 mm sq (7/0040)	Rft			
	25 mm sq (7/0040)	Rft	150		
	50 mm sq (09/0072)	Rft	0		
196	Precking and fixing Copper Braided Exhaust Fan with cover and structure made of Galvanized/G.I./C.I. or S.I. as approved/equivalent manufacturer to the cost of necessary tools and hardware for completion including as complete as approved and directed by Engineer in Charge				
	Flash Bolt				
	1/2" dia	Each	1		
197	Precking and fixing Insulation Energy Label NERC Approved Copper wireed Coding Fan to the cost of necessary tools and hardware for completion as approved and directed by Engineer in Charge				
	1/2" dia	Each	2		
	1/4" dia	Each	0		
	3/8" dia	Each	0		
198	Precking and fixing Insulation Energy Label NEECA approved Copper wireed wall mounted fan to the cost of necessary tools and hardware for completion as approved and directed by Engineer in Charge				
	1/2" dia	Each	0		
199	Precking and fixing of Isolator in on/Off and On Type in poly carbonate or Insulated (eg: 400V Schneider or approved equivalent) of Phase, neutral and earth terminal strips, cable glands, tags including all mounting accessories as per specification complete in all respect.				
	400V IES Isolator Inlet/Outlet type	Each	0		
	200V IES Isolator Inlet/Outlet type	Each	0		
200	Pre Fix, double layer Switch Vit Free plate with special switch lock to the cost of switches, sockets, fuses, made of U.P. /PVC /Schneider or approved/equivalent material, wire, wire complete as approved and directed by the Engineer in Charge				
	One way Change Switch (Small)				
	01 Way	Each	0		



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
i	2	3	4	5	6=4x5
	03 Gang	Each	0		
	03 Gang	Each	0		
	Three Pin Loose Plug 10, 11 Amp	Each	2		
	Gas Detector	Each			
	Three Pin Loose Plug 15, 32 Amp	Each			
	One way Gauge 500 x 110 mm				
	54 Gang	Each	2		
	45 Gang	Each	0		
	16 Gang	Each	0		
	Industrial Socket IP 67 with matching plug.				
	16A 3 Pin Three Phase Industrial Socket	Each	2		
	16A 3 Pin Three Phase Industrial Plug	Each	2		
19.11	Supply, installation, testing & commissioning of 16 SNG Street Box powder coated black finish with cast iron lid, 200 x 250 x 100 mm, wall mounting, including accessories, complete in all respects per specifications and as approved by Engineer				
	16 SNG Street Box	Each	0		
	16 SNG Street Box	Each	2		
	Distribution Board				
	Supply, installation and commissioning of 16 SNG distribution board (industrial distribution board) free standing wall mounting, 16 SNG Street Box (16 SNG Street Box) maximum class 600 Volts, mounting and wiring, commissioning, 16 SNG Street Box per the requirement, done in black with flexible copper cable and the use of 4.5% Al, 3 Phase 4 wire 100/200/300 V TNCS system having satisfactory short circuit breaking capacity as mentioned in the details. Complete in all respects as per the satisfaction of the engineer and single line diagram				
	Detail of DBLP - Compression Room				
	Incoming				
	01 No. 25 A 1P MCCB RC 16 KA				
	01 No. Digital Ampere Meter 200A With Selector Switch				
	01 No. Digital Volt Meter 500V AC With Selector Switch				
	01 No. Control fuse for protection				
	01 No. Indicator Lamp (R-Y-G)				
	01 No. Bus Cable (2nd Year Incoming and Outgoing Cable)				
	Outgoing				
	01 No. 25 A 1P MCCB RC 16 KA				
	01 No. 15 A SP MC 10 RC 10 Light Circuit				



DMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	2 Nos. 20A 1P MKC 10KV 10KA (Spand)				
	2 Nos. 20A 5P MKC 10KV 10KA (Spand)				
	Complete in all respects as per single line diagram	Each			
19.12	Supply, installation and commissioning of 2 x 2 Heat loss with 2 Nos LED power sockets and 1 No RJ 45 data point and 1 No ESD 1 telephone point. Complete in all respects	Each			
19.13	Power Sockets				
	Supply and installation of various types of power sockets. Complete in all respects				
	3 Pw 20 Amp Power Socket	Each	0		
	1 Pw 20 Amp Power Socket for AC	Each	0		
	11 Amp Power Socket Levered Type	Each	0		
19.14	Supply of 17.5 ampere hour 18V track lights compatible with switch & socket plates to be installed				
	Insertion type 18V AC general use	Each			
19.15	Light Fixtures				
	Supply, installation, wiring & commissioning of following various types of LED lights:				
	Controllable 10 Watt LED Down Light	Each	0		
	Controllable 12 Watt LED Down Light	Each	0		
	Wall Bracket Light	Each	0		
	Ceiling mounted 36 Watt 2'x2' Panel Light	Each	0		
	Mirror Light 18 Watt	Each	0		
	LED Panel Light 1'2" x 4'0" 36 Watt	Each			
	Water tight Floodlight 18 Watt	Each	8		
	Fluorescent Light 18 Watt	Each	4		
	Battery Operated Emergency Light 18 Watt	Each	0		
	Emergency Exit Light	Each			
19.16	Supply, installation, testing and commissioning of complete cabling system for the distribution board. The work shall include 3 meter long copper rod of 20 mm dia size with bare copper conductors 2x50 mm dia for upto 1000 meters long from measurement standard, etc. to address 1000 meters long from specified cabling details. Complete in all respects as per drawing and specifications as attached in the Enquiry. IIR Compliance Exam	Each	1		



DNIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs
1	2	3	4	5	6=4x5
	Bill Nr.20: Meter Yard Sheds Civil Works				
20.1	Angle excavation and retaining within 10ft (3.0 m) a) Heavy	Cir	4,577.00		
20.2	Filling, spreading and compacting with made up stone a) with size earth to size 2.00m 30cm dia, 30cm depth and diam 10 cm.	Cir	12,199.00		
20.3	Transportation of each all types water the (100) distance including des and covers in the item of work, more than 1000 ft (300 m) (for disposal of existing Earth & sand for Engineer fill and Backfill transported from outside) a) upto 5 cum (100 ft) b) for every 250 ft (500 m) additional road in part item of, second 5 cum (100 ft) upto one mile 11.6 Km. c) for every 5 cum (100 ft) additional road in part item of, third 5 cum (100 ft) upto 5 mile (8 Km) d) for every 10 cum (100 ft) additional road e) for every 10 cum (100 ft) upto 5 mile (8 Km) to 10 Km length	Cir Cir Cir Cir Cir	52,011.00 2,200.00 1,000.00 2,200.00 2,200.00		
20.4	applying in the following by using liquid EMUL- 8000; Emulose Liquid Mix (EML) in equivalent of specified suspension concentrate (SC), Mixing Ratio- 10:8:1:60 with Ratio (1:2): 1:4:25 (1) or equivalent approved liquid applying with gloves and containers will be provided by the contractor for 10 years complete in all respects as approved by the Engineer Incharge	sq	4,577.00		
20.5	Cement concrete plan including placing, compacting, finishing and curing complete including watering and washing of stone aggregate a) Ratio 1:2:4 (17 Km length on shed) b) Ratio 1:4:8 (257 Km length on shed)	Cir Cir	778.00 1,510.00		
20.6	Supplying and fitting sand under 1000 ft of plugging in wells	Cir	2,288.00		
20.7	Pro-A back work in ground slabs: a) Cement sand mortar Ratio 1:3 b) Sand Hoop	Cir Cir	588.50		
	Cement Concrete				



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SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Accounting and Billing as per schedule rates including wastage, contingencies, using Ordinary Portland Cement / Sulfate resisting cement / Sand content as may be required, coarse sand, in- crushed graded and washed aggregate, for required shape and design, including cost, mould, shuttering, lifting, erecting, curing, removing and loading spread unless complete (but excluding the cost of scaffolding, cost of formwork and formwork, including the cost of reinforcement concrete in formwork, beams, columns, girders and other structural members cast in similar position in position of precast concrete members cast in situ, complete in the works (28d Com. Load on work)				
208	✓ 10 per cent of work (max 1.20)	Cm	109.55		
209	Accounting and fabrication of mild steel reinforcement for rebar work, including cutting, bending, fixing in position, making joints and fastenings including cost of bending bars and labor charges for bending of steel reinforcement bars in the removal of rust from mild. Del. rate 1 bar/c, rate 50/-	Kg	2,968.44		
210	General painting work, on walls, up to 20' (6.00 m) high, in category 1	Sq	1,710.00		
211	Fabrication of heavy cast work, with angle iron, fabricated in and steel used for making trusses, girders, tanks, etc., including cutting, docking, bending, riveting, assembling and using, but excluding erection in position	Kg	1,744.85		
	Position in 10' high at position from trusses, strutting and tanks, etc.	Kg	1,744.85		
212	Painting work, on Repairing and painting 200 mesh bars, 200 mesh bars, gratings, railing including standards, bracing, on land in similar open work:- □ painting work	Sq	1,269.87		
	on each side of structure of panel, 1.50 x 1.50	Sq	1,269.87		
213	Providing & fixing corrugated galvanized iron sheets with G.I. bolts and hexagonal nuts, on top, on, complete in all stages, with all valleys and ridges:- 12.22 BSG	Sq	1,300.00		
214	Rs. 25 per sq. ft. (100 sq. meter) 100 mm diameter R. (100 mm diameter)	Rd	150.00		



OMIS (SNGPL) MULTAN

SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)

BILL OF QUANTITY

Sr. No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
20.15	Preparing, laying, testing and commissioning polypropylene used				
	Polypropylene pipes of size of nominal diameter conforming to				
	PS-305 (S-16.750) Dwg. No. of approved specification				
	manufactured by the contractor and as complete as				
	approved and shown to the Engineer in charge				
	a) Class-D	RM	120.00		
	b) L.S.				
	Total for Bill No.20				
	(Carried over to Summary of Prices)				



DMIS (SNGPL) MULTAN
SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)
BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs
1	2	3	4	5	6=4x5
	BILL No.23: Meter Yard Sheds Electrical Works				
23.	supply and installation of PVC pipe for wiring concealed in walls, including suspension boxes, pull boxes, bends, cutting joints and repairing sockets, etc., complete with all specials				
	25 mm dia for Power Wiring	RM	278		
	25 mm dia for Light Wiring	Rm	515		
	25 mm dia for Power Wiring	Rm	160		
	25 mm dia for AC Wiring	Rm	0		
24.2	Supply and installation of PVC pipe for concealed wiring (with and without conduit) purposes, including bends, splices, etc. in floor, wall or overhead				
	75 mm dia for 0.075 KV (500V)	KM	207		
	100 mm dia for 0.2 KV (250V)	Rm			
	100 mm dia for 1 KV (10KV)	Rm	0		
	100 mm dia for 11KV (11KV)	KM			
24.3	Supply and installation of single core PVC insulated PVC sheathed copper conductor, 277/440 volt 1 phase cable (PVC/0.075 KV, 0.2 KV, 1 KV, 11KV) in conduit/G.I. pipe/wooden suspension and capping/terminals, etc.				
	15 mm sq (277/440V) for Power Wiring (P+N+G)	Rm	835		
	25 mm sq (277/440V) for Power Wiring (P+N+G)	Rm	1514		
	4 mm sq (1KV/0.2KV) for Power Wiring (P+N+G)	Rm	479		
	6 mm sq (277/440V) for AC Wiring (P+N+G)	Rm	0		
24.4	Supply and installation of copper conductor cables for service connection in precast pipe/G.I. wall/brackets, etc. (for cable only)				
	PVC insulated PVC sheathed 3 core 100/190/250 mm armoured cable:				
	6 mm sq (1KV/0.2KV) for Power Wiring (P+N+G)	Rm			
	10 mm sq (277/440V) for Power Cable for 0.075 KV	Rm	200		
	25 mm sq (277/440V) for Power Cable for 0.075 KV	Rm	0		
	95 mm sq (1KV/0.2KV) for Power Cable for AC Wiring	Rm	0		
24.5	Supply and installation of single core PVC insulated copper conductor cables in precast PVC pipe/G.I. wall/brackets				
	PVC/wooden suspension and capping/terminals, etc.				



DMIS (SNGPL) MULTAN
SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)
BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	100% PVC insulated flexible Copper Conductor (CCC)				
	8 mm sq (7.0047)	Rft			
	16 mm sq (7.0047)	Rft	200		
	25 mm sq (7.0047)	Rft	0		
214	Providing and fixing Copper Braided fabric fan with cover and shroud made of Pak/Urdu/Al.F.C. or NECA approved equivalent materials up to the cost of necessary cable and hardware for transmission setting and completion as approved and directed by Engineer in charge				
	Make/Model				
	8" dia	Each	0		
215	Providing and fixing Pakistan Energy Label (NECA approved) Copper braided Ceiling Fan (to the cost of necessary cable and hardware for connection as approved and directed by Engineer in charge				
	8" dia	Each	0		
	10" dia	Each	0		
	12" dia	Each	0		
216	Providing and fixing Pakistan Energy Label (NECA approved) Copper braided wall bracket (to the cost of necessary cable and hardware for connection as approved and directed by Engineer in charge				
	8" dia	Each	0		
219	Providing and fixing of isolators (insulation type) in Polyethylene enclosure (legally approved) equivalent with Phase, neutral and earth terminal shape cable glands, etc including all mounting accessories as per specification complete in all aspect.				
	100A 1PN isolate Insulator/0.13sq type	Each	0		
	200A 1PN isolate Insulator/0.13sq type	Each	0		
2210	100% PVC insulated Switch kit Box type with enclosed switch boxes (to the cost of necessary hardware/insulation of the kit) which is approved equivalent material used, sensor complete as approved and directed by the Engineer in charge				
	One way, 100 amp Switch (small)				
	11.5amp	Each	0		



DMIS (SNGPL) MULTAN
SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)
BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	02 Gang	Each	0		
	03 Gang	Each	0		
	Three pin Light Plug; 100 WATT	Each	0		
	Two Pinner	Each			
	Five Pin Power Plug 15-32 Amp	Each			
	One way Gang (switch & plug)				
	04 Gang	Each	0		
	05 Gang	Each	0		
	06 Gang	Each	0		
	Industrial Socket IP 65 with washing plug				
	16A, 5-pin Three Phase Industrial Socket	Each	2		
	16A, 5-pin Three Phase Industrial Plug	Each			
21.1	Supply, installation, testing & commissioning of 16 SWG Sheet Steel powder coated back Boxes with earth terminals, mounted in wall including accessories, complete in all respect as per specifications and as approved by Engineer				
	05 nos of 16"	Each	0		
	05 nos of 18"	Each	0		
	Distribution Board:				
	Fabrication, supply, erection, installation and commissioning of 16 SWG mild steel sheet metal distribution board free standing wall mounting, voltage up to 1000 volts, maximum 100 slots including inbuilt bus, connections, main top or bottom bus, etc. etc require wall, door to entry cable with fixed copper cable suitable for IPV 30, 5 Phase & with 600/250 2019 IP667 system having main switch about 1000 A rating capacity as mentioned in the Details. Complete in all respects as per the satisfaction of the engineer and single line diagram.				
	Detail of DB: 1-LGF:				
	Incoming				
	01 No. 10 A 1P MCB RC 14.5A				
	01 No. Digital Ampere Meter 0-100A With Selector Switch				
	01 No. Digital Volt Meter 0-600V AC With Selector Switch				
	01 No. 10 Amp Fuse cut outs				
	01 No. Indicator Lamp (10-12V)				
	01 Job Box Cable Gland for Incoming 3P 100 sqmm 1.5M				
	Outgoing				
	02 No. 10 A 5P MCB RC 14.5 A for Light Circuits				
	7 Nos. 30 A 5 P MCB RC 14.5 A for Power Circuits				



DMIS (SNGPL) MULTAN
SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)
BILL OF QUANTITY

Sl. No.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Supply, installation & testing of 20 A SP-MCB/RC/G.L.S. Pipework				
	Complete to all aspects as per single line diagram	Each			
23.12	Power Sockets				
	Supply and installation of various types of power sockets. Complete in all respects.				
	17.5A 20 Amp Power Socket	Each	11		
	3 Pin 20 Amp Power Socket for A.C.	Each	0		
	12 Amp Power Socket Industrial Type	Each	24		
24.11	Supply of size & installation of PVC back boxes compatible with available & suitable plates to be installed.				
	For use for 5767 for general use	Each			
24.14	Light fixtures				
	Supply, trade, wiring, testing & commissioning of following various types of LED lights				
	Ceiling mounted 18 Watt LED Down light	Each	0		
	Ceiling mounted 12 Watt LED Down light	Each	0		
	Wall Socket type	Each	0		
	Ceiling mounted 30 Watt 2 x 2 Panel light	Each	0		
	Master Light 18 Watt	Each	0		
	LED Panel Light 14" x 40" 30 Watt	Each			
	Waterproof Bulkhead light 18 Watt	Each	10		
	Linear Tube Light 30 Watt	Each	11		
	Hi Bay Light 160 Watt	Each	10		
	Emergency Fan Light	Each			
24.15	Supply, installation, testing and commissioning of complete outgoing system for the distribution board. The work shall include 4mm ² wiring up to and including 20 extra size with bare copper conductors for 250 mm spacing 200 mm spacing point, main line chamber, etc as applicable less than 25 meter.				
	As per meeting minutes. Complete in all respects as per drawing and specifications as referred by the Engineer				
	Main LT Panel (115/170)	Each			
	Main LT Panel (115/170-L1)	Each			



DMIS (SNGPL) MULTAN
SUI NORTHERN GAS PIPELINES LIMITED (SNGPL)
BILL OF QUANTITY

Sr.Nr.	Description	Unit	Qty	Unit Rate	Amount Rs.
1	2	3	4	5	6=4x5
	Total for Bill No.23 (Crossed over to Summary of Price)				





Sui Northern Gas Pipelines Limited
SNGPL

SNGPL MULTAN

DMIS MULTAN ~~11KV~~
~~EXTENSION~~

REMAINING WORKS

TENDER DRAWINGS

JANUARY, 2026



ASIAN CONSULTING ENGINEERS (PVT) LTD.
55-A, PH-1, 10 BLOCK, GREEN FORT I, LAHORE, PAKISTAN
TELEPHONE: +92 42 3545214-5
FAX: +92 42 35450016 WWW.ASECONSULT.COM

LIST OF DRAWINGS

Sr. Nr.	Description	Drg.Nr.	Sr. Nr.	Description	Drg.Nr.
	DMIS BUILDING			DMIS BUILDING	
	Civil Works			Structure Works	
1	Location Plan	SNGPL-MUL-DIMS-C-01	49	Lift Machine Room Slab Reinforcement Plan	SNGPL-MUL-DIMS-S-01
2	Master Plan	SNGPL-MUL-DIMS-C-02		SCRAP,REPLACEABLE & FUTURE STORE	
3	Working Ground Floor Plan	SNGPL-MUL-DIMS-C-03	50	General Notes I	SNGPL-MUL-SRS-GN-01
4	Working first Floor Plan	SNGPL-MUL-DIMS-C-04	51	General Notes II	SNGPL-MUL-SRS-GN-02
5	Working Roof Plan	SNGPL-MUL-DIMS-C-05	52	MS Roof Truss Base & Roof Framing Plan And Truss Elevation	SNGPL-MUL-SRS-S-01
6	Working Roof Top	SNGPL-MUL-DIMS-C-06	53	MS Truss Connection Details	SNGPL-MUL-SRS-S-02
7	Front & Rear Elevation	SNGPL-MUL-DIMS-C-07	54	Septic Tank Structural Details	SNGPL-MUL-SRS-S-03
8	Right & Left Side Elevation	SNGPL-MUL-DIMS-C-08	55	Pump & Manhole Structural Details	SNGPL-MUL-SRS-S-04
9	Section A-A & B-B	SNGPL-MUL-DIMS-C-09	56	Under Ground Water Tank Structural Details	SNGPL-MUL-SRS-S-05
10	Doors & Window Elevation & Schedule	SNGPL-MUL-DIMS-C-10	57	Sinkage Pit Structural Details	SNGPL-MUL-SRS-S-06
11	Flooring Pattern Ground Floor	SNGPL-MUL-DIMS-C-11		Generators Room	
12	Flooring Pattern First Floor	SNGPL-MUL-DIMS-C-12	58	Generator Room Structural Details	SNGPL-MUL-GRS-S-01
13	Flooring Pattern Roof Floor	SNGPL-MUL-DIMS-C-13		DMIS BUILDING	
14	False Ceiling Ground Floor Plan	SNGPL-MUL-DIMS-C-14		Electrical Works	
15	False Ceiling First Floor Plan	SNGPL-MUL-DIMS-C-15	59	Electrical Legends, General Notes & Earthing Detail	SNGPL-MUL-DIMS-E-01
16	Furniture Layout Ground Floor Plan	SNGPL-MUL-DIMS-C-16	60	Street Lighting Layout Plan	SNGPL-MUL-DIMS-E-02
17	Furniture Layout First Floor Plan	SNGPL-MUL-DIMS-C-17	61	Coordination Layout Plan Ground & First Floor Plan (As Built)	SNGPL-MUL-DIMS-E-03
18	Ground Floor Toilet Detail	SNGPL-MUL-DIMS-C-18	62	Lighting Lay out Plan Ground & First Floor Plan (As Built)	SNGPL-MUL-DIMS-E-04
19	Emergency Stair Case & Lift Detail	SNGPL-MUL-DIMS-C-19	63	Power Layout Plan Ground & First Floor Plan (As Built)	SNGPL-MUL-DIMS-E-05
20	Ramp Plan & Details	SNGPL-MUL-DIMS-C-20	64	AC Layout Plan Ground & First Floor Plan (As Built)	SNGPL-MUL-DIMS-E-06
	TOILET BLOCK		65	Telephone Data Ground & First Floor Plan (As Built)	SNGPL-MUL-DIMS-E-07
21	Location Plan	SNGPL-MUL-TO-C-01	66	Fire Alarm System Layout Ground & First Floor Plan (As Built)	SNGPL-MUL-DIMS-E-08
22	Toilet Block Plan & Details	SNGPL-MUL-TO-C-02	67	CCTV Layout Plan Ground & First Floor Plan (As Built)	SNGPL-MUL-DIMS-E-09
	COMPRESSOR ROOM		68	Single Line Diagram of Sub Main Panel Board	SNGPL-MUL-DIMS-E-10
23	Location Plan	SNGPL-MUL-COM-C-01	69	Detail of Distribution Boards UF, LF.	SNGPL-MUL-DIMS-E-11
24	Compressor Room Detail Plan	SNGPL-MUL-COM-C-02	70	EXTERNAL ELECTRICAL CABLE TRENCH LAYOUT PLAN	SNGPL-MUL-DIMS-E-12
	SCRAPE,REPLACEABLE & FUTURE STORE			TOILET BLOCK	
25	Location Plan	SNGPL-MUL-SRS-C-01	71	Lighting & Elevation Layout Plan	SNGPL-MUL-TO-E-01
26	Scrape, Replaceable & Future Store	SNGPL-MUL-SRS-C-02		COMPRESSOR ROOM	
	BOUNDARY WALL		72	Lighting, Power & Elevation Layout Plan Compressor Room	SNGPL-MUL-COM-E-02
27	Location Plan	SNGPL-MUL-BO-C-01		SCRAPE,REPLACEABLE & FUTURE STORE	
28	Boundary Wall Plan & Elevations	SNGPL-MUL-BO-C-02	73	Electrical Legends, General Notes & Earthing Detail	SNGPL-MUL-SRS-E-01
	TUBE WELL		74	Electrical Layout Plans of Scrape, Replaceable & Future Store	SNGPL-MUL-SRS-E-02
29	Location Plan	SNGPL-MUL-TW-01		DMIS BUILDING	

LIST OF DRAWINGS

Sr. Nr.	Description	Drg.Nr.	Sr. Nr.	Description	Drg.Nr.
30	Tube Well Plan, Notes & Elevations	SNGPL-MUL-TW-01		PLUMBING WORKS	
31	Tube Well Section & Tube Well Detail 'B'	SNGPL-MUL-TW-02	75	LEGEND AND NOTES (PLUMBING)	SNGPL-MUL-DMIS-PI-01
32	Doors, Windows Details, Excavation, Roof Drainage Plan & Reinforcement Details	SNGPL-MUL-TW-03	76	SURFACE DRAIN LAYOUT	SNGPL-MUL-DMIS-PI-02
33	Tube Well Excavation Plan	SNGPL-MUL-TW-04	77	GROUND FLOOR DRAINAGE SYSTEM LAYOUT	SNGPL-MUL-DMIS-PI-03
34	Electrical Layout Plan	SNGPL-MUL-TW-E-01	78	GROUND FLOOR WATER SUPPLY SYSTEM LAYOUT	SNGPL-MUL-DMIS-PI-04
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35	Location Plan	SNGPL-MUL-OHR-C-00	80	GROUND FLOOR FIRE PROTECTION SYSTEM LAYOUT	SNGPL-MUL-DMIS-FF-01
36	General Notes-I	SNGPL-MUL-OHR-GN-01	81	FIRST FLOOR FIRE PROTECTION SYSTEM LAYOUT	SNGPL-MUL-DMIS-FF-02
37	General Notes-II	SNGPL-MUL-OHR-GN-02	82	LEGEND AND NOTES (HVAC)	SNGPL-MUL-DMIS-AC-01
38	Over Head Reservoir Layout: Plan 10000 Gallons	SNGPL-MUL-OHR-C-01	83	GROUND FLOOR HVAC SYSTEM LAYOUT	SNGPL-MUL-DMIS-AC-02
39	Over Head Reservoir Sectional Details 10000 Gallons	SNGPL-MUL-OHR-C-02	84	FIRST FLOOR HVAC SYSTEM LAYOUT	SNGPL-MUL-DMIS-AC-03
40	Over Head Reservoir Lighting Layout Plan	SNGPL-MUL-OHR-E-01	85	ROOF HVAC SYSTEM LAYOUT	SNGPL-MUL-DMIS-AC-04
41	Over Head Reservoir Piping Layout Plan	SNGPL-MUL-OHR-P-01		TOILET BLOCK	
42	Over Head Reservoir Section A-A	SNGPL-MUL-OHR-P-02	86	Legend And Notes (PLUMBING)	SNGPL-MUL-TO-PI-01
43	Foundation Layout Plan And Sectional Details	SNGPL-MUL-OHR-S-01	87	Ground Floor Drainage System Layout	SNGPL-MUL-TO-PI-02
44	Plinth, Bracing & Reinforcement Plans	SNGPL-MUL-OHR-S-02	88	Ground Floor Water System Layout	SNGPL-MUL-TO-PI-06
45	Becc Beam & O.J.L.W T Sectional Details	SNGPL-MUL-OHR-S-03	89	Legend And Notes (HVAC)	SNGPL-MUL-TO-AC-01
46	Stair Reinforcement Details	SNGPL-MUL-OHR-S-04	90	Ground Floor HVAC System Layout	SNGPL-MUL-TO-AC-02
	GENERATOR ROOM			WATSAN	
47	Location Plan	SNGPL-MUL-GR-C-01	91	Sewerage System	SNGPL-MUL-DMIS-SEW-AC-01
48	Generator Room Plan & Details	SNGPL-MUL-GR-C-02	92	Water Supply System	SNGPL-MUL-DMIS-WS-AC-01

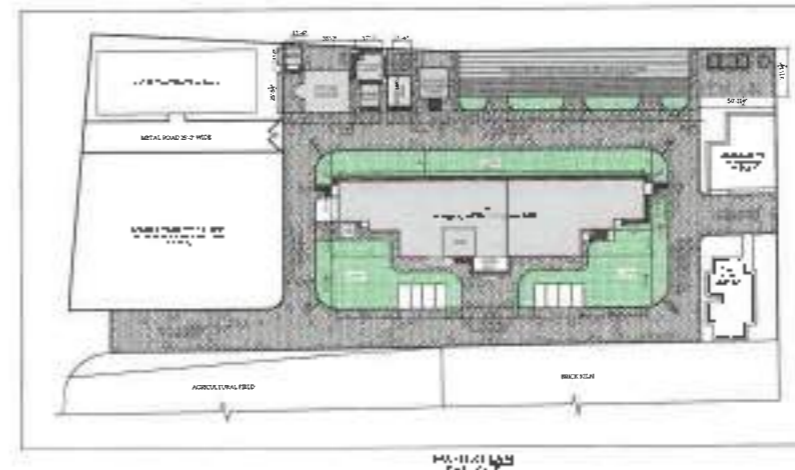
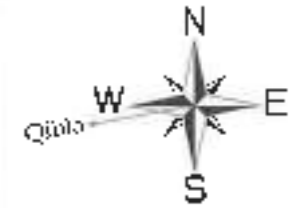


DOMESTIC METER INSPECTION SHOP



Architecture

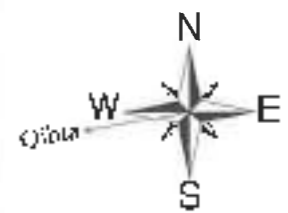
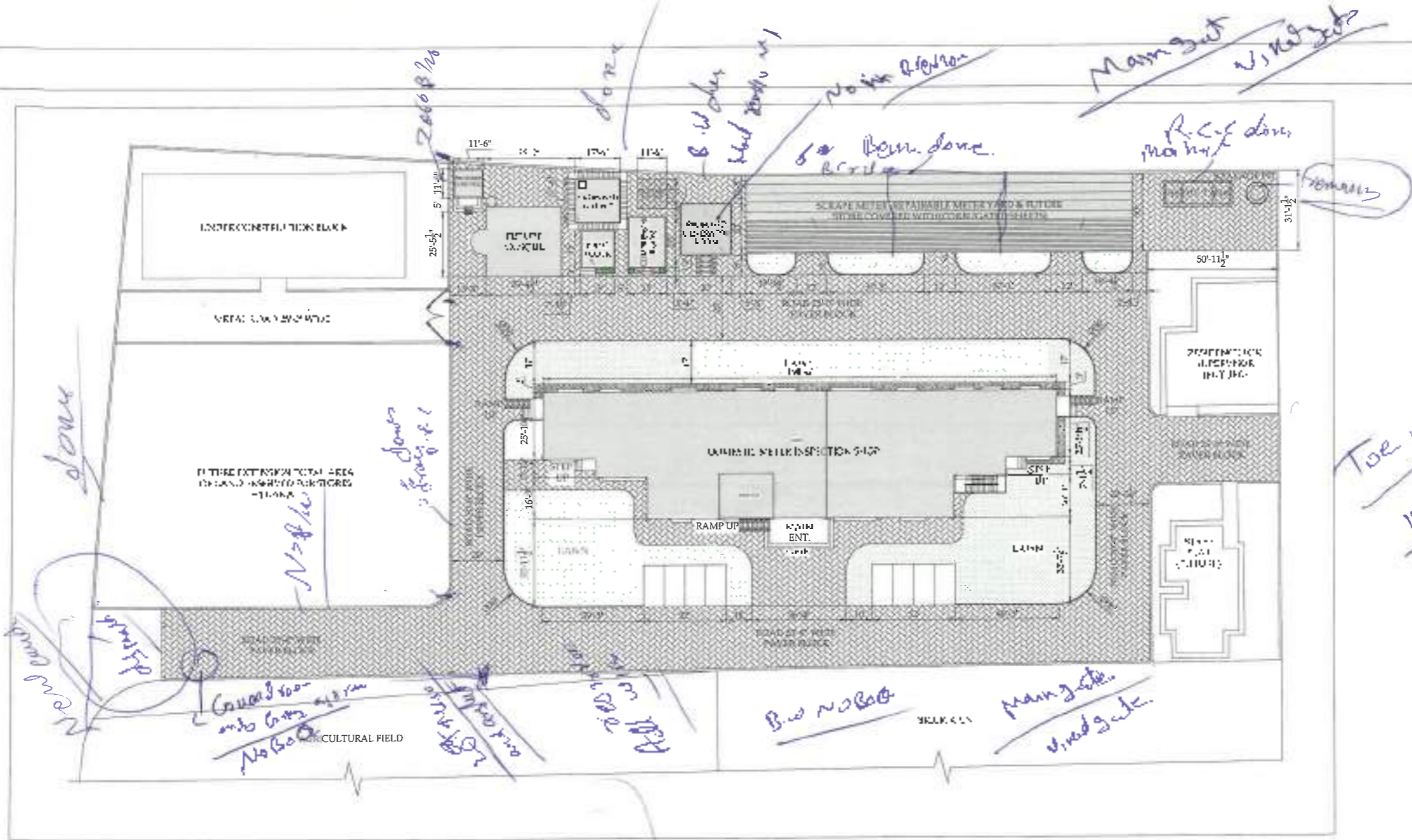




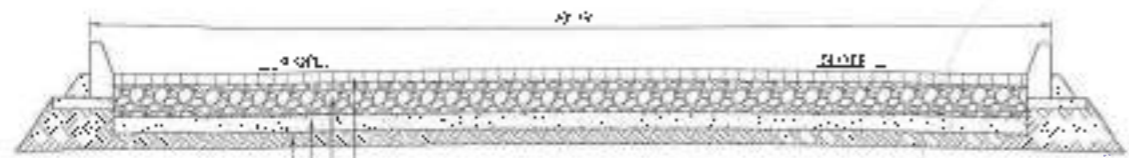
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FROM SHEP SITE INSPECTION SHEET AT MULTAN			
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SHEP-MUL-DMS-C-01

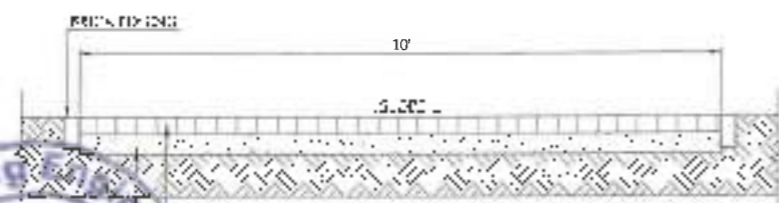




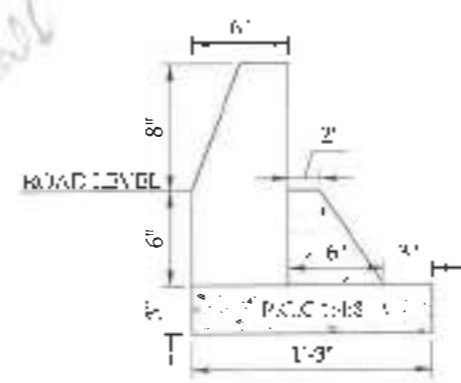
MASTER PLAN
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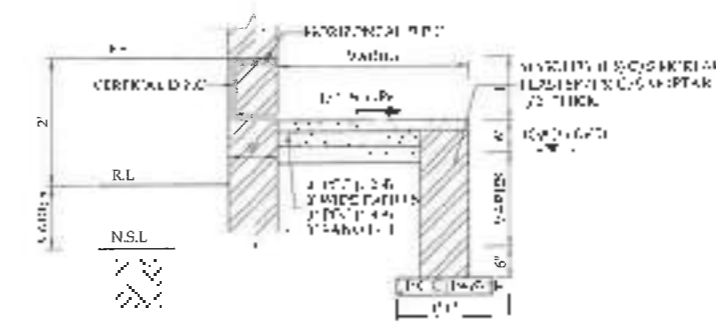
TYPICAL CROSS SECTION OF ROAD
SCALE: 1/2" = 1'-0"



TYPICAL CROSS SECTION OF WALKWAY
SCALE: 1/2" = 1'-0"



X SEC. KERB - STONE
SCALE: 1" = 1'-0"

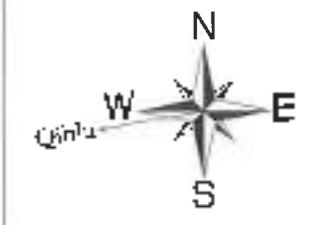


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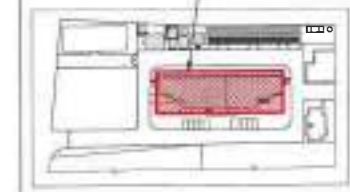
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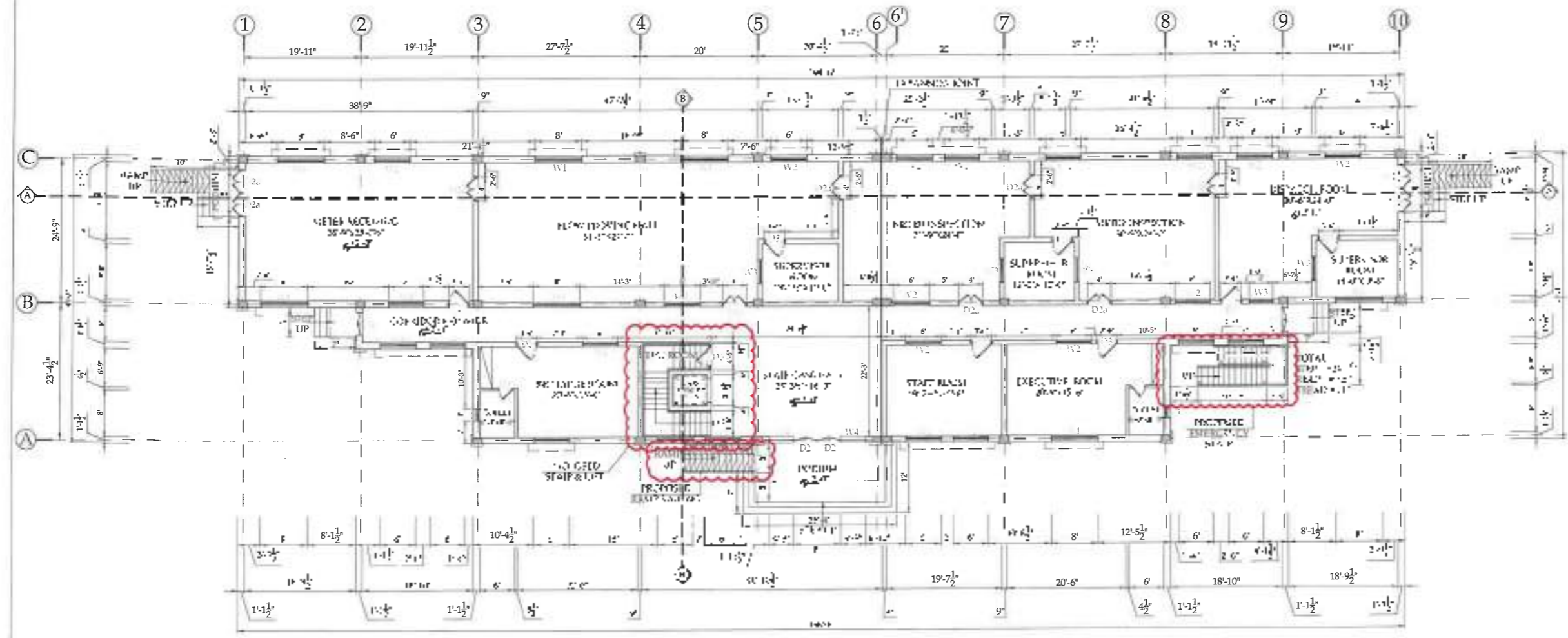
SMEPL MUL-DWIS-D-02



OWS RING



KEY PLAN



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

AREA STATEMENT	
GROUND FLOOR COVERED AREA	= 2400 sqm
MEASUREMENT OF COVERED AREA	= 2400 sqm
MEASUREMENT OF OPEN AREA	= 327 sqm
TOTAL COVERED AREA	= 2727 sqm

SHSPL MULTIA
REF

GROUND FLOOR PLAN
(AS SHOWN)

NO.	DATE	BY	CHKD BY	REVISION

SHSPL MULTIA

DOMESTIC METER
RANGE: 0-100 SHSPL MULTIA

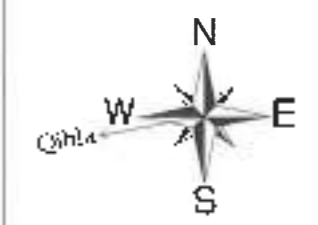
ENGINEERING COUNCIL OF PAKISTAN
ECP

DATE: 10/10/2018

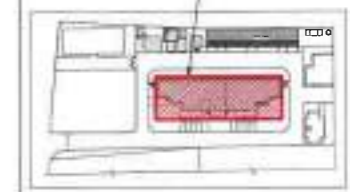
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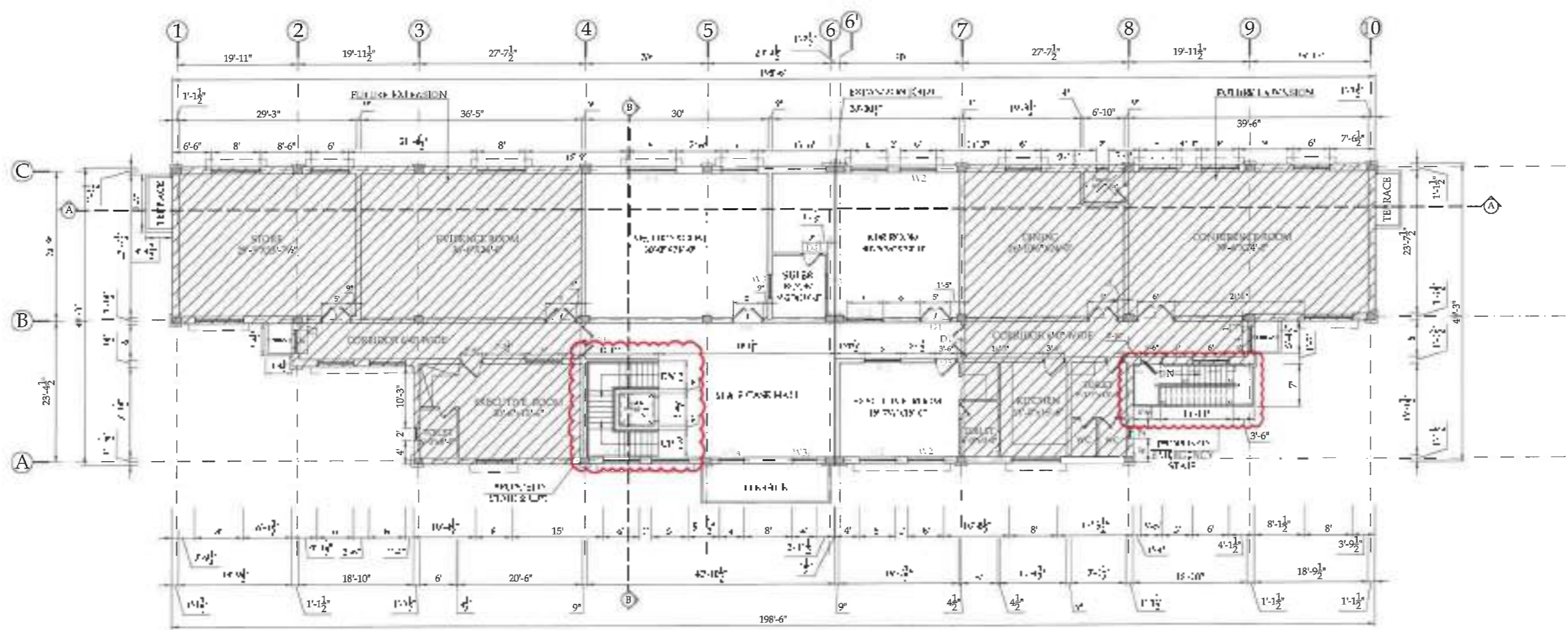
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DMIS BUILDING



KEY PLAN

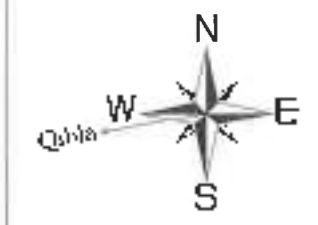


FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

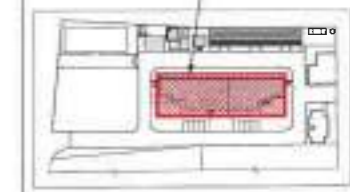
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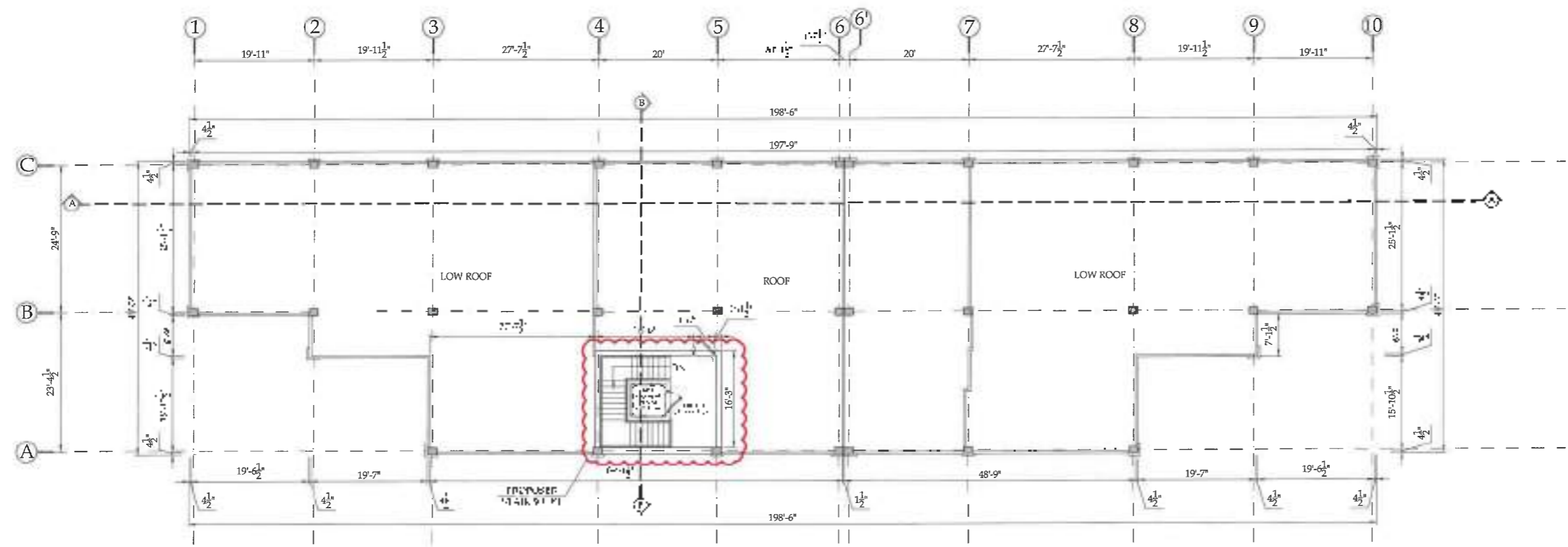
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DMIS BUILDING



KEY PLAN

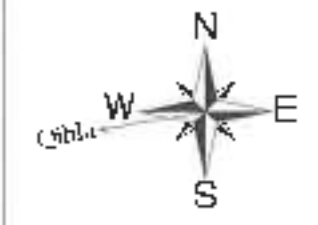


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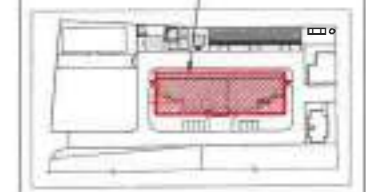
SNGPI MUL TAN		
MUMTY FLOOR PLAN		
DATE:	DATE:	DATE:
BY:	BY:	BY:
CHKD:	CHKD:	CHKD:
APPROVED:	DATE:	REV:
SNGPI-MUL-DMIS-C-05	08/11	01
PROJECT:		
DOMESTIC METER INSPECTION REPORT AT MUL TAN		
CLIENT:		



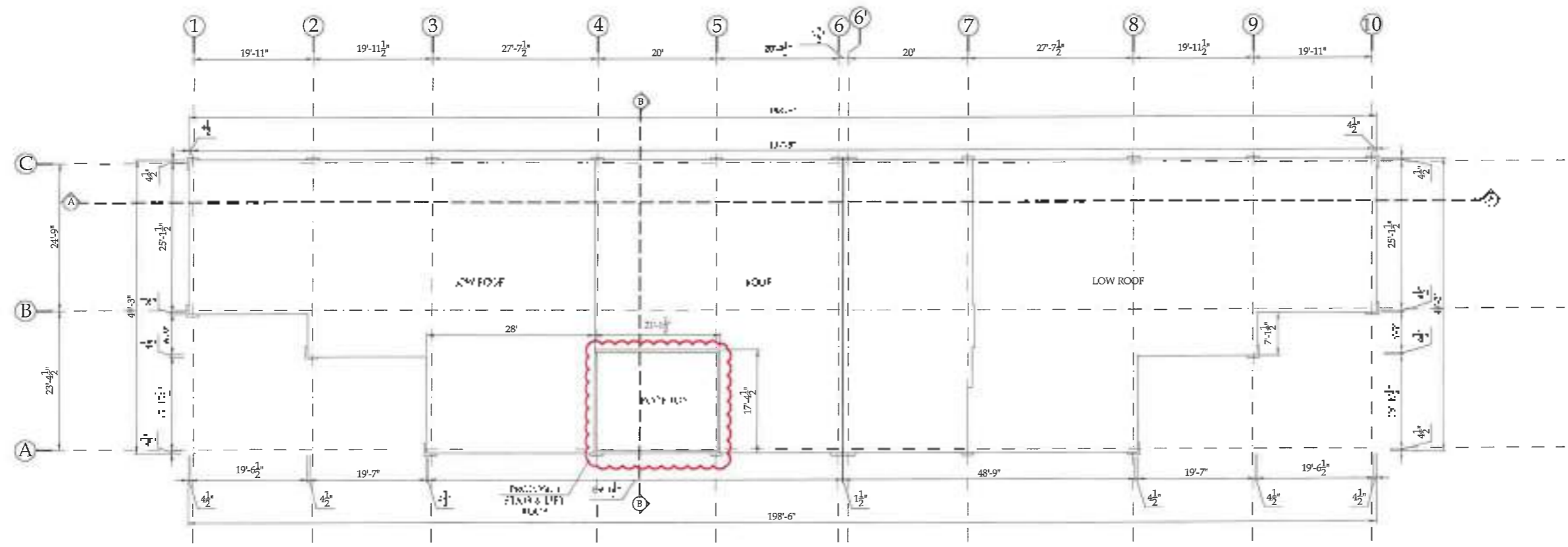
SNGPI-MUL-DMIS-C-05



DMIS BUILDING

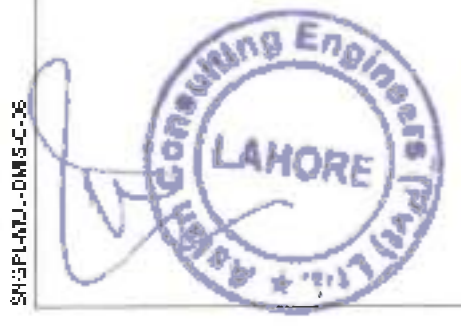


KEY PLAN

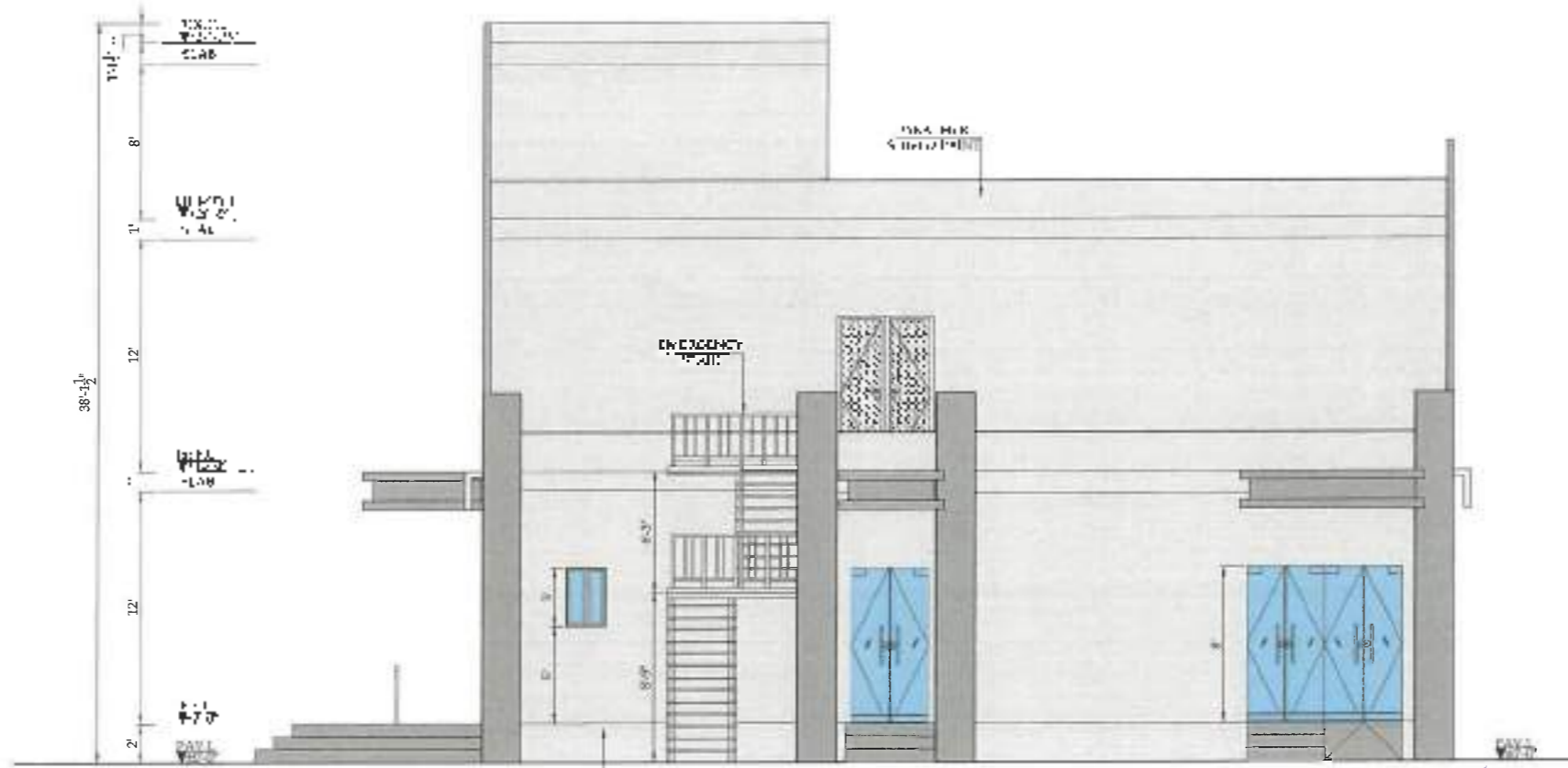


ROOF TOP
SCALE: 1/16" = 1'-0"

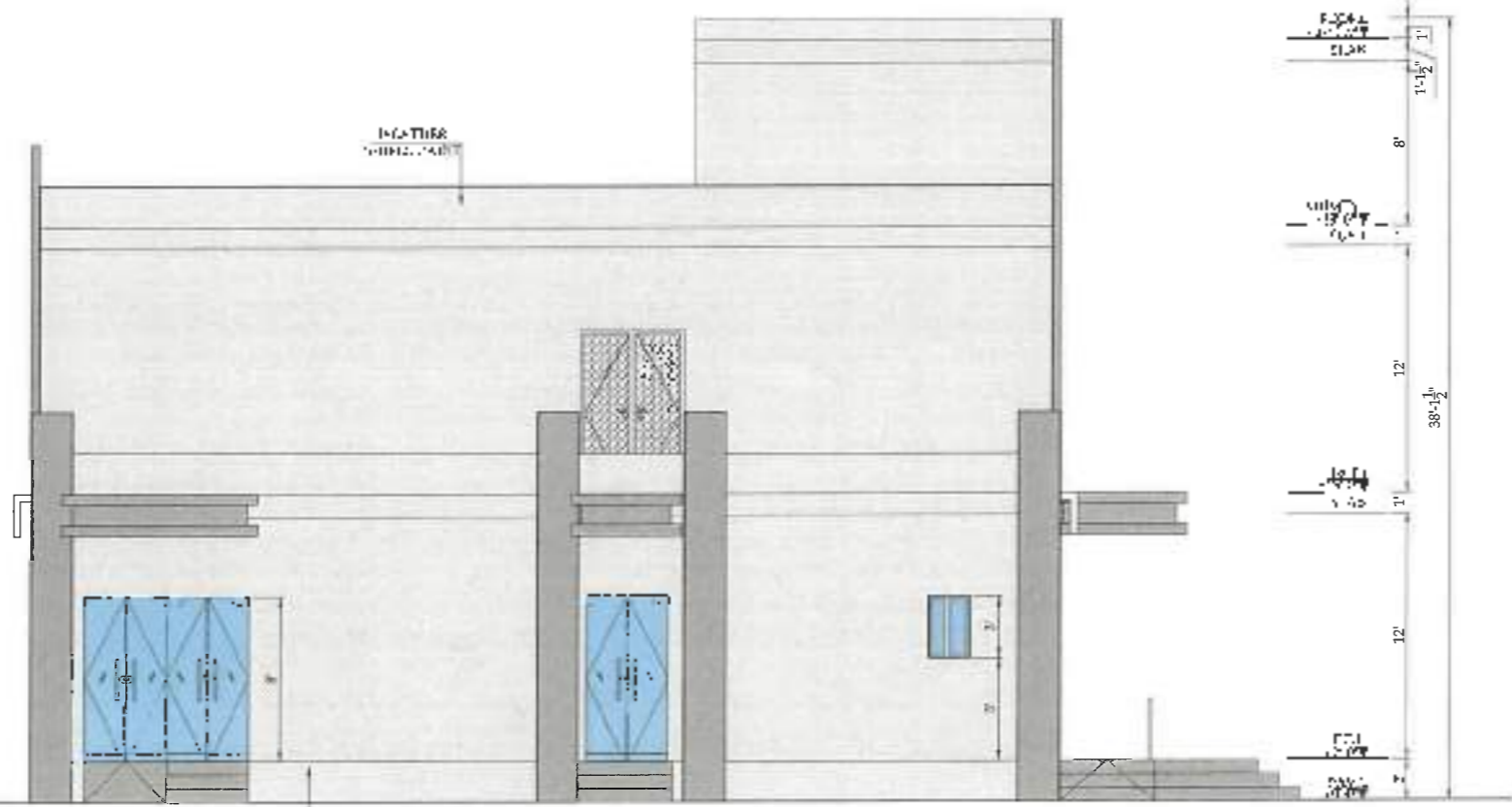
SNGPL MULTAN	
ROOF TOP	
DATE:	SCALE:
PROJECT:	NO.:
SNGPL-MUL-EMIS-C-06	06
ENGINEER:	
INSPECTION SUPERVISOR:	
CLIENT:	



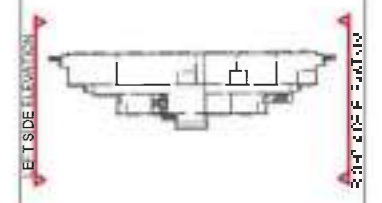
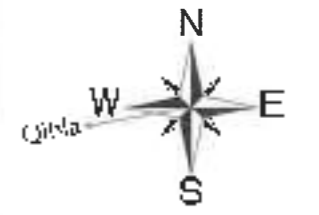
SNGPL-MUL-DMIS-C-06



RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"

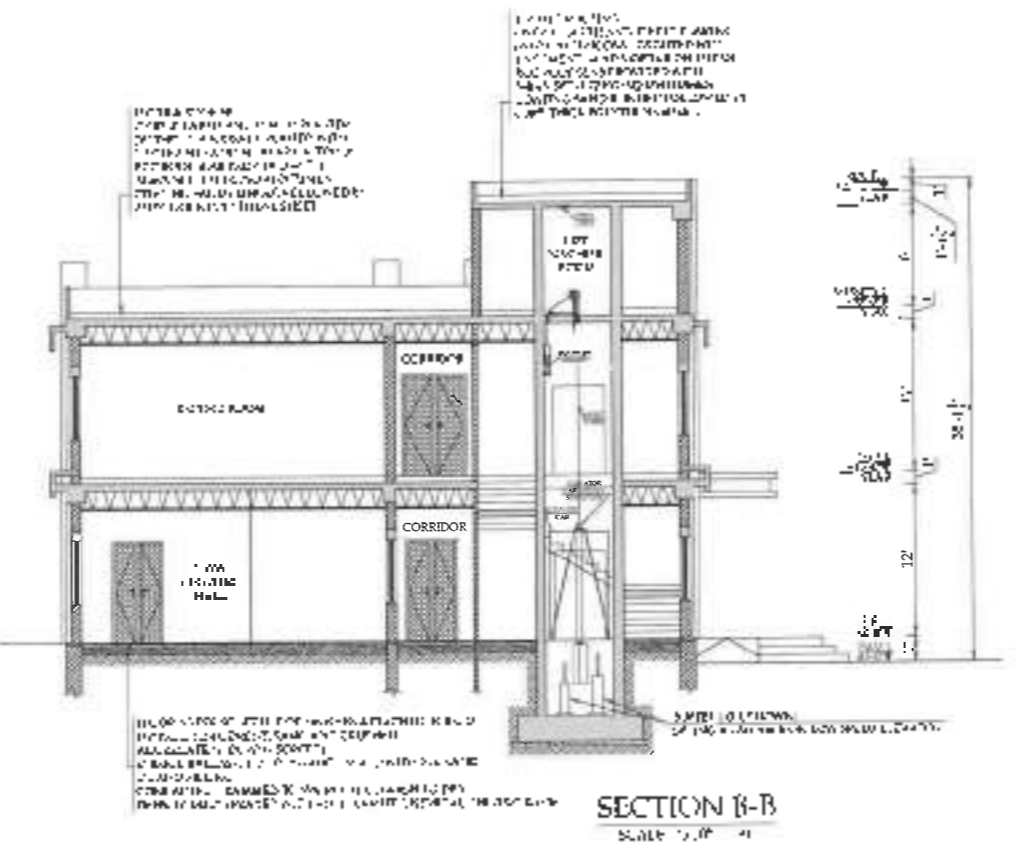
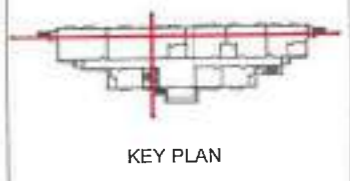
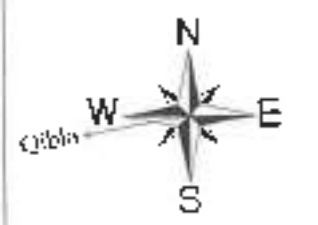
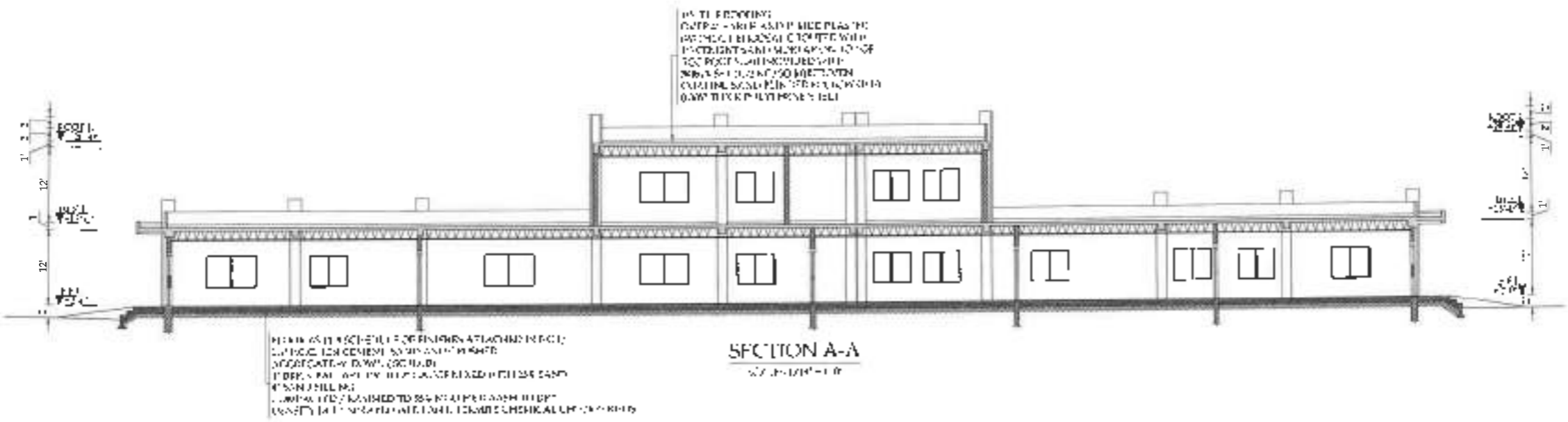


LEFT SIDE ELEVATION
RIGHT SIDE ELEVATION
KEY PLAN

SYDPL MULTAN	
RIGHT & LEFT SIDE ELEVATION	
DATE	SCALE
PROJECT	CLIENT
DESIGNER	CHECKED
APPROVED	DATE
DOMESTIC MECHANICAL INSPECTION SHOP AT MULTAN	
CLIENT:	



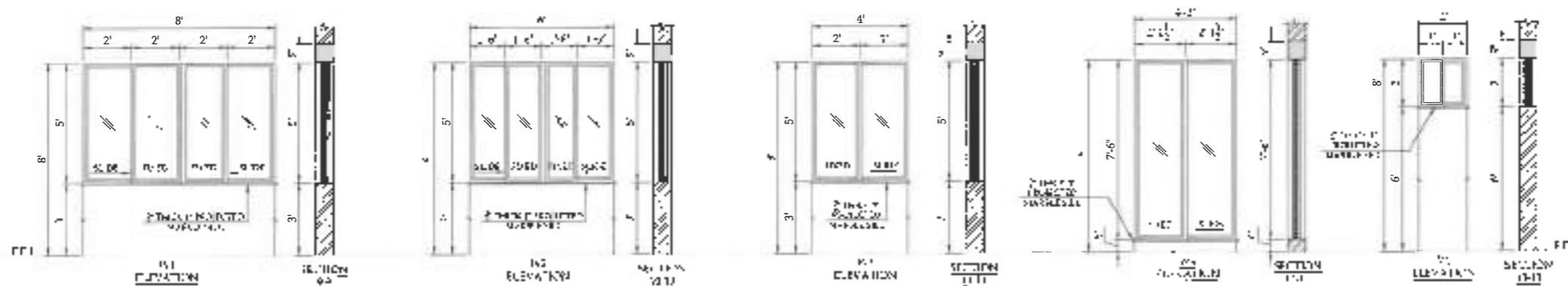
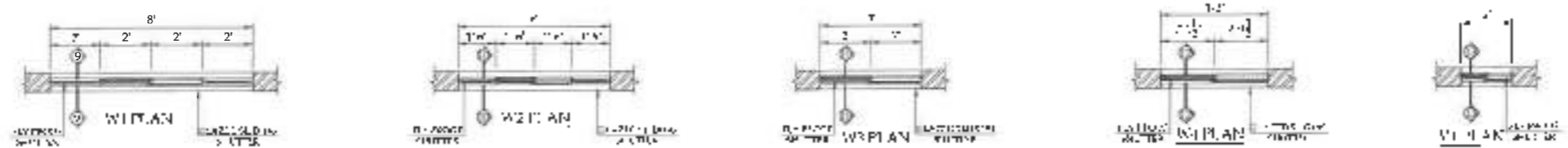
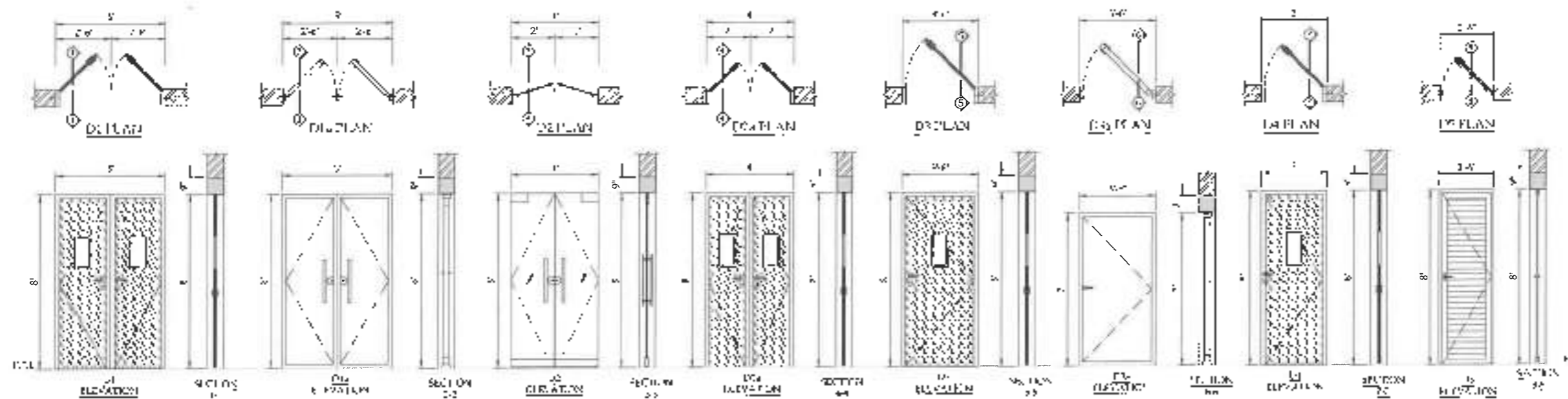
SYDPL-MULT-DOMIS-C-03



ENGR. MUI TAN		SECTION A-A & B-B	
NO.	REV.	DATE	BY
1			
PROJECT NO.		SHEET NO.	TOTAL SHEETS
ENCPL-MUL-UM 5-4-09		20	20
CLIENT:			
DOMESTIC WATER INSPECTION SHOP AT MIT TAN			
CONSULTANT:			
ASHT CONSULTING ENGINEERS (PVT) LTD. LAHORE			



ENCPL-MUL-UM 5-4-09



DOORS SCHEDULE

Sl. No.	TYPE	SIZE	HT.	QTY	DESCRIPTION
1	D1	2'0" x 7'0"	0'0"	02	FRAMELESS DOOR PARTIALLY GLAZED WITH PARTIALLY GLAZED PANELS
2	D2	2'0" x 7'0"	0'0"	02	DOOR WITH ALUMINIUM PROFILE DOOR WITH PARTIALLY GLAZED
3	D3	2'0" x 7'0"	0'0"	04	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
4	D4	2'0" x 7'0"	0'0"	01	DOOR SCHEDULE 04 PARTIALLY GLAZED & PARTIALLY GLAZED DOOR
5	D5	2'0" x 7'0"	0'0"	02	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
6	D6	2'0" x 7'0"	0'0"	02	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
7	D7	2'0" x 7'0"	0'0"	01	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
8	D8	2'0" x 7'0"	0'0"	02	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION

WINDOWS SCHEDULE

Sl. No.	TYPE	SIZE	HT.	QTY	DESCRIPTION
1	W1	4'0" x 7'0"	7'0"	06	ALUMINIUM WINDOW WITH SINGLE GLAZING WITH 10MM INSULATION WITH SECTION
2	W2	4'0" x 7'0"	7'0"	01	ALUMINIUM WINDOW WITH SINGLE GLAZING WITH 10MM INSULATION WITH SECTION
3	W3	4'0" x 7'0"	7'0"	02	ALUMINIUM WINDOW WITH SINGLE GLAZING WITH 10MM INSULATION WITH SECTION
4	W4	4'0" x 7'0"	7'0"	02	ALUMINIUM WINDOW WITH SINGLE GLAZING WITH 10MM INSULATION WITH SECTION
5	W5	4'0" x 7'0"	7'0"	02	ALUMINIUM WINDOW WITH SINGLE GLAZING WITH 10MM INSULATION WITH SECTION
6	W6	4'0" x 7'0"	7'0"	02	ALUMINIUM WINDOW WITH SINGLE GLAZING WITH 10MM INSULATION WITH SECTION

SNGPL MUL-DMS-C-10



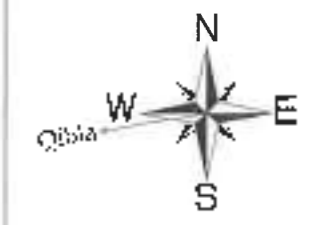
DOORS, WINDOWS ELEVATION & SCHEDULE

Sl. No.	TYPE	SIZE	HT.	QTY	DESCRIPTION
1	D1	2'0" x 7'0"	0'0"	02	FRAMELESS DOOR PARTIALLY GLAZED WITH PARTIALLY GLAZED PANELS
2	D2	2'0" x 7'0"	0'0"	02	DOOR WITH ALUMINIUM PROFILE DOOR WITH PARTIALLY GLAZED
3	D3	2'0" x 7'0"	0'0"	04	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
4	D4	2'0" x 7'0"	0'0"	01	DOOR SCHEDULE 04 PARTIALLY GLAZED & PARTIALLY GLAZED DOOR
5	D5	2'0" x 7'0"	0'0"	02	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
6	D6	2'0" x 7'0"	0'0"	02	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
7	D7	2'0" x 7'0"	0'0"	01	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION
8	D8	2'0" x 7'0"	0'0"	02	DOOR WITH THERMO GLASS WITH 10MM INSULATION WITH SECTION

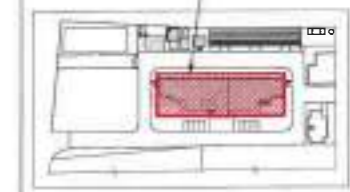
DOMESTIC WATER INSPECTION SHOP AT MI TUN



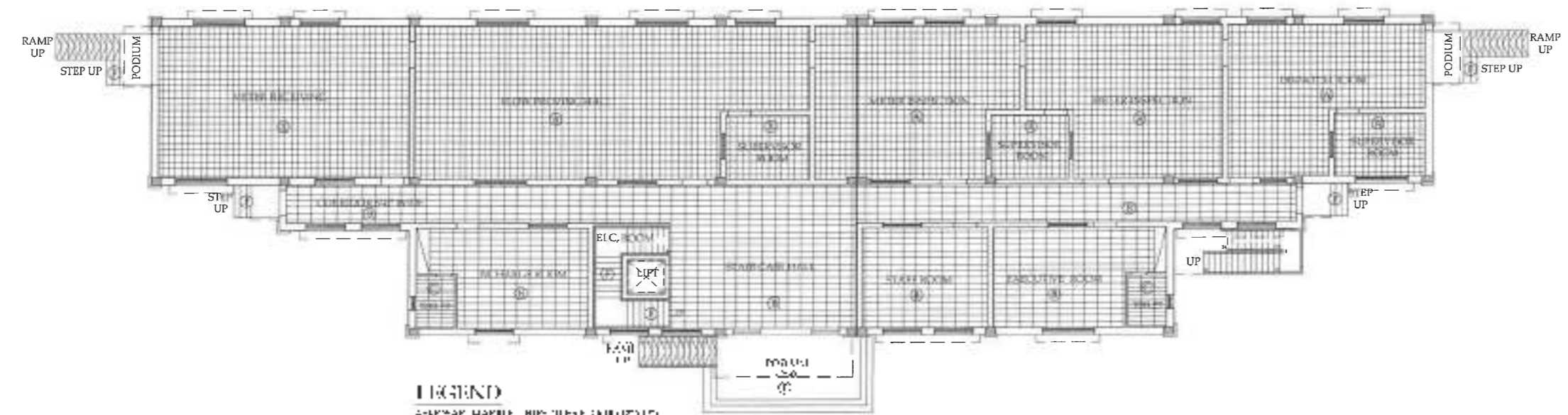
SNGPL MUL-DMS-C-10



DMIS BUILDING



KEY PLAN



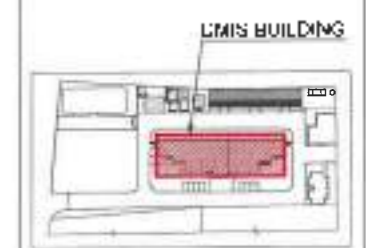
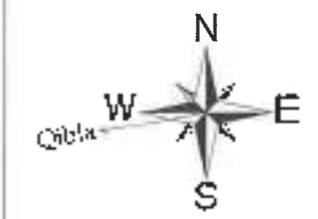
- LEGEND**
- 2-40000 MARBLE (MIP) (200x200) (250x250)
 - 2-40000 MARBLE (MIP) (200x200) (250x250)
 - 2-40000 MARBLE (MIP) (200x200) (250x250)
 - 2-40000 MARBLE (MIP) (200x200) (250x250)
 - 2-40000 MARBLE (MIP) (200x200) (250x250)
 - 2-40000 MARBLE (MIP) (200x200) (250x250)

FLOORING PATTERN GROUND FLOOR PLAN
SCALE: 1/20

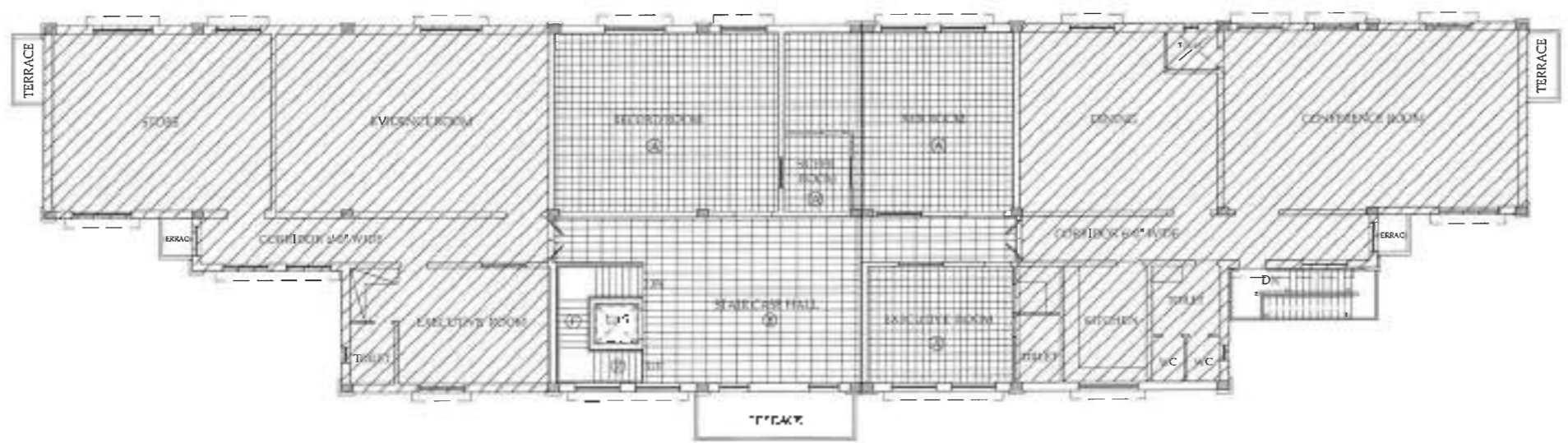
SNCPI MULTAN			
FLOORING PATTERN GROUND FLOOR PLAN			
NO.	REV.	DATE	BY
SNCPI-MUL-DMIS-C-11		1/20	1/20
DOMESTIC WATER INSPECTION SHOW AT MULTAN			
CLIENT:			
			
			



SNCPI-MUL-DMIS-C-11



KEY PLAN



- LEGEND**
- 1- 20MM GRAPHS PAPER
 - 2- 20MM GRAPHIC BOARD
 - 3- 20MM GRAPHIC BOARD
 - 4- 20MM GRAPHIC BOARD
 - 5- 20MM GRAPHIC BOARD
 - 6- 20MM GRAPHIC BOARD
 - 7- 20MM GRAPHIC BOARD
 - 8- 20MM GRAPHIC BOARD

FLOORING PATTERN FIRST FLOOR PLAN
SCALE: 1/100

INSPECTION PLAN

FLOORING PATTERN FIRST FLOOR PLAN

NO.	DATE	BY	REMARKS

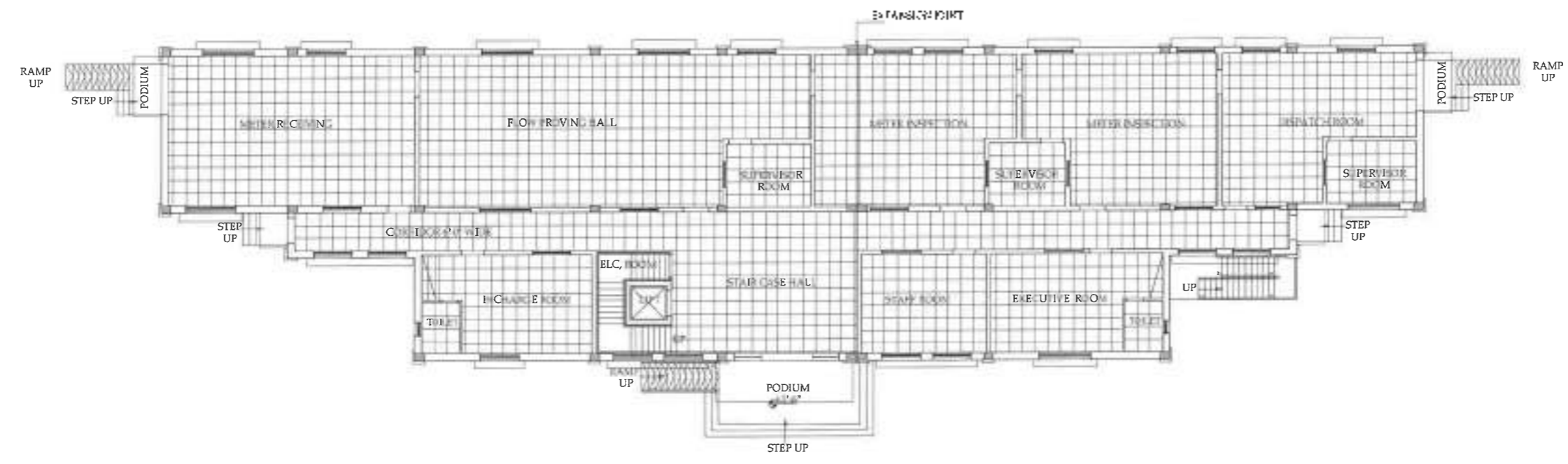
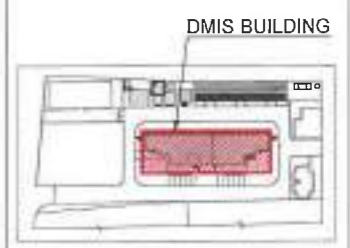
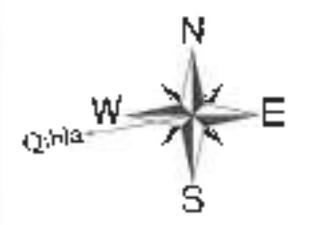
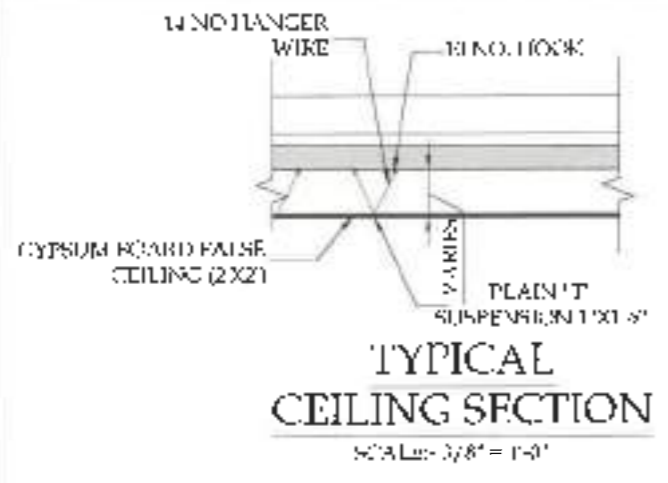
PROJECT: **DOMS HOTEL INSPECTION REPORT**

CLIENT:

DATE: 11/11/2011



S:\SPL-MUL-DM 3-C-12

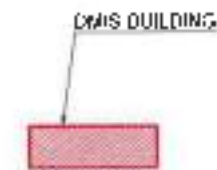
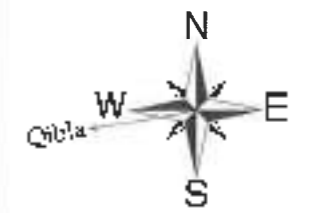
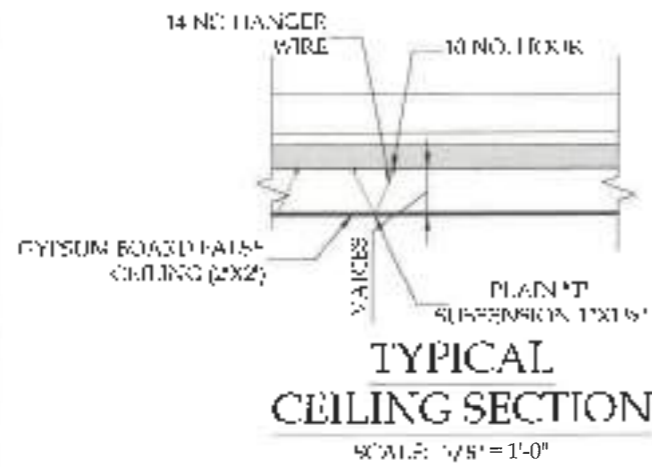


CEILING GROUND FLOOR PLAN
SCALE: 1/16" = 1'-0"

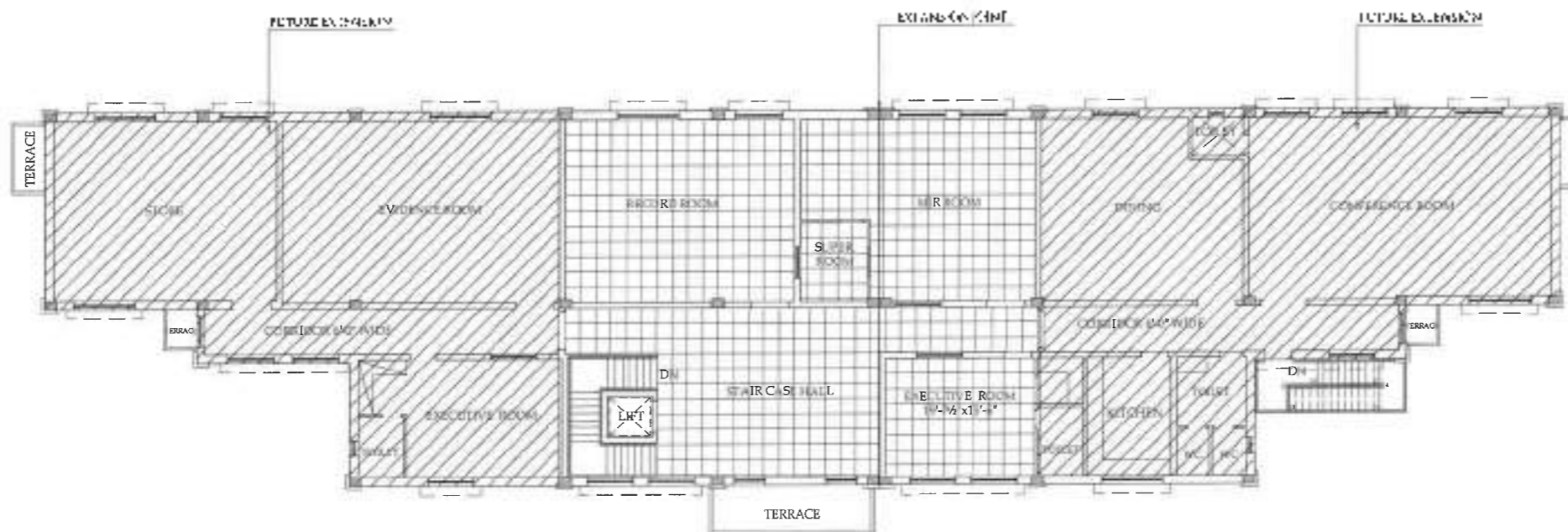
SNGPL MULTAN			
CEILING GROUND FLOOR PLAN			
DATE	NO.	REV.	BY
SNGPL-MUL-DM S-C-14		SHEET	104
PROJECT			
DOMESTIC METER INSPECTION ANILUAS MULHAN			
CLIENT			



SNGPL-MUL-DM S-C-14



KEY PLAN

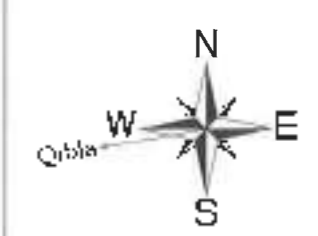


CEILING FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

SY: IPI MIT 124			
CEILING FIRST FLOOR PLAN			
DATE	SCALE	NO.	REV.
15/05/2015	1/16" = 1'-0"	01	01
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
M. A. HANF	M. A. HANF	M. A. HANF	M. A. HANF
PROJECT NO:		DATE:	BY:
S/3/PL-M.L.L-OMIS-C-15		15/05/2015	M.A.HANF
PROJECT:			
TEAM S/3/0/MEER INSPECTION S/3/0/6/1/M/L/124			
CLIENT:			
FOUNDER:			



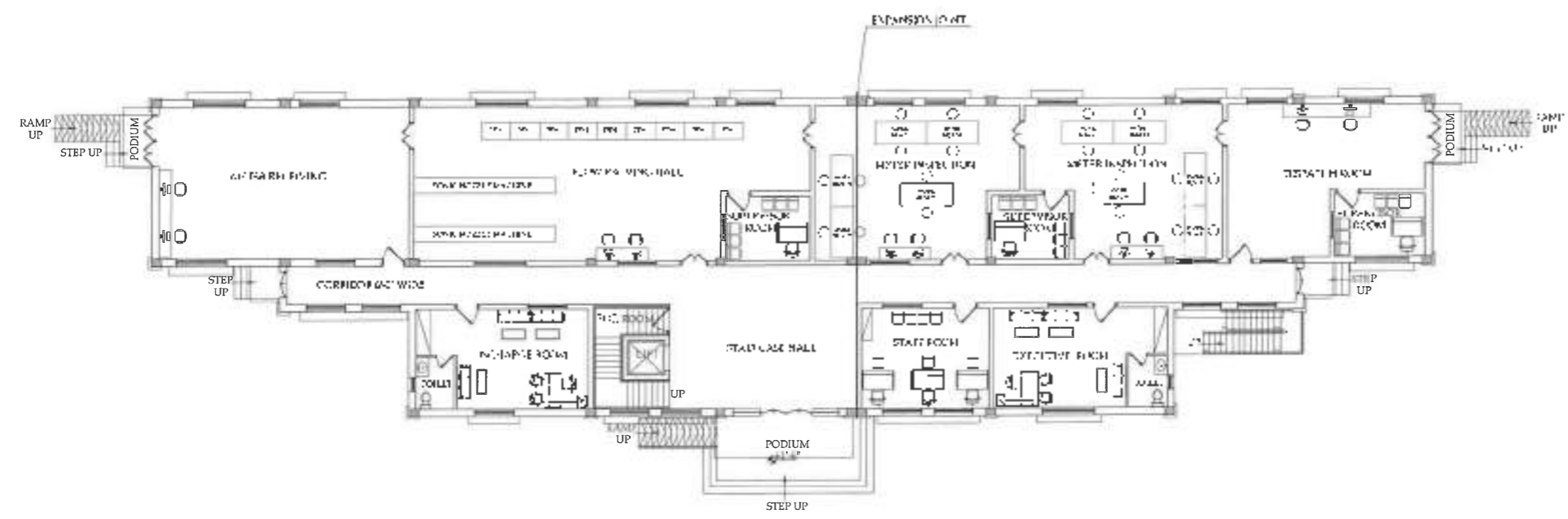
S/3/PL-M.L.L-OMIS-C-15



DMIS BUILDING



KEY PLAN

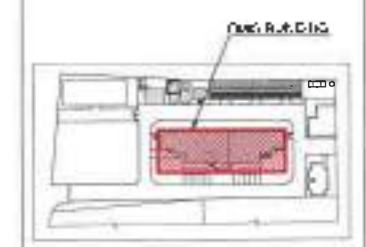


FURNITURE LAYOUT GROUND FLOOR PLAN
SCALE: 1/8"=1'-0"

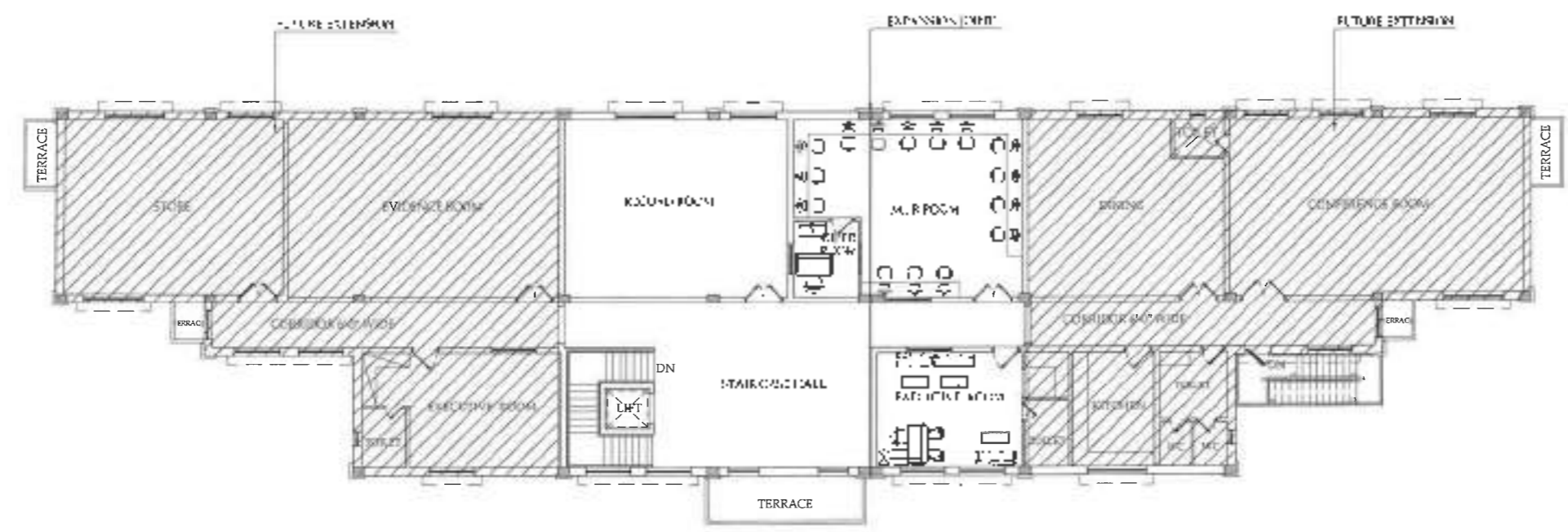
SNGH MUL TAN	
TYPE	
FURNITURE LAYOUT GROUND FLOOR PLAN	
DATE	SCALE
10/11/2017	1/8"=1'-0"
PROJECT NUMBER	PROJECT NAME
DMIS-C-1E	DMIS-C-1E
PROJECT	CLIENT
DMIS-C-1E	DMIS-C-1E



DMIS-C-1E



KEY PLAN

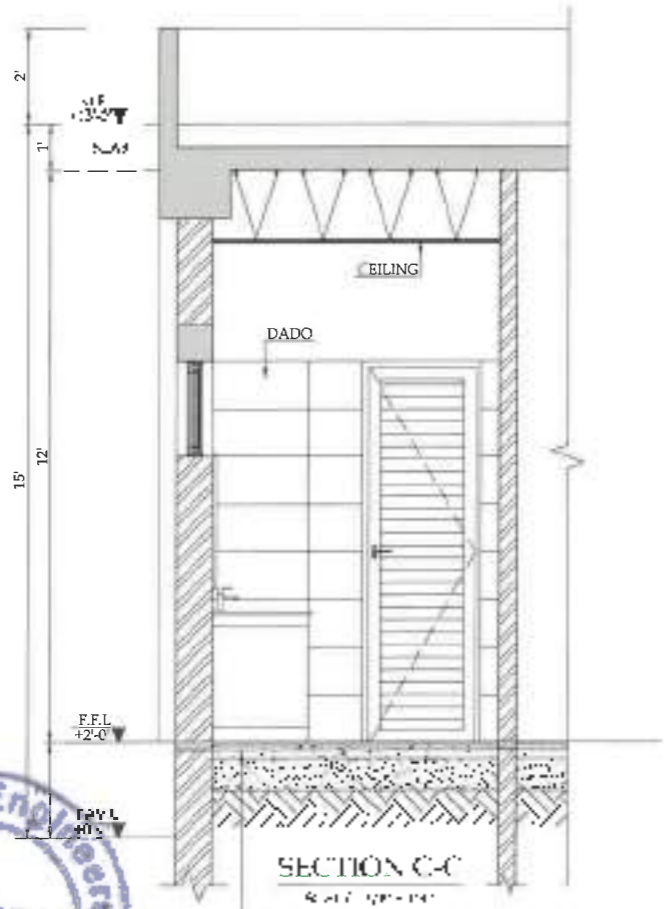
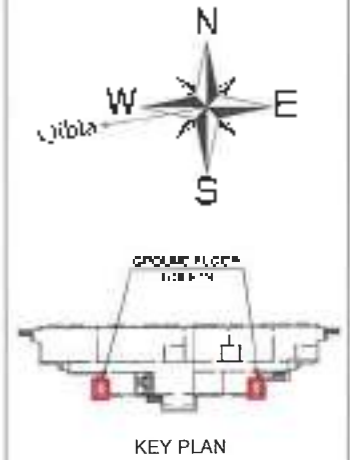
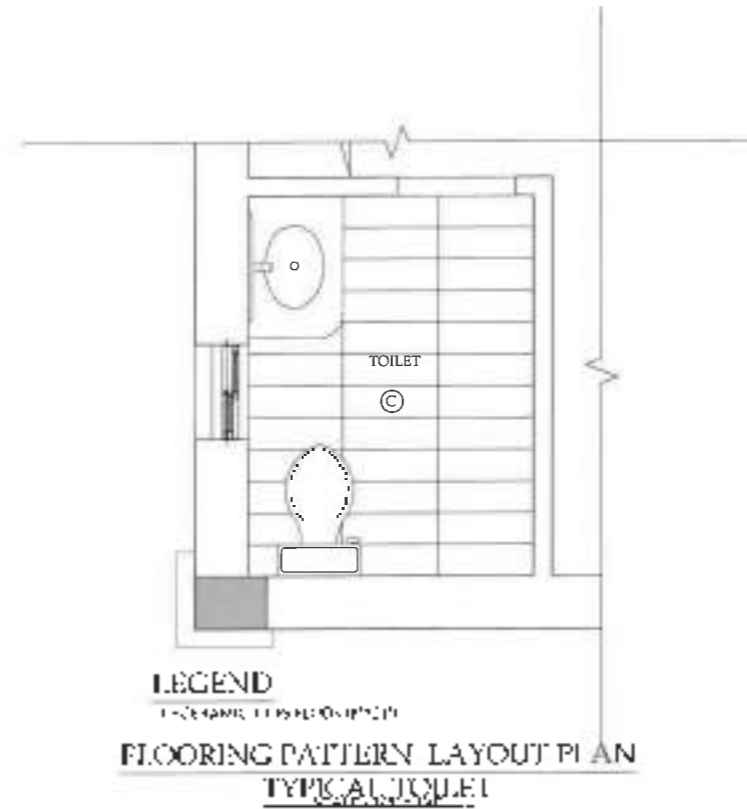
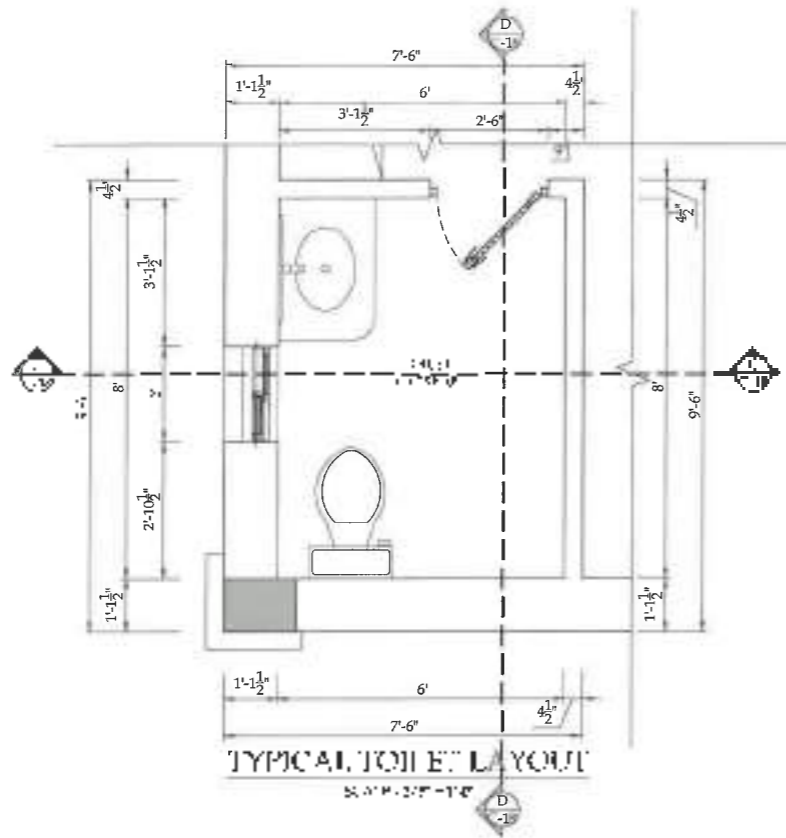


FURNITURE LAYOUT FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

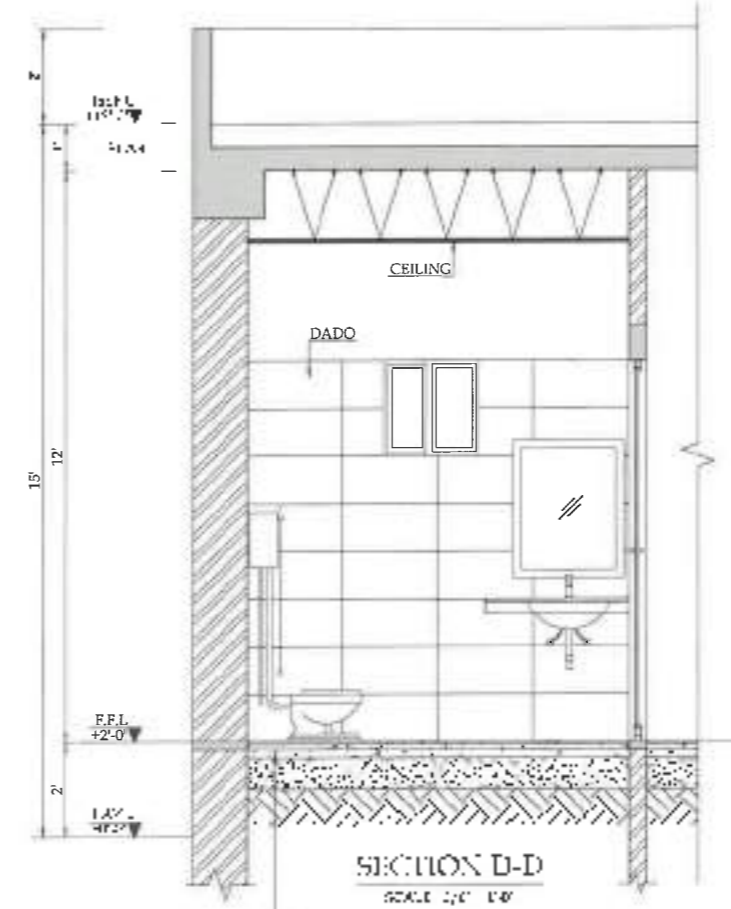
ENGINEERING			
FURNITURE LAYOUT FIRST FLOOR PLAN			
DATE	DATE	DATE	DATE
2014	2014	2014	2014
PROJECT	NO.	REV.	BY
ENQPI-MUL-UMS-C-17	001	1	...
PROJECT			
INSPECTION GROUP AT MULTAN			
CLIENT:			
DRAWN BY:			



ENQPI-MUL-UMS-C-17



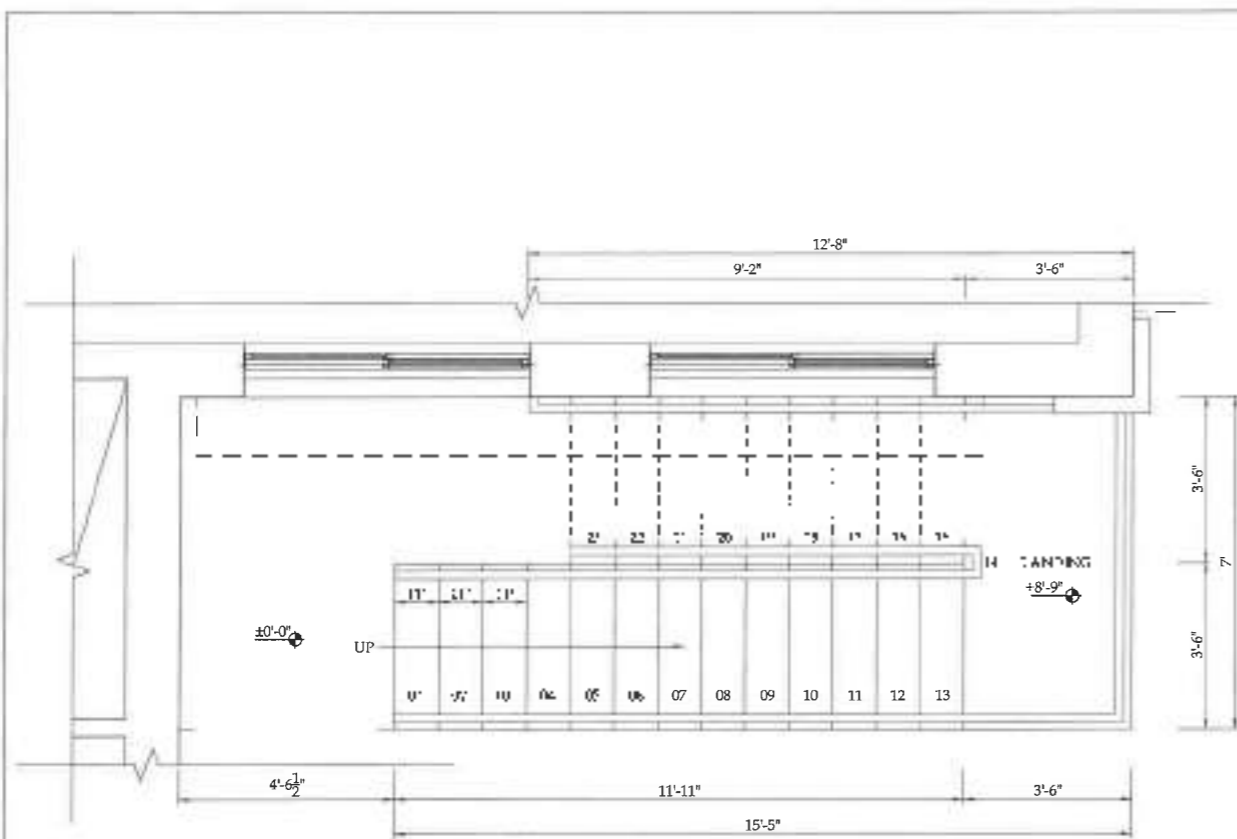
1. 1/2" GYP BOARD & 1/2" PLASTER - 1/2" THICK PLASTER
2. 1/2" G.C. 1:2:4 CEMENT SAND AND CRUSHED
AGGREGATE AT 10% GREASE
3. 1/2" BRICK SLAB 150x150x75mm WITH 25% SAND
4. SAND FILLING
5. 1/2" BRICK RABBITED TOPS 150x150x75mm
6. 1/2" BRICK RABBITED TOPS 150x150x75mm
7. 1/2" BRICK RABBITED TOPS 150x150x75mm
8. 1/2" BRICK RABBITED TOPS 150x150x75mm



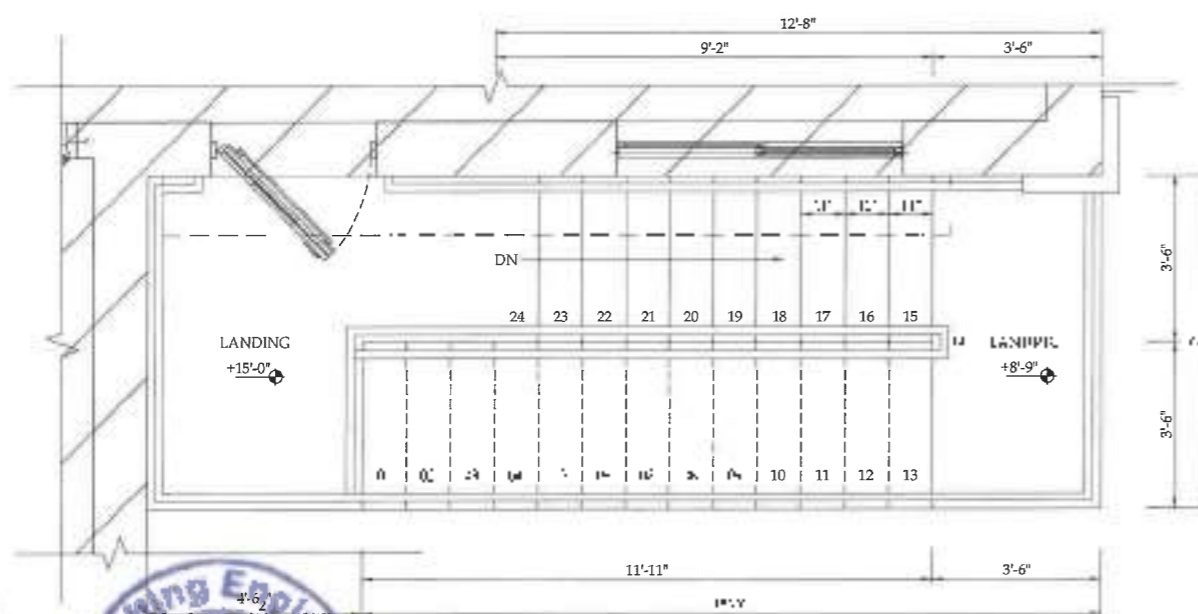
1. 1/2" GYP BOARD & 1/2" PLASTER AT 1/2" THICK PLASTER
2. 1/2" G.C. 1:2:4 CEMENT SAND AND CRUSHED
AGGREGATE AT 10% GREASE
3. 1/2" BRICK SLAB 150x150x75mm WITH 25% SAND
4. SAND FILLING
5. 1/2" BRICK RABBITED TOPS 150x150x75mm
6. 1/2" BRICK RABBITED TOPS 150x150x75mm
7. 1/2" BRICK RABBITED TOPS 150x150x75mm
8. 1/2" BRICK RABBITED TOPS 150x150x75mm



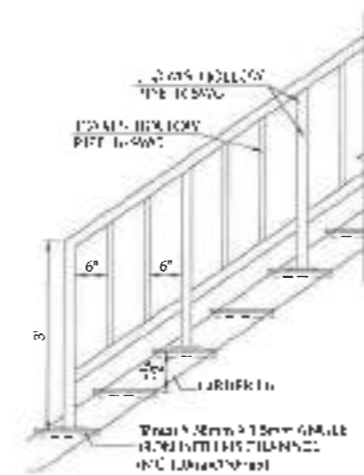
SNGP, MULTAN			
PROJECT: GROUND FLOOR TOILET DETAILS			
DATE: 12/11/2023	SCALE: 1/8" = 1'-0"	SHEET NO: 10	
DESIGNED BY: ASGHAR	CHECKED BY: ASGHAR	DATE: 12/11/2023	SCALE: 1/8" = 1'-0"
DRAWING NO: SNGP-MUL-DMIS-C-18			
PROJECT: DOMESTIC WATER INSPECTION SHOW AT MULTAN			
CLIENT:			
DESIGNER:			



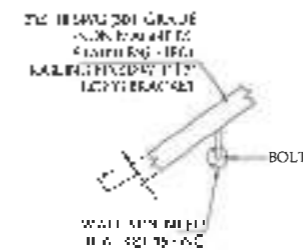
EMERGENCY STAIR DETAIL
SCALE: 1/8" = 1'-0"



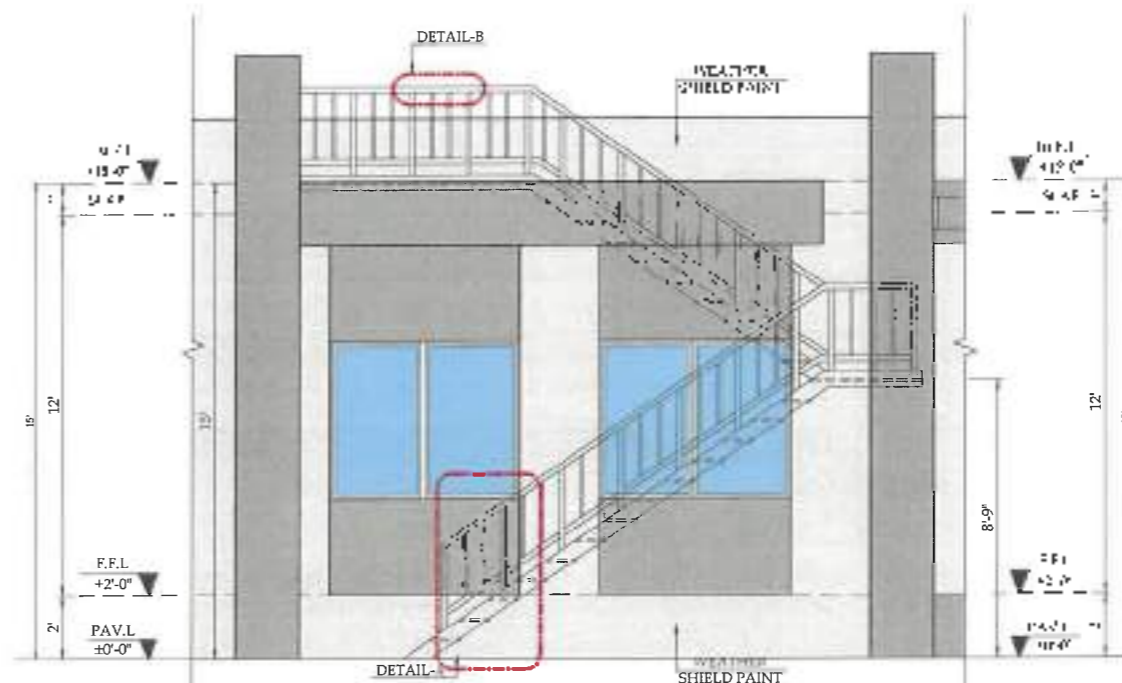
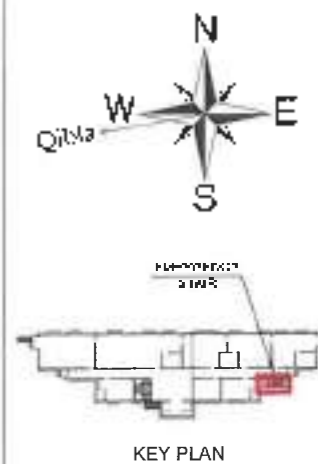
EMERGENCY STAIR DETAIL
SCALE: 1/8" = 1'-0"



DETAIL-A
SCALE: 1/2" = 1'-0"



DETAIL-B
SCALE: 1" = 1'-0"



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

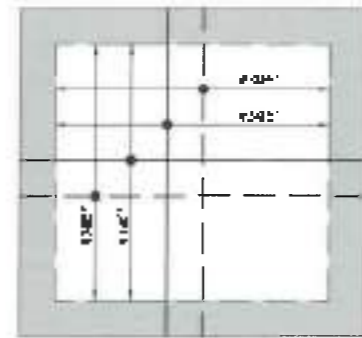
SWSPL-MUL-DWPS-C-10



SWSPL-MUL-DWPS-C-10	
EMERGENCY STAIR DETAILS	
DATE	10/10/2023
SCALE	AS SHOWN
PROJECT	SWSPL-MUL-DWPS-C-10
CLIENT	DOMESTIC WATER INSPECTION SHED AT MILLARI

Structure





LIFT MACHINE ROOM
 BOTTOM SLAB - 8" THICK
 SCALE: 1/8" = 1'-0"



LIFT MACHINE ROOM
 TOP SLAB - 6" THICK
 SCALE: 1/8" = 1'-0"

SPECIAL NOTES:-

1. ALL DIMENSIONS AND LEVELS ARE IN FEET UNLESS OTHERWISE SPECIFIED.
2. USE CONCRETE HAVING 3000 PSI CYLINDRICAL STRENGTH FOR ALL STRUCTURAL MEMBERS.
3. USE DEFORMED STEEL HAVING MINIMUM YIELD STRENGTH OF 60000 PSI AS PER ASTM 601.

SWS/PLM/LUL-DMIS-5-21



SWS/PLM/LUL			
LIFT MACHINE ROOM SLAB REINFORCEMENT PLAN & PARAPET DETAIL			
NO.	REV.	DATE	BY
PROJECT			
DIPRO SITE MILLER INSPECTION 5-OP AT MULTAN			
CLIENT			
CONSULTANT			

Electrical



" LIGHTS "					
NO.	SYMBOL	DESCRIPTION	TYPE / DETAIL / SPEC.	HEIGHT	NOTE
01		WALL BRACKET LIGHT WITH SWITCH	100W / 230V	> 2000mm	> 1.80
02		WALL BRACKET LIGHT WITH SWITCH, LED	100W / 230V	> 2000mm	> 1.80
03		LED DOWN LIGHT WITH SWITCH	20W / 230V	> 2000mm	> 1.80
04		LED PANEL LIGHT WITH SWITCH	30W / 230V	> 2000mm	> 1.80
05		LED PANEL LIGHT WITH SWITCH, BATTERY OPERATED	30W / 230V	> 2000mm	> 1.80
06		LED PANEL LIGHT WITH SWITCH, BATTERY OPERATED, 12V	30W / 12V	> 2000mm	> 1.80
07		LED PANEL LIGHT WITH SWITCH, BATTERY OPERATED, 12V, 1000mm	30W / 12V	> 2000mm	> 1.80
08		LED PANEL LIGHT WITH SWITCH, BATTERY OPERATED, 12V, 1000mm, 1000mm	30W / 12V	> 2000mm	> 1.80
09		LED PANEL LIGHT WITH SWITCH, BATTERY OPERATED, 12V, 1000mm, 1000mm, 1000mm	30W / 12V	> 2000mm	> 1.80
10		LED PANEL LIGHT WITH SWITCH, BATTERY OPERATED, 12V, 1000mm, 1000mm, 1000mm, 1000mm	30W / 12V	> 2000mm	> 1.80

" SWITCH GEAR "			
NO.	SYMBOL	DESCRIPTION	TYPE
01		1-WAY SWITCH	1-WAY SWITCH
02		2-WAY SWITCH	2-WAY SWITCH
03		3-WAY SWITCH	3-WAY SWITCH

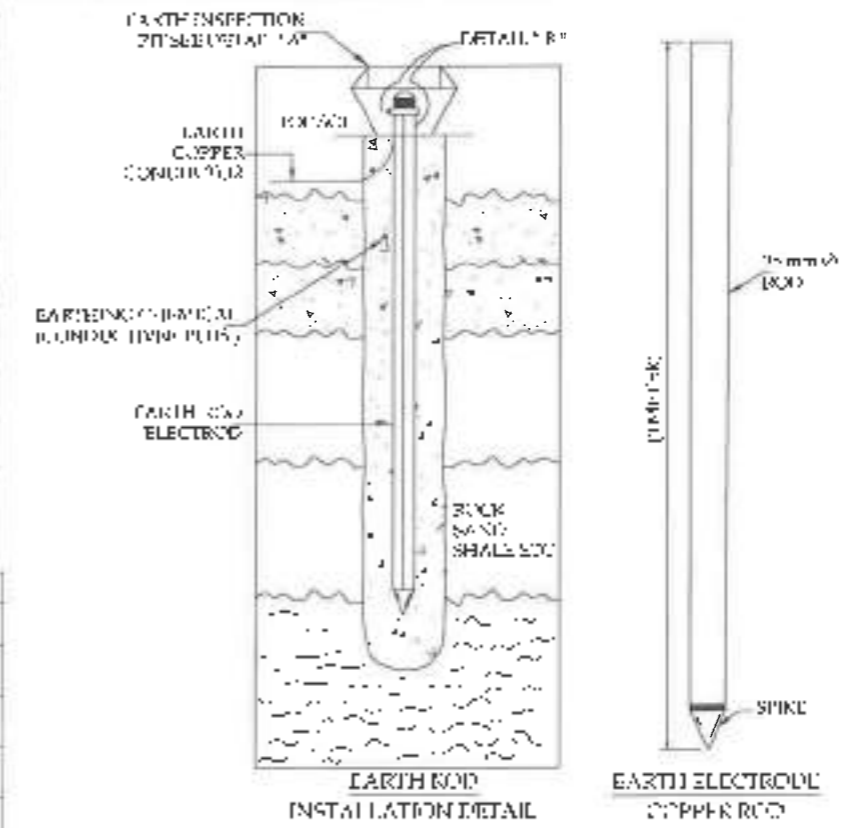
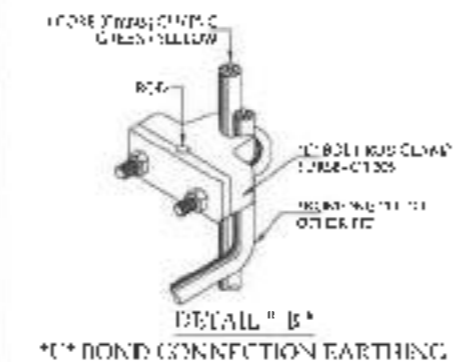
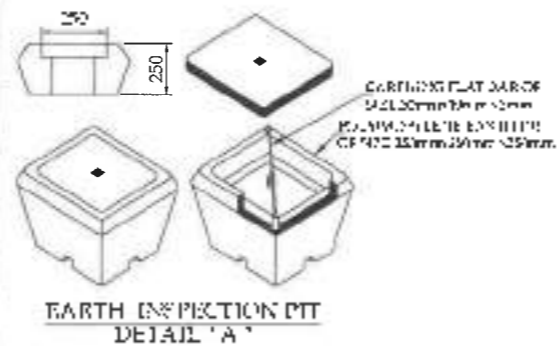
" FANS "			
NO.	SYMBOL	DESCRIPTION	TYPE
01		CEILING FAN	CEILING FAN
02		EXHAUST FAN	EXHAUST FAN

" POWER SYSTEM "			
NO.	SYMBOL	DESCRIPTION	HEIGHT
01		MAIN SWITCH	1.80 ABOVE FFL
02		DISTRIBUTION BOARD	1.80 ABOVE FFL
03		METER	1.80 ABOVE FFL
04		FUSE	1.80 ABOVE FFL
05		SWITCH	1.80 ABOVE FFL
06		INDICATOR LIGHT	1.80 ABOVE FFL
07		ALARM BELL	1.80 ABOVE FFL
08		FIRE ALARM BELL	1.80 ABOVE FFL

" TELEPHONE TELEPHONE & DATA "			
NO.	SYMBOL	DESCRIPTION	HEIGHT
01		TELEPHONE	1.40 ABOVE FFL
02		DATA POINT	1.40 ABOVE FFL
03		DATA SWITCH	---
04		FIRE ALARM BELL	---

" CCTV SYSTEM "			
NO.	SYMBOL	DESCRIPTION	HEIGHT
01		CAMERA	2.00 ABOVE FFL
02		MONITOR	1.40 ABOVE FFL
03		VCR	1.40 ABOVE FFL
04		VCR WITH TAPE	1.40 ABOVE FFL

" FIRE ALARM SYSTEM "			
NO.	SYMBOL	DESCRIPTION	HEIGHT
01		FIRE ALARM BELL	2.00 ABOVE FFL
02		FIRE ALARM BELL WITH SIREN	2.00 ABOVE FFL
03		FIRE ALARM BELL WITH SIREN AND LIGHT	2.00 ABOVE FFL
04		FIRE ALARM BELL WITH SIREN AND LIGHT, 1000mm	2.00 ABOVE FFL



GENERAL NOTES:-

- ELECTRICAL WORKS**
ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL ELECTRICAL REGULATIONS (NER).
- ELECTRICAL CONDUITING**
ALL WIRING SHALL BE DONE IN PVC CONDUIT OF APPROPRIATE SIZE AND SHALL BE CONCEALED IN WALLS OR CEILING SLABS. CONDUITS SHALL BE SUPPORTED BY PLASTIC BUSHES.
- ELECTRICAL WIRING**
WIRING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
- PVC CONDUITS**
PVC CONDUITS SHALL BE OF APPROPRIATE SIZE AND SHALL BE SUPPORTED BY PLASTIC BUSHES.
- COLOUR CODING**
WIRING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
- EARTHING OF POINTS**
ALL ELECTRICAL POINTS SHALL BE EARTHED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
- CAPACITY OF CONDUITS**
THE NUMBER OF WIRES IN A CONDUIT SHALL NOT EXCEED THE CAPACITY OF THE CONDUIT.
- OTHER SYSTEMS**
ALL OTHER SYSTEMS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
- ELECTRICAL CONSULTANT**
ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
- PERMITTING**
ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).

NOTES FOR EARTHING SYSTEM

1. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
2. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
4. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
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6. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
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8. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
9. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).
10. EARTHING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER) AND THE NATIONAL ELECTRICAL CODE (NEC).

SHOPLISTS

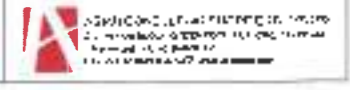
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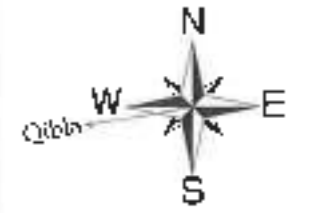
NO.	ITEM	QUANTITY	UNIT
1
2

OWNER'S METER INSPECTION SIGNATURE:

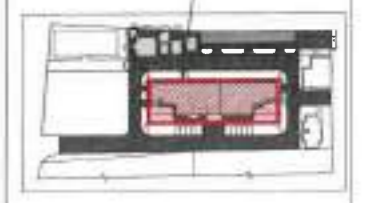
CLIENT:

CONTRACT:

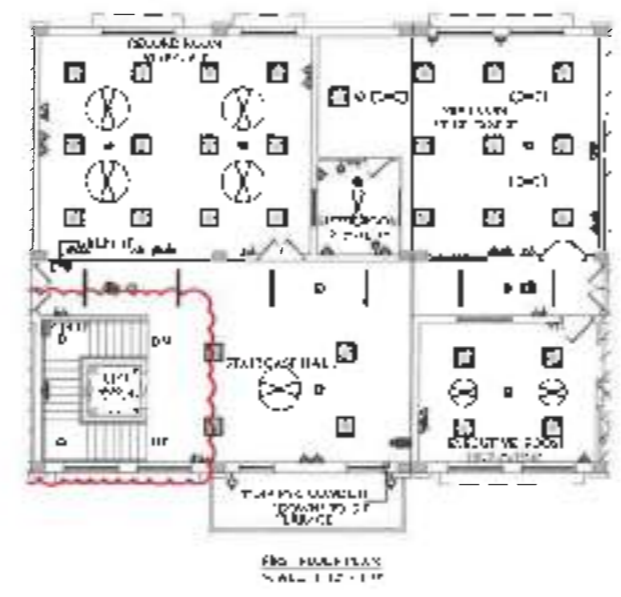




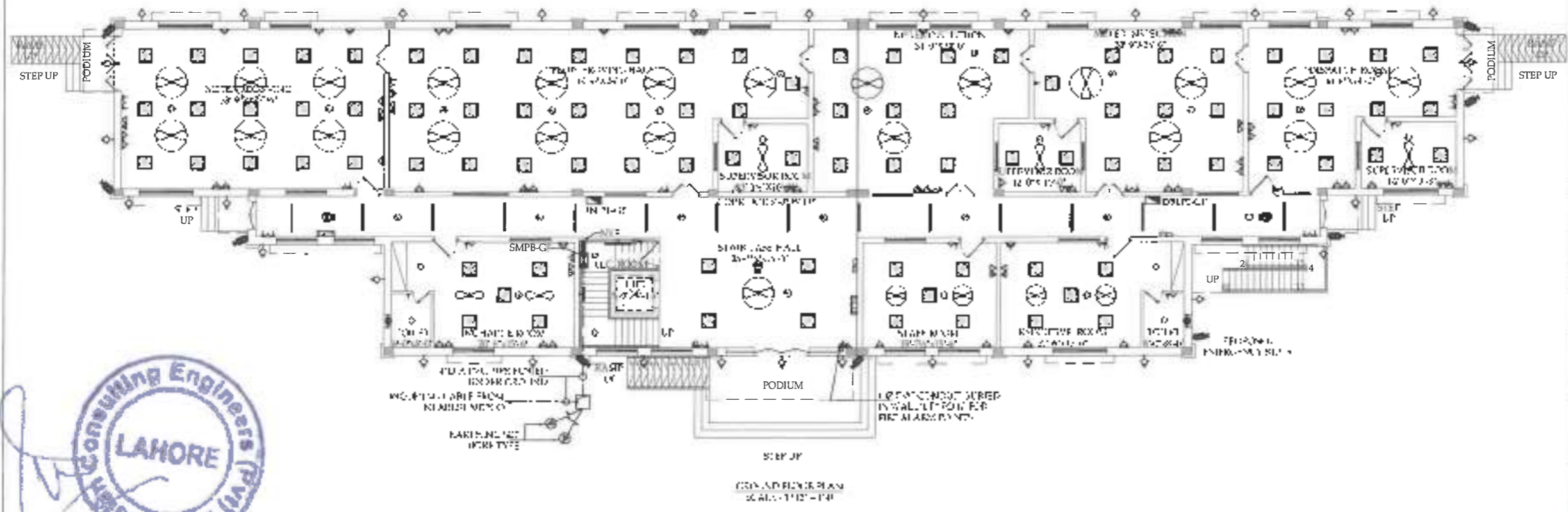
DMIS BUILDING



KEY PLAN



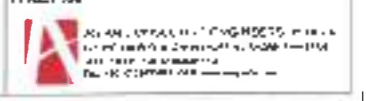
2ND FLOOR
SCALE: 1:125

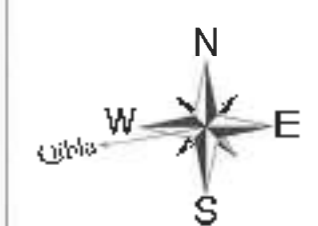


GROUND FLOOR
SCALE: 1:125

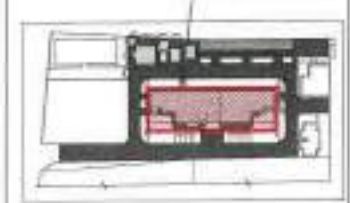


GENERAL PLAN			
CO-ORDINATION LAYOUT PLAN GROUND & FIRST FLOOR PLAN AS BUILT			
Scale	1:125	1:125	1:125
Drawn by	MR. A. H. KHAN	MR. A. H. KHAN	MR. A. H. KHAN
Checked by	MR. A. H. KHAN	MR. A. H. KHAN	MR. A. H. KHAN
Project No.	ASCP/ML/DMIS-02	1/20	1/20
Phase	DOMESTIC METER INSTALLATION SHOP AT MJTAN		
Client	[Redacted]		
Prepared by	[Redacted]		

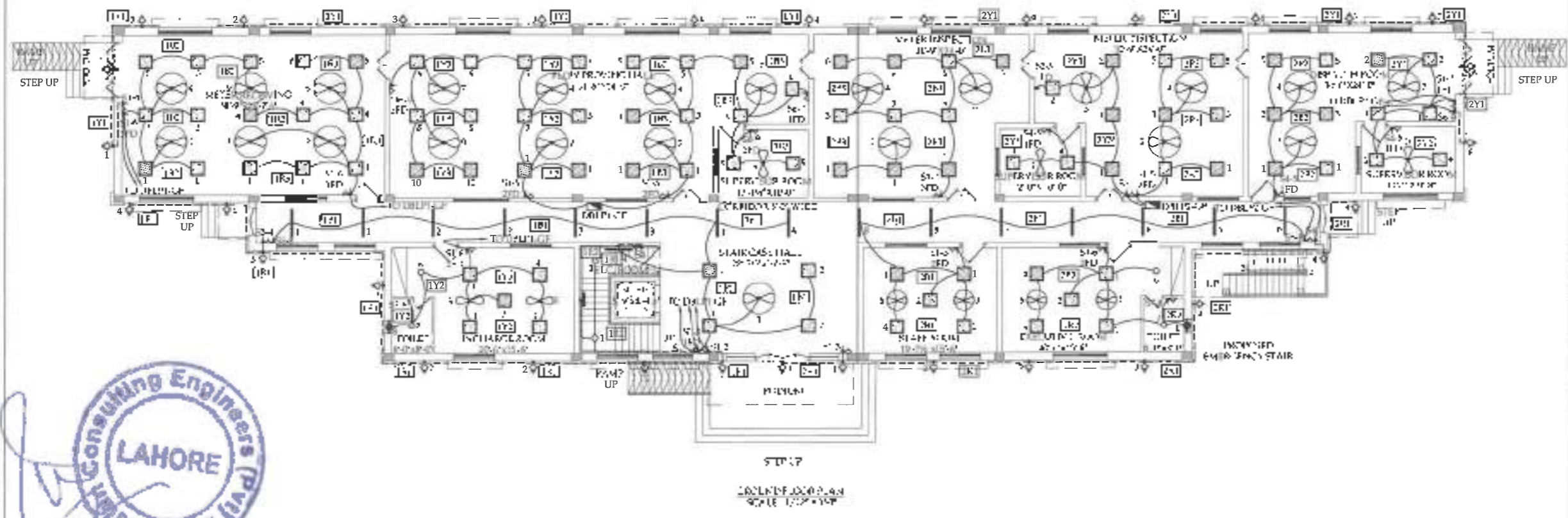




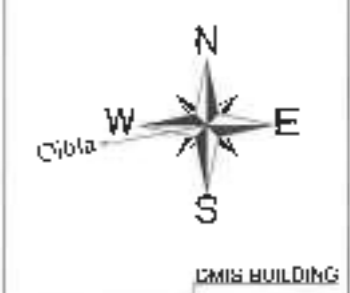
DMIS BUILDING



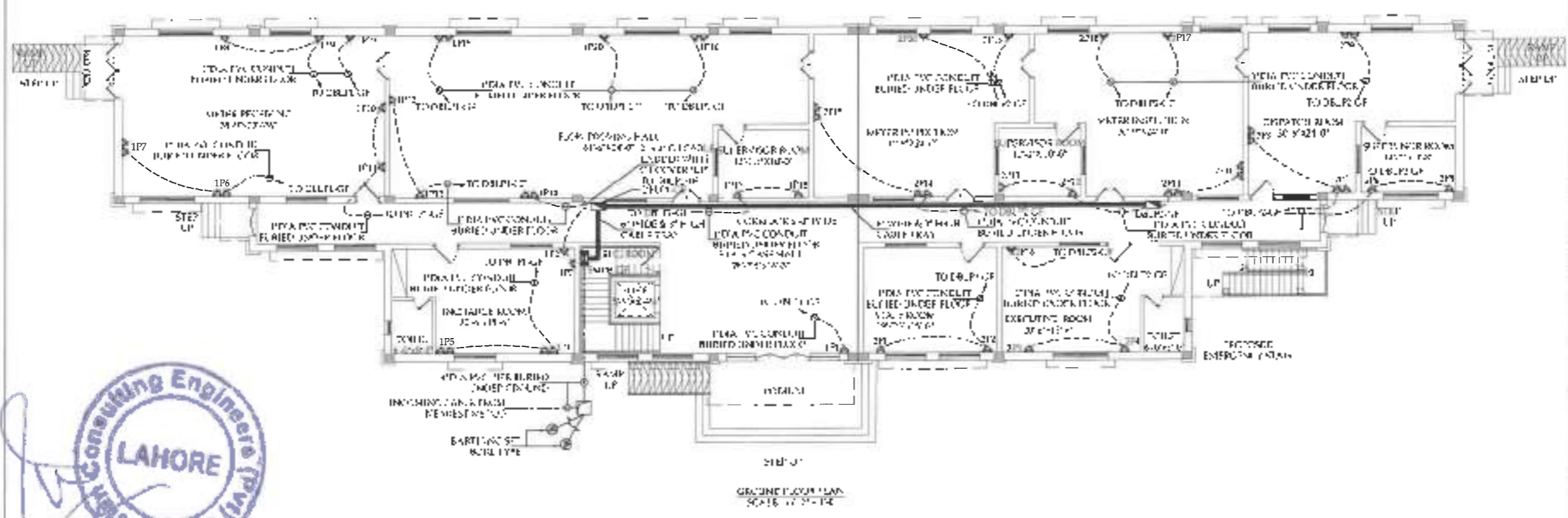
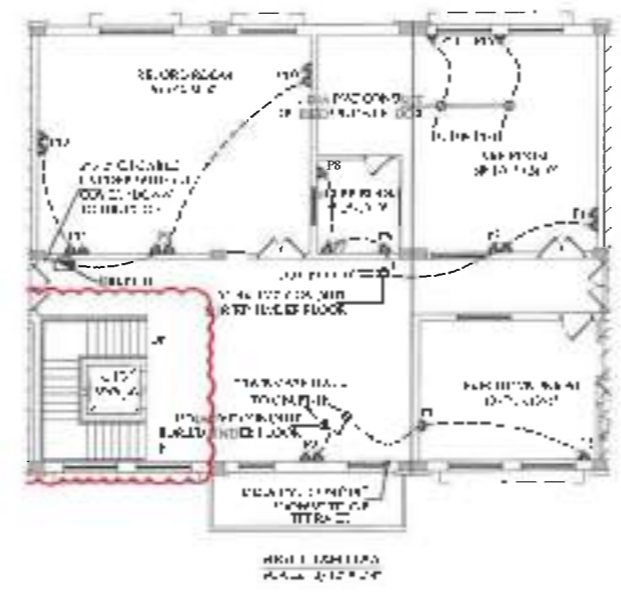
KEY PLAN





SHEET NO. 01		REV. NO.	
TITLE: LIGHTING LAYOUT PLAN (GALVANIC & FIRST FLOOR PLAN) (AS SHOWN)			
DATE	SCALE	PROJECT	CLIENT
01/01/2024	1:200	RAFTI CONSULTING ENGINEERS (PVT) LTD.	RAFTI CONSULTING ENGINEERS (PVT) LTD.
DRAWN BY: RASOUL MUHAMMAD		CHECKED BY: M. J. RAFTI	DATE: 01/01/2024
PROJECT: OPTIMISTIC MILLER INSPECTION SHOP AT MULTAN			
CLIENT:			
CONTACT:			



KEY PLAN

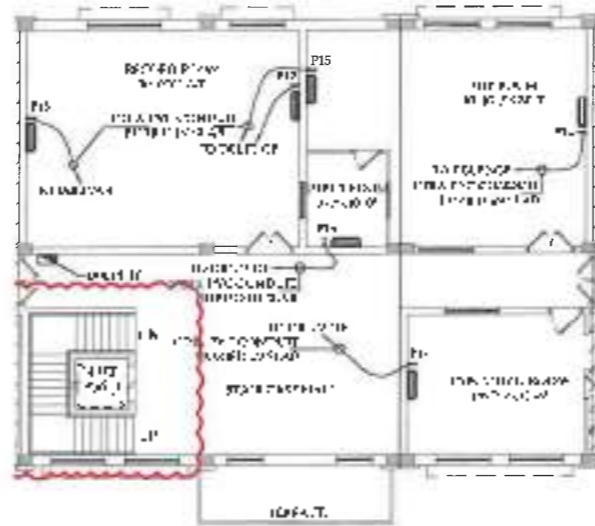


GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

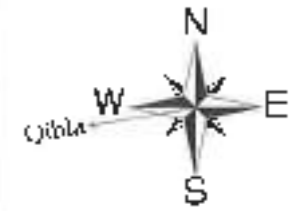
SNGPT MULHAN	
POWER SYSTEM PLAN GROUND & FIRST FLOOR PLAN (AS SHOWN)	
DATE	10/10/2011
BY	ENR. SNGPT MULHAN
CHECKED BY	ENR. SNGPT MULHAN
PROJECT	13116-5740 METER INSPECTION SHOW AT MULHAN
CLIENT	
DESIGNER	



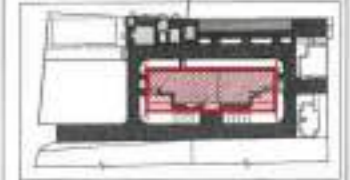
SNGPT-MUL-DM-S-01



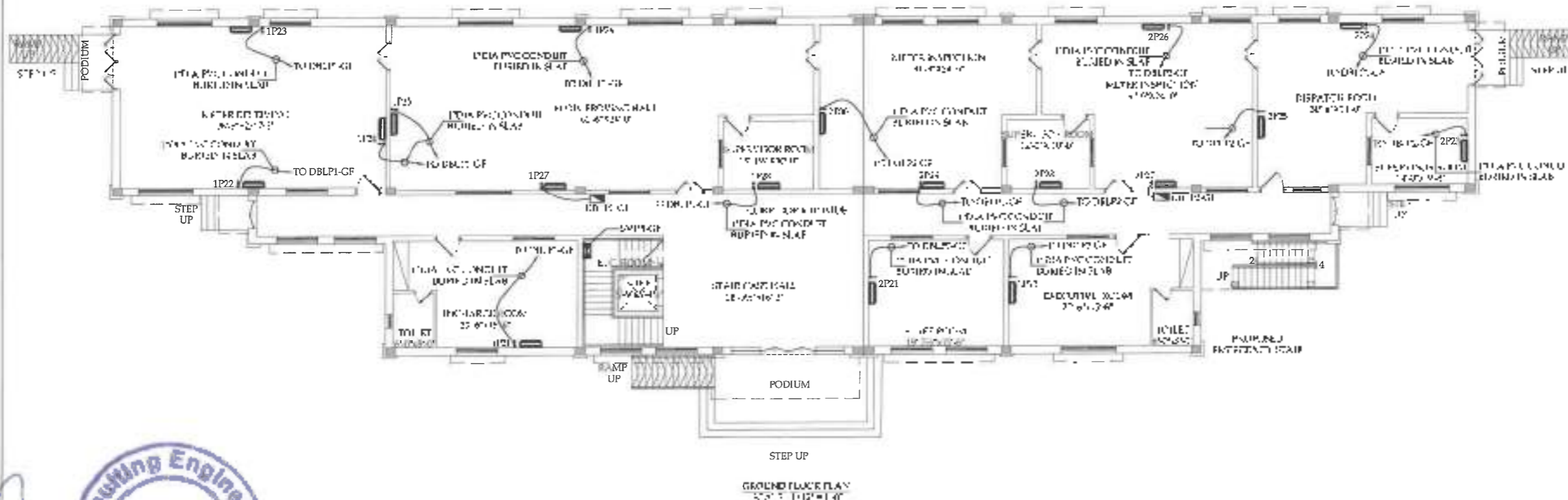
GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"



QWS BUILDING



KEY PLAN

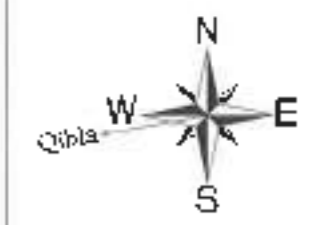


GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

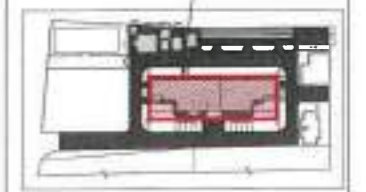
SHEEF MULTAN			
TITLE: AC LAYOUT PLAN FRONT & REAR FLOOR PLAN QWS BLDG			
DATE:	DATE:	DATE:	DATE:
BY:	BY:	BY:	BY:
CHKD:	CHKD:	CHKD:	CHKD:
APPROVED:	APPROVED:	APPROVED:	APPROVED:
DRAWING NO: SNGPI-MHT-001-F-05			
PROJECT: DOMESTIC WATER INSPECTION SHEET AT MULTAN			
CLIENT:			



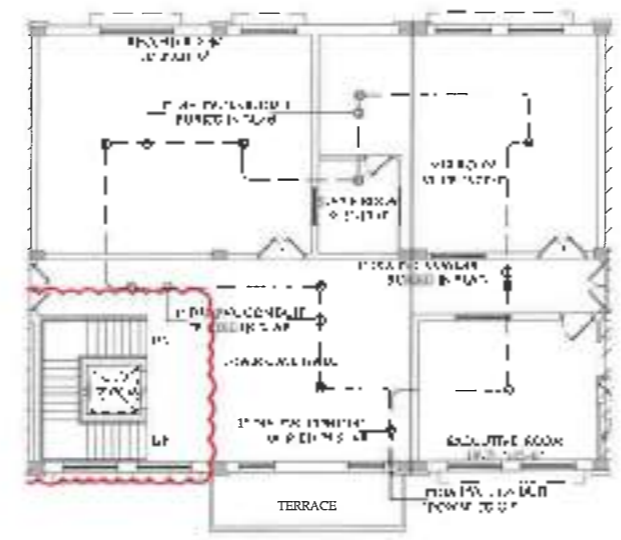
ENR/FA/ML/DAVIS/EC/5



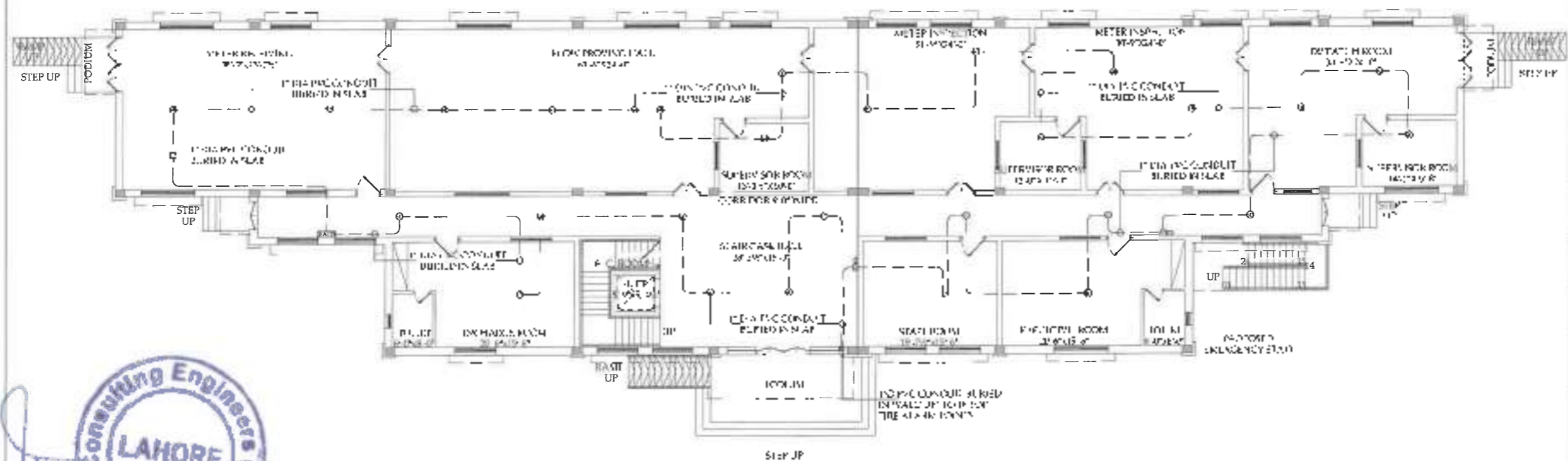
TWO'S BUILDING



KEY PLAN



FIRST FLOOR PLAN
SCALE: 1:100



GROUND FLOOR PLAN
SCALE: 1:100

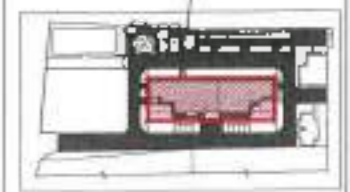
SHRIF MIA PLAN				
FIRE ALARM SYSTEM LAYOUT PLAN				
GROUND & FIRST FLOOR PLAN				
DATE: 10/11/2017				
NO.	REV.	DATE	BY	CHK.
01	1	10/11/2017	SM	SM
DRAWN BY: SM				
PROJECT: DOWNTOWN METER INSPECTION 10/F AT MUTAN				
CLIENT:				
SCALE: 1:100				



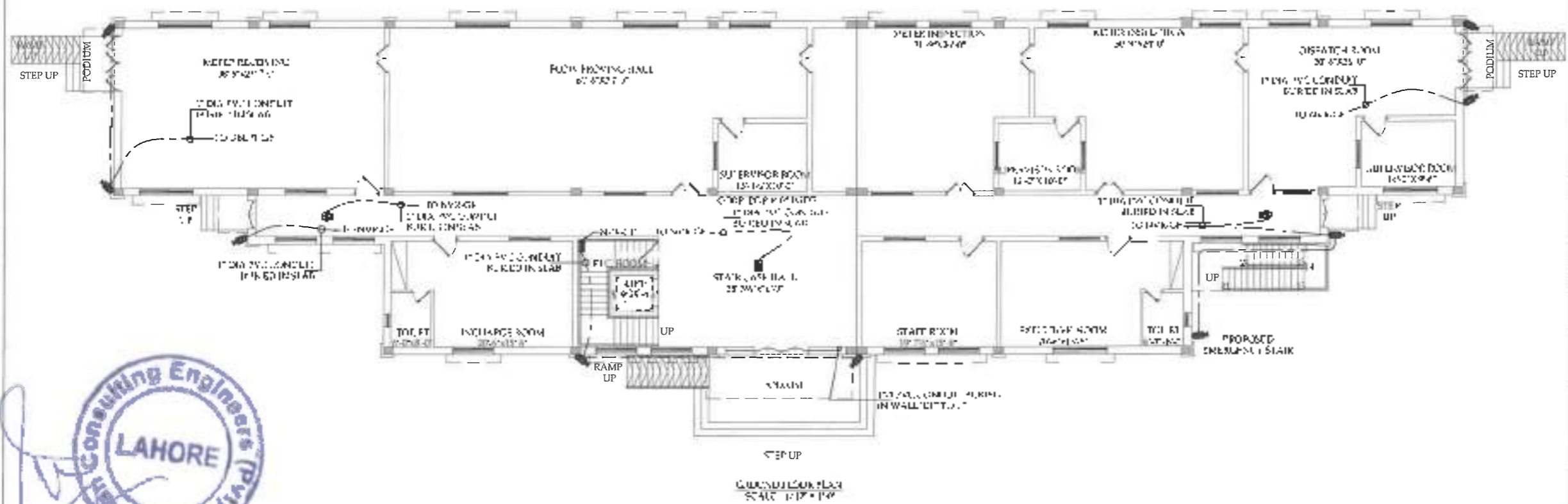
SM/PL-MUL-DMIS-E-07



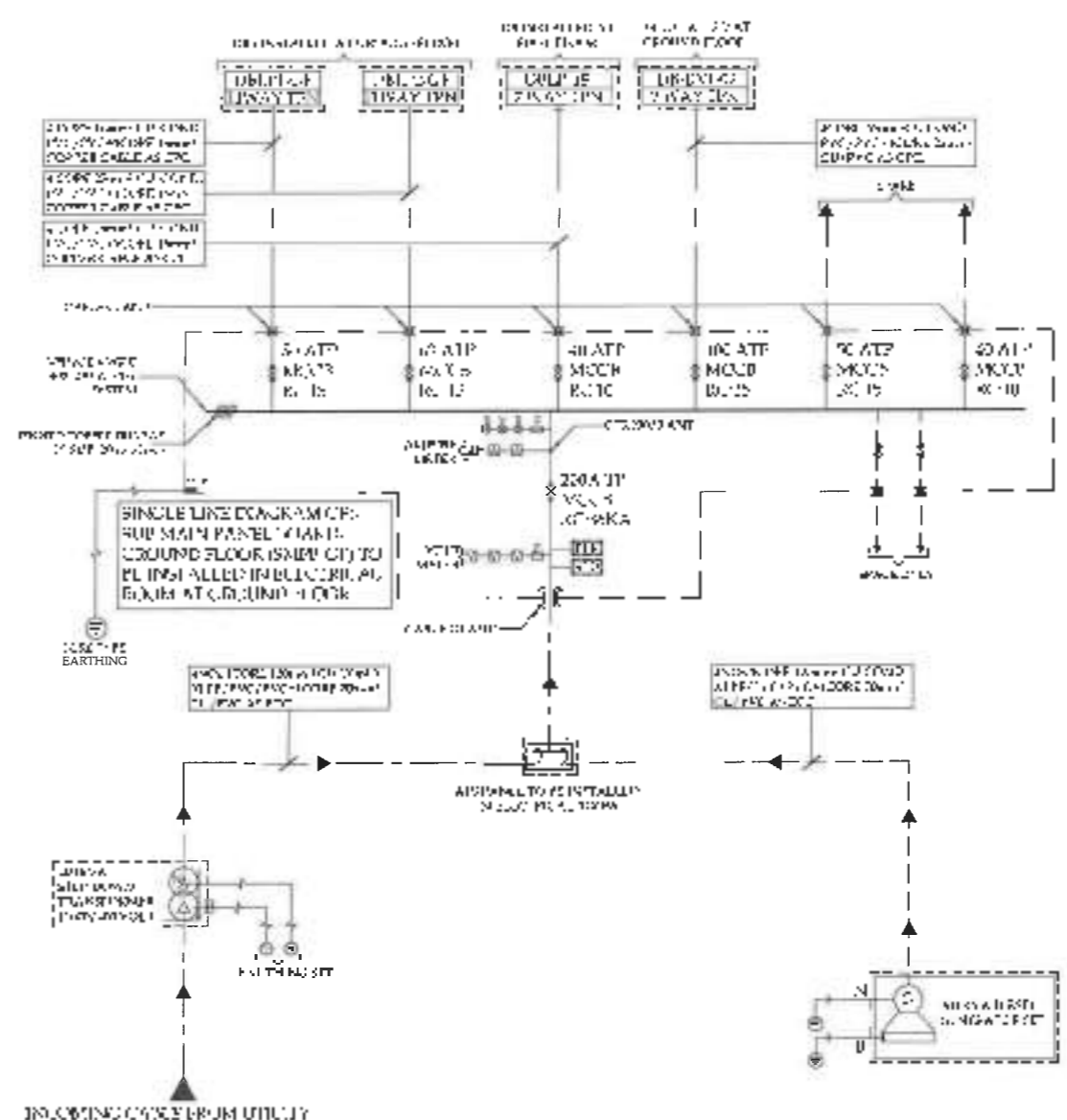
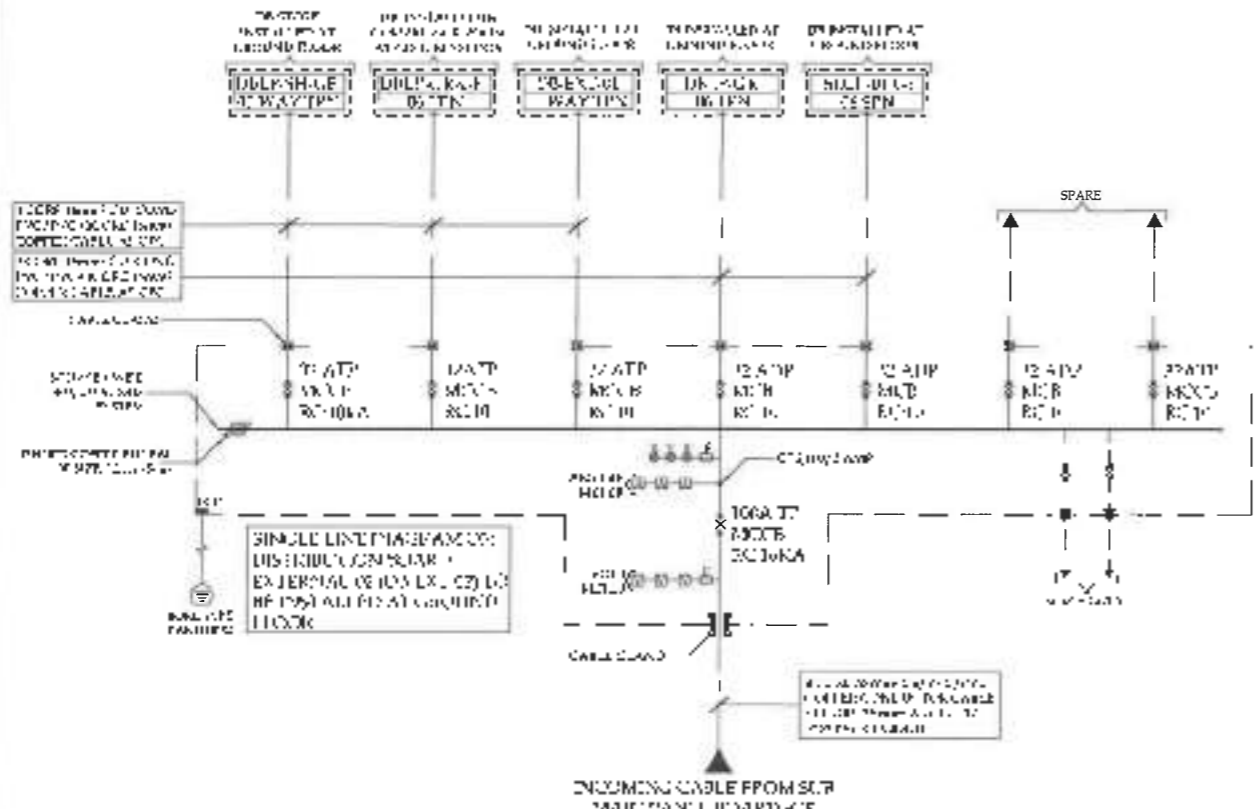
DWS BUILDING



KEY PLAN



SNEPL MULTAN	
COORDINATION LAYOUT PLAN GROUND & FIRST FLOOR PLAN (AS BUILT)	
DATE:	21/07/2024
SCALE:	1/8" = 1'-0"
PROJECT NO.:	SNEPL-MUL-DWS-I-08
CLIENT:	DWSEIC METER INSPECTION SHOP AT MULTAN

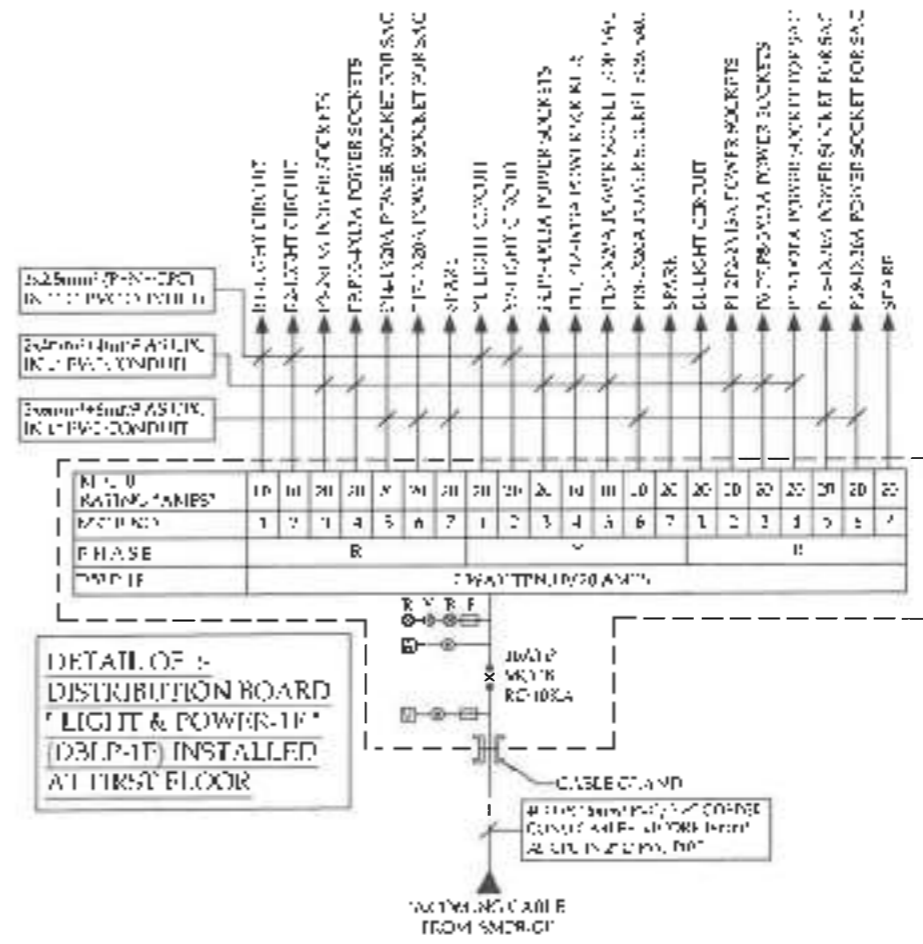
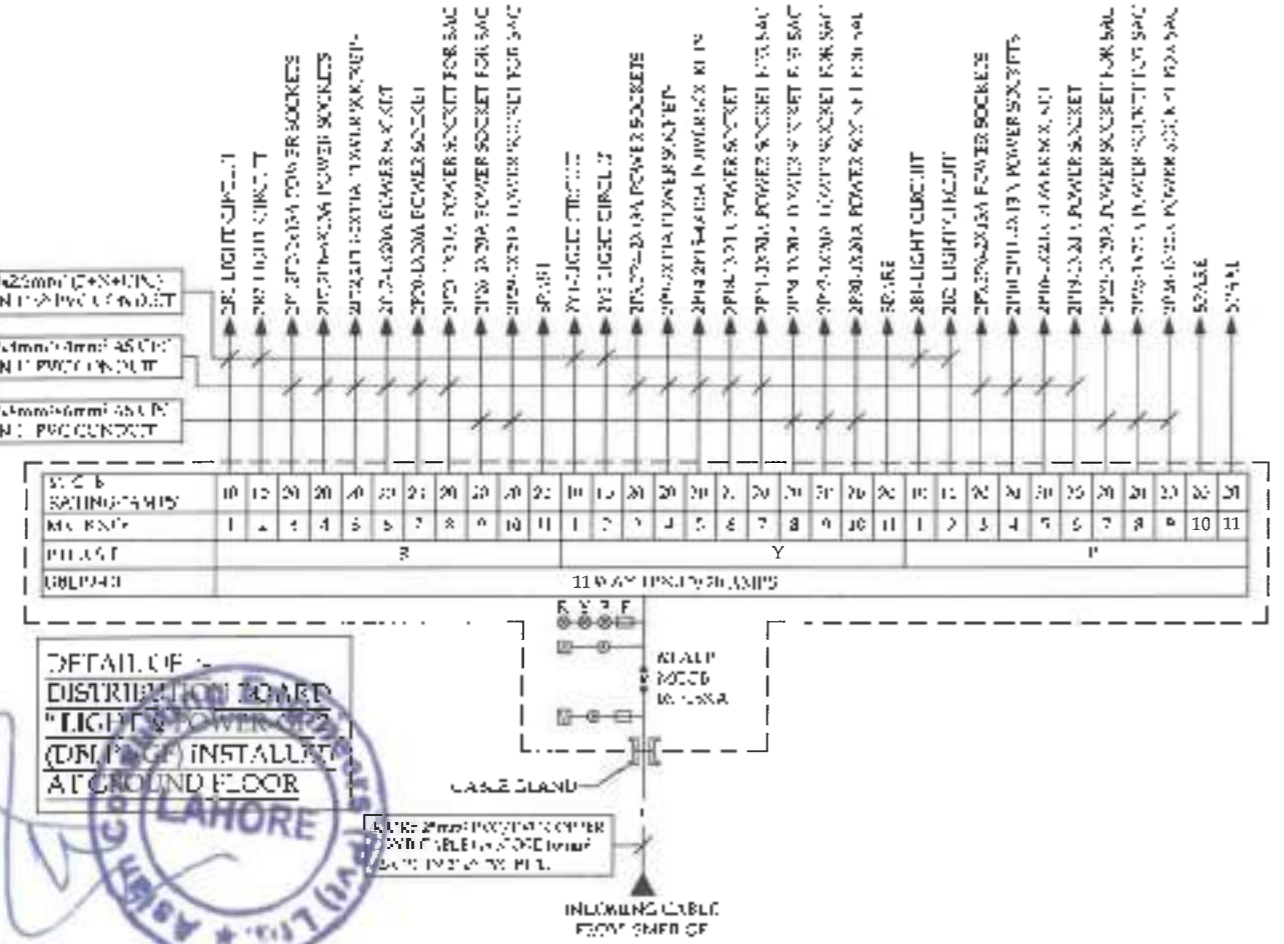
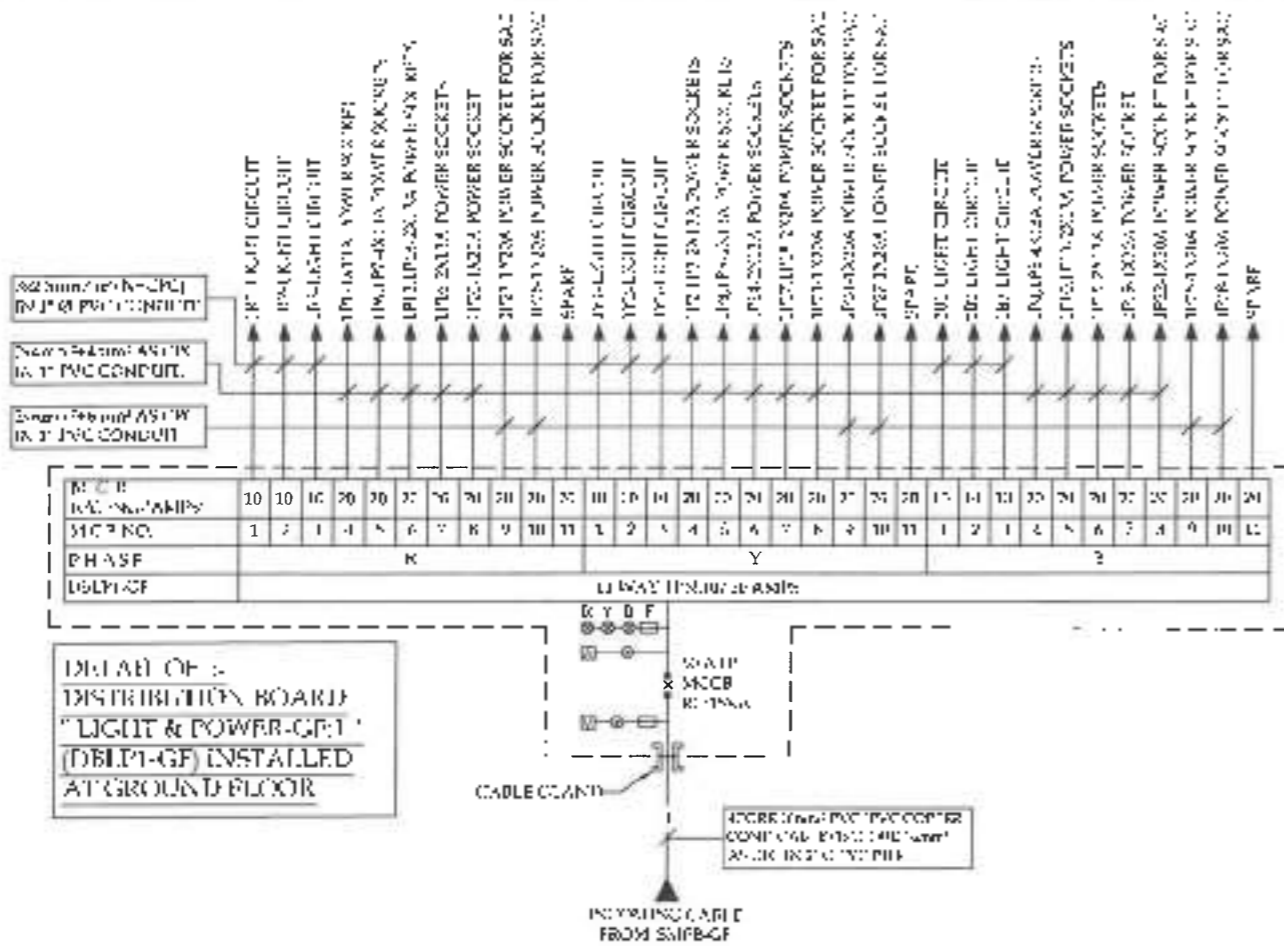


LEGEND & ABBREVIATIONS

- 3-phase, 4-wire system
- METER
- SWITCH
- FUSE
- CABLE TRAY
- CABLE GLAND
- CABLE DUCT
- CABLE TRAY COVER
- CABLE TRAY SUPPORT
- CABLE TRAY LADDER
- CABLE TRAY RISER
- CABLE TRAY DOWNER
- CABLE TRAY ELBOW
- CABLE TRAY TEE
- CABLE TRAY CROSS
- CABLE TRAY REDUCER
- CABLE TRAY EXPANSION JOINT
- CABLE TRAY END CAP
- CABLE TRAY SPLICE
- CABLE TRAY REPAIR KIT
- CABLE TRAY ACCESSORIES



SINEL MILLIAN	
SINGLE LINE DIAGRAM OF SUBMAIN PANEL (SMP) AT GROUND FLOOR (SMP-GF)	
NO.	DATE
REV.	DESCRIPTION
1	ISSUED FOR APPROVAL
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
DESIGNED BY: SINEL MILLIAN	
CHECKED BY: SINEL MILLIAN	
APPROVED BY: SINEL MILLIAN	
CLIENT: LAHORE	
SINEL MILLIAN ENGINEERING & CONSTRUCTION 10/10, Phase 1, Block 1, Sector 10, F-7/2, Islamabad.	



LEGEND :-

- PHASE INDICATION LAMPS
- VOLT METER
- SELECTOR SWITCH
- FUSE
- BRASS CABLE GLAND
- MINIAOTRE CIRCUIT BREAKER
- RUPITURING CAPACITY
- KILO AMPERE
- MOULDED CASE CIRCUIT BREAKER
- AMPERE TRIPLE POLE

SHOP, MULTAN
DETAIL OF THE RESOLUTION
FOR THE LIGHT & POWER
GROUND & FIRST FLOOR PLUMBING & ELECTRICAL

NO.	1	2	3	4	5	6	7	8	9	10
DATE										
BY										
FOR										

SMPL/ML/DMG-10

PROJECT: DOMESTIC WATER SUPPLY INSPECTION SHOP AT MULTAN

CLIENT:

SCALE: 1:100

DATE: 10/10/2024

Plumbing



GENERAL NOTES

- 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LAWS, REGULATIONS, CODES, STANDARDS AND PRACTICES CURRENTLY IN FORCE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
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- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
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- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.

LEGEND AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CM	COLD WATER SUPPLY	SV	SOLVED VALVE	DI	DIRECT INLET
HW	HOT WATER SUPPLY	CV	CHECK VALVE	RI	REMOTE INLET
HWR	HOT WATER RETURN	RPZ	REDUCED PRESSURE ZONE VALVE	OD	OUTER DIAMETER
W	WASTE WATER LINE	WC	WATER CLOSET	I	INNER DIAMETER
S	SINK WATER LINE	UR	URINAL	PEX	CROSS-LINKED POLYETHYLENE PIPE
V	VENT PIPE	SF	SINK FAUCET	PPR	POLYPROPYLENE RANDOM COPOLYMER
RWP	RAIN WATER PIPE	WF	WATER FAUCET	UPVC	UNPLASTICIZED POLYVINYL CHLORIDE PIPE
GT	GREASE TRAP	SF	SINK FAUCET	UPVC	UNPLASTICIZED POLYVINYL CHLORIDE PIPE
OT	OUTLET TRAP	HSH	HAND SHOWER HOSE	CI	CAST IRON PIPE
FI	FLOOR FLAP	MI	MIXER HEAD	HDPB	HIGH DENSITY POLYETHYLENE PIPE
WB	WASH BASIN	TV	THERMOSTATIC MIXING VALVE	PI	POLYETHYLENE PIPE
KS	KITCHEN SINK	SI	SINK ISLAND	SS	STAINLESS STEEL PIPE
WH	WATER HEATER	EP	EXPANSION TANK	CU	COPPER PIPE
HB	HOSE BIB	MR	MIXER	FF	FEMALE TO FEMALE
IT	INLET	MF	MIXER FAUCET	MM	MALE TO MALE
SVP	SINK WATER PIPE	DCW	DOMESTIC COLD WATER	MF	MALE TO FEMALE
SWP	STORAGE WATER PIPE	DHW	DOMESTIC HOT WATER	ROD	RED-OUT POINT
CP	COLD PIPE	HDR	HEADLINE PIPE	TS	TEST STATION
UPP	UPPER FLOOR PIPE	BR	BRANCH PIPE	BP	BOOSTER PUMP
FSE	FLOOR SINK	MS	MIXER HEAD	F100	FAN COIL UNIT DRAIN
E.B	ELBOW FITTING	IS	INSULATION	SHD	SHOWER HEAD
CO	CORNER OPENING	GT	GREASE TRAP	EDHD	EDUCATION DRAIN
VP	VERTICAL UP PIPE	TRP	TRAP SEAL	EV	EXPANSION VALVE
VCP	VERTICAL DOWN PIPE	UR	URINAL	IN	INLET
HFP	HORIZONTAL FLOW PIPE	URD	URINAL DRAIN	OUT	OUTLET
AVV	AIR ADJUSTMENT VALVE	FR	FLOOR FINISH	SLV	PIPE SLEEVE
NRV	NON RETURN VALVE	IS	INSULATION	INS	PIPE INSULATION
RRV	REVERSE RETURN VALVE	RS	RUSH OUTLET	WL	WATER LEVEL
BV	BALL VALVE	ST	STAIR TOP SEAL	FL	FLOOR LEVEL
GV	GATE VALVE	WF	WATER FLOOR PIPE	IJ	INLET LEVEL
		AC	AIR CONDITIONING DRAIN	PL	PIPE LENGTH
		SC	SEWER CONNECTION WATER METER	CVL	WATER VALVE LINE

SHOR, MILITARY

1. IMPORTANT NOTES

DATE: / /

SCALE: 1:100

PROJECT: DOMESTIC WATER SUPPLY AND SANITATION FOR SHOR MILITARY

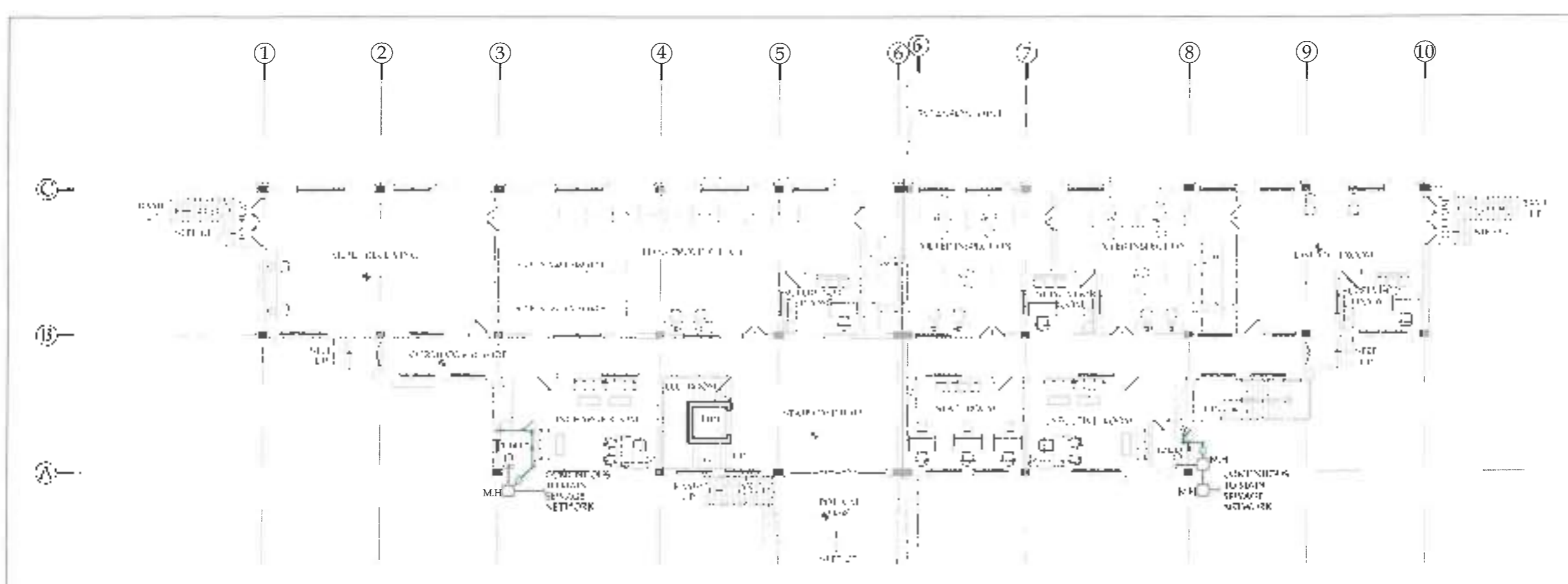
CLIENT: SHOR MILITARY

DESIGNER: [Signature]

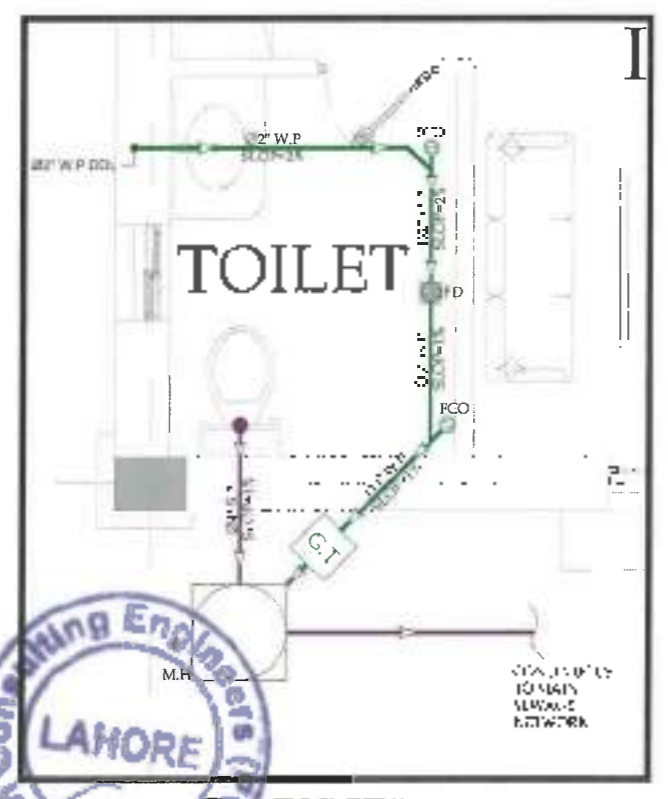
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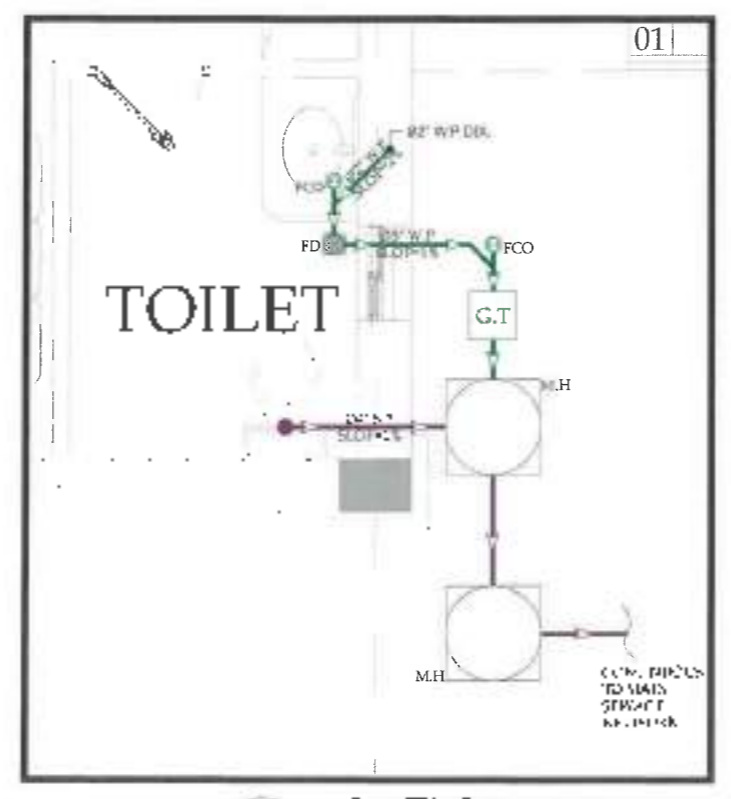
SHOR-MIL-DWG-PL-01



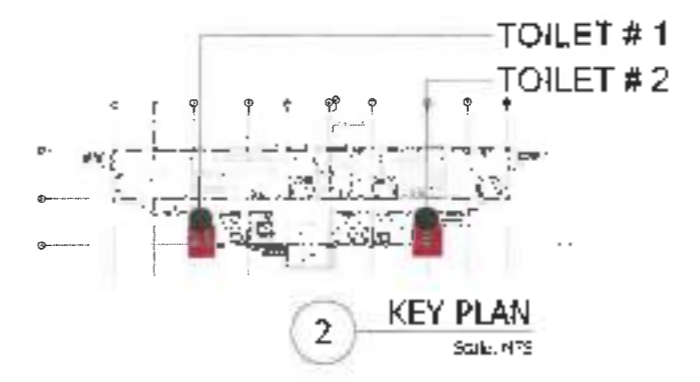
1 GROUND FLOOR LAYOUT
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TOILET #1
Scale: 1/4" = 1'-0"



TOILET #2
Scale: 1/4" = 1'-0"

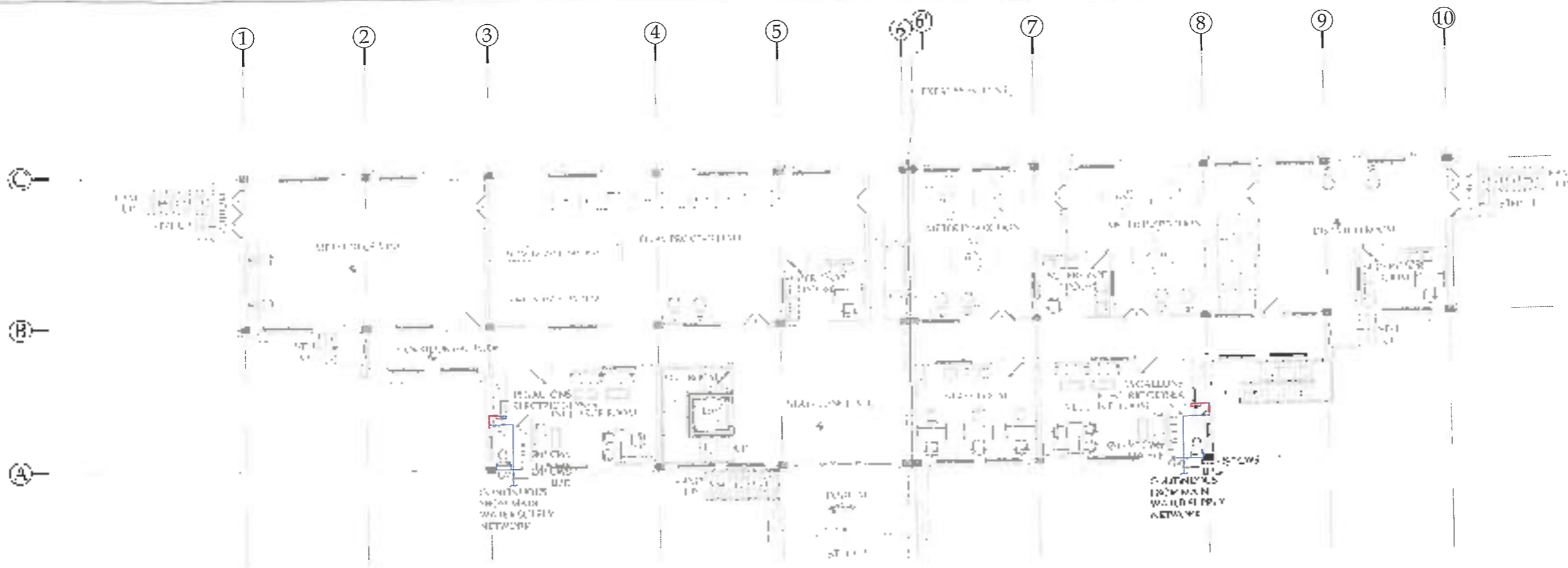


2 KEY PLAN
Scale: NTS

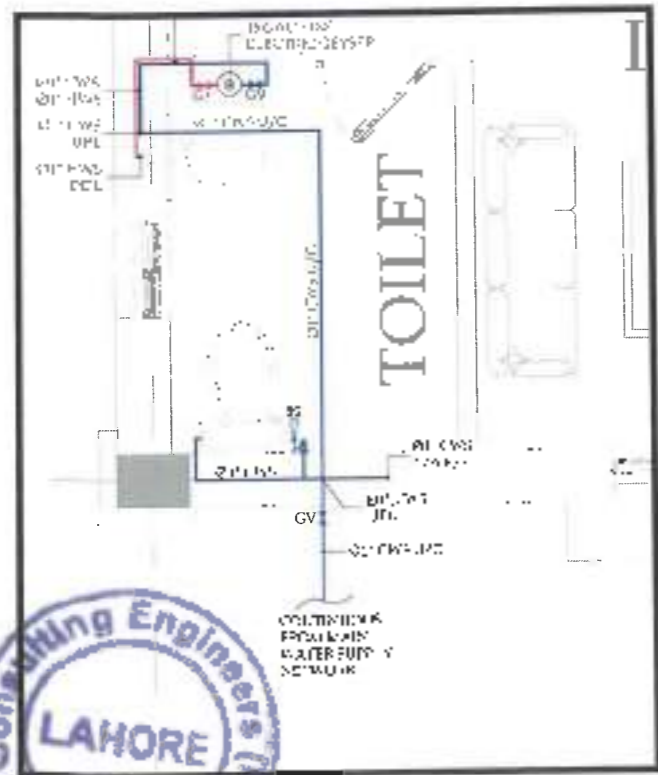
SNGPL-MUL-DMS-3-PL-03



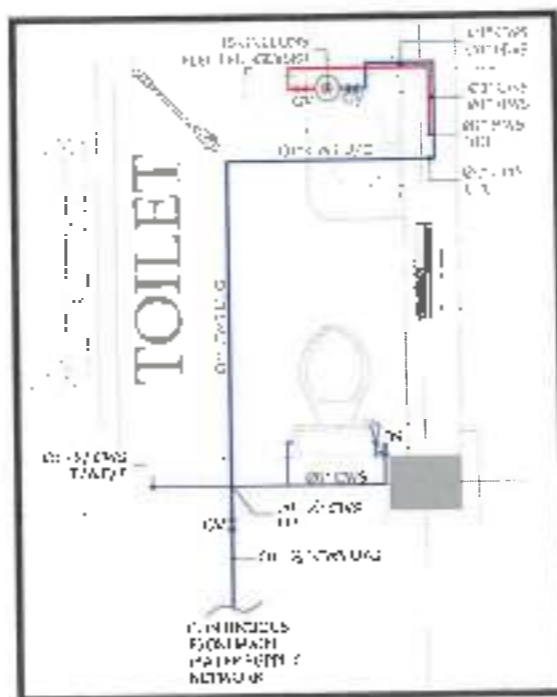
ENGINEER M. TAJAN PROJECT: ULTRASONIC METER INSPECTIVE SHIP AT MULTAN	
NO. OF SHEETS: 01 SHEET NO: 01	DATE: 10/10/2017 SCALE: NTS
PROJECT NO: SNGPL-MUL-DMS-PL-03 SHEET NO: 01	CLIENT:
CONSULTANT:	



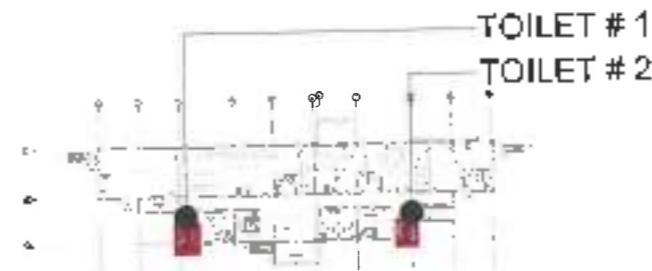
1 GROUND FLOOR LAYOUT
Scale: 1/14" = 1'-0"



3 TOILET #1
Scale: 3/8" = 1'-0"



4 TOILET #2
Scale: 3/8" = 1'-0"



2 KEY PLAN
Scale: 1/14" = 1'-0"

SME PLAN, DWG. NO. PL-04



ENGINEER'S SEAL

NAME: **SNRPL MILTAN**

PROJECT: **GROUND FLOOR WATER SUPPLY SYSTEM LAYOUT**

DATE	NO.	REV.

PROJECT NO: **SNRPL - DWG. NO. PL-04**

DATE: **10/10/2023**

SCALE: **AS SHOWN**

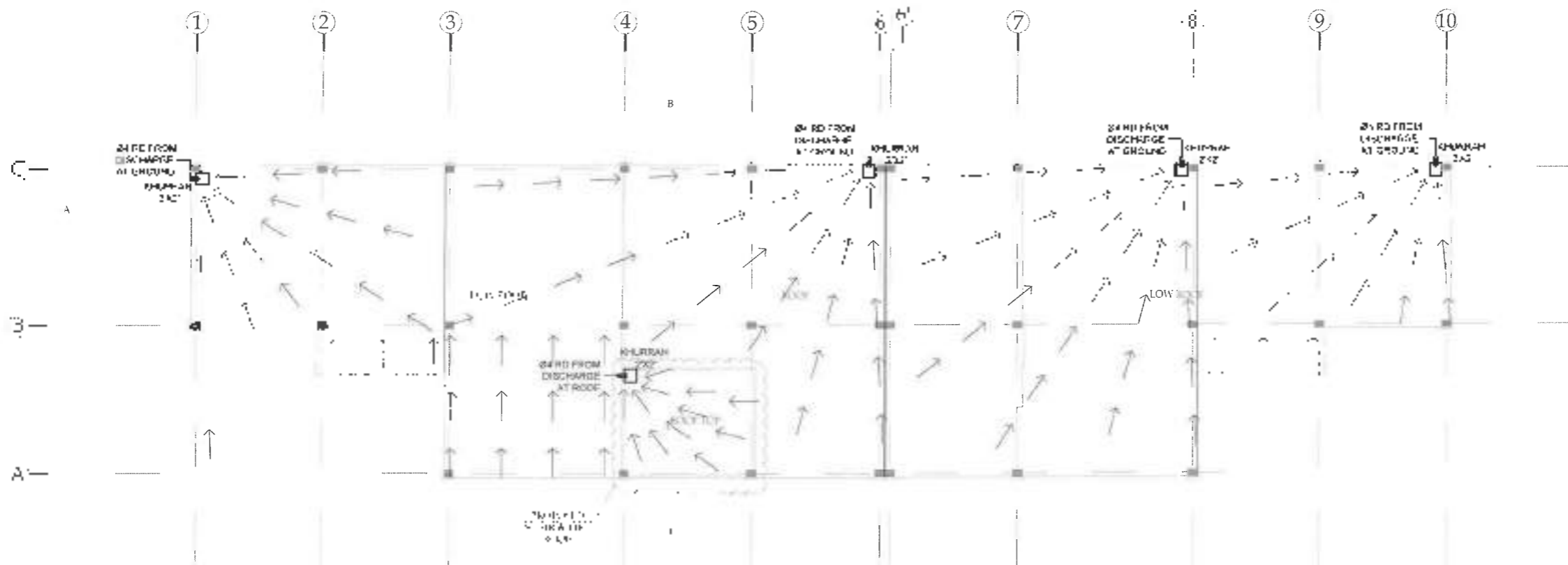
PROJECT: **DOMESTIC WATER SUPPLY SYSTEM LAYOUT INSPECTION SHOP AT MIRA TARI**

REGISTERED PROFESSIONAL ENGINEER

MEMBER - ENGINEERING COUNCIL OF PAKISTAN

MEMBER - PAKISTAN ENGINEERING COUNCIL

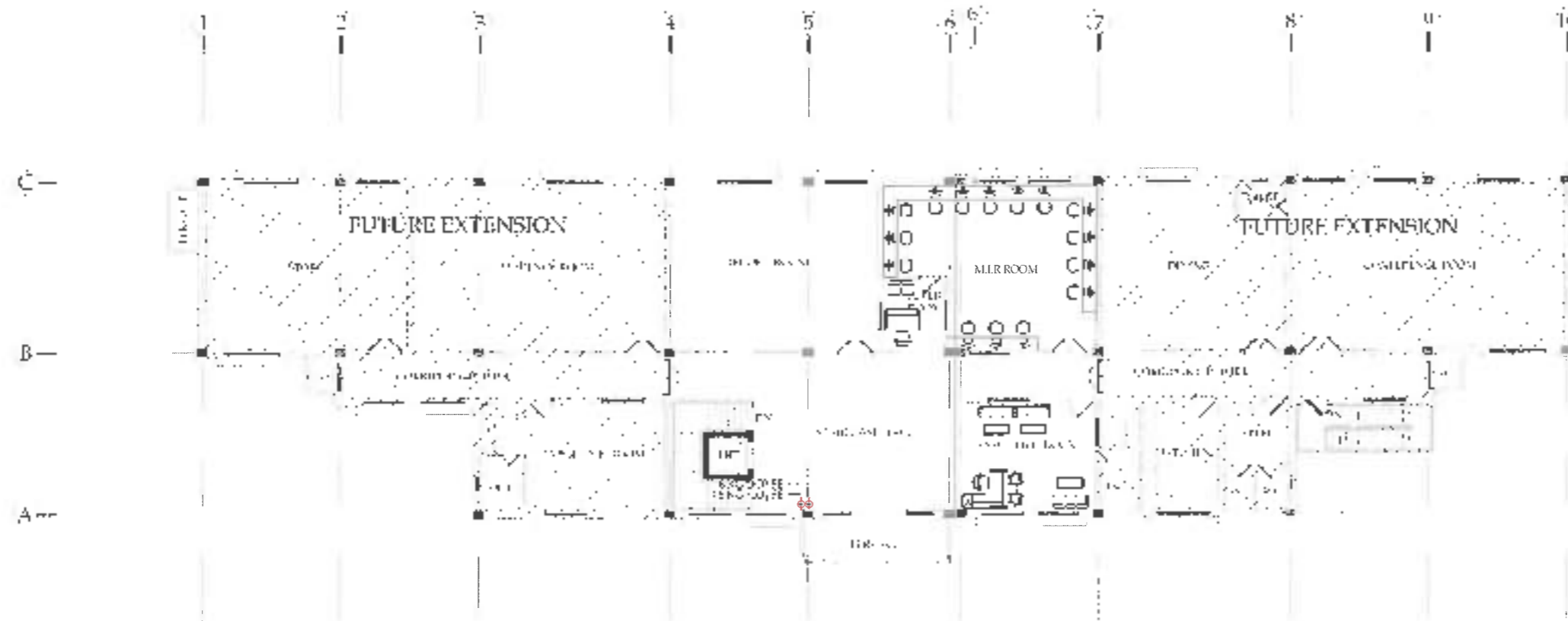
MEMBER - PAKISTAN SOCIETY OF MECHANICAL ENGINEERS



1
ROOT TOP
MUMTY FLOOR PLAN
 Scale: 1/16" = 1'-0"



ENSR, MUJ TAN	
TITLE	
ROOF DRAIN LAYOUT	
DATE	DATE
BY	BY
CHECKED	CHECKED
PROJECT NO.	PROJECT NO.
SNQPL-MJL-SMIS-PL-05	REV. NO.
PROJECT	PROJECT
DOMESTIC WATER INSPECTION SHOP AT MUJ TAN	
CLIENT	CLIENT



1 FIRST FLOOR LAYOUT
Scale: 3/32" = 1'-0"



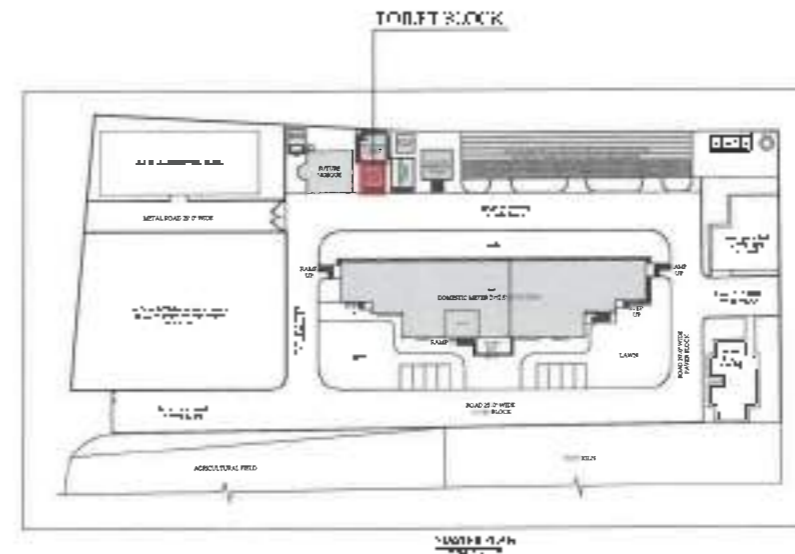
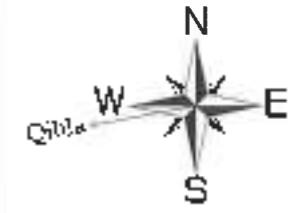
SHEPL MUL 76A			
1st FLOOR FIRE PROTECTION SYSTEM LAYOUT			
NO.	DATE	BY	CHKD.
1/1	2024-08-01	SMG	SMG
PROJECT:			
SNGPL MUL-DWIS-FF-02		1/20	1/20
DRAWN BY:			
CHECKED BY:			
DATE:			
CLIENT:			
CONSULTANT:			

TOILET BLOCK



Architecture

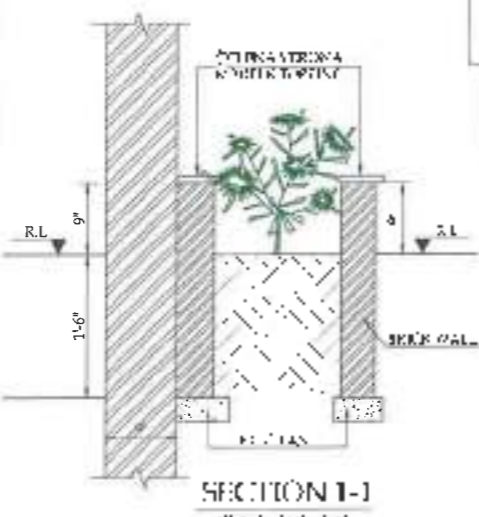
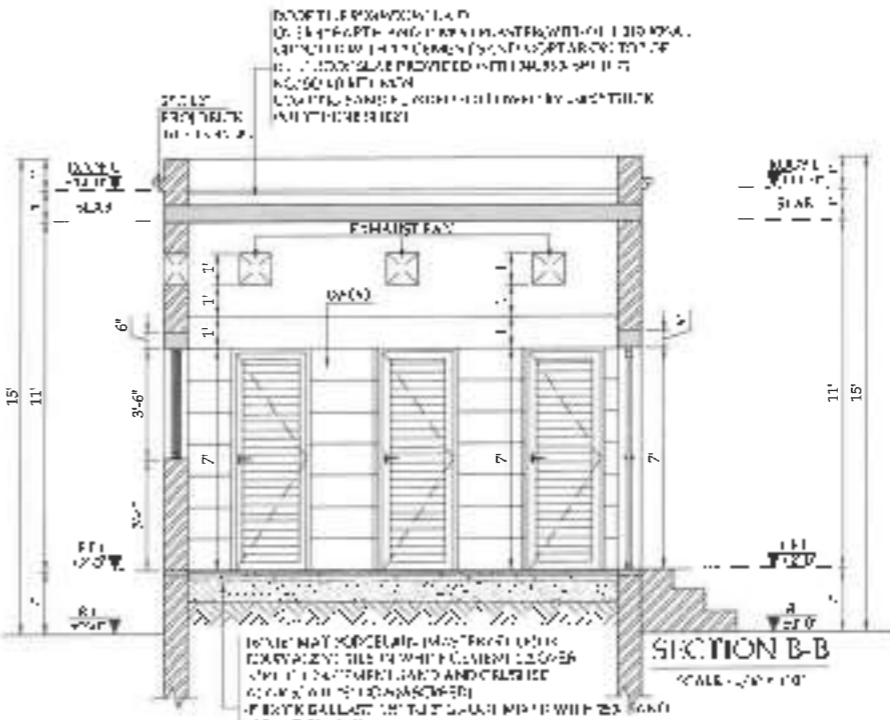
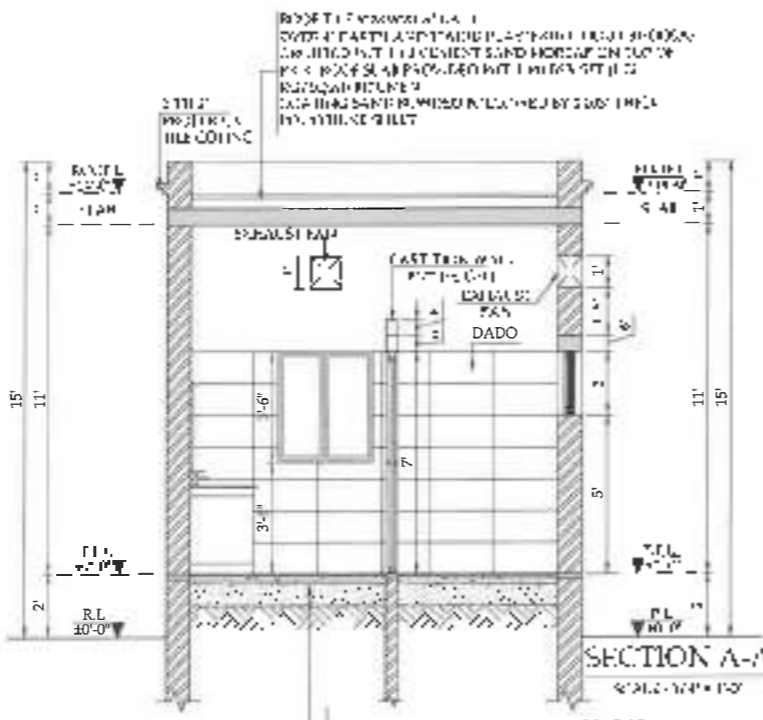
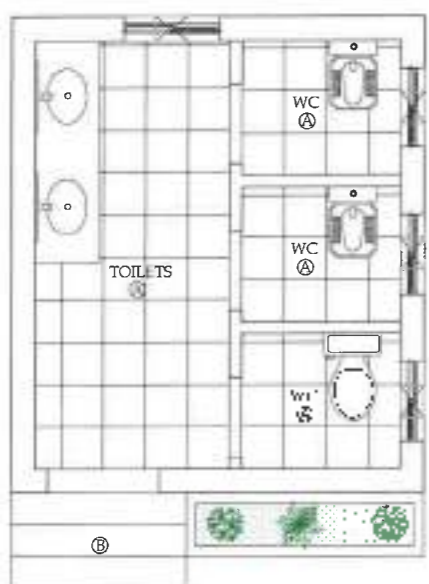
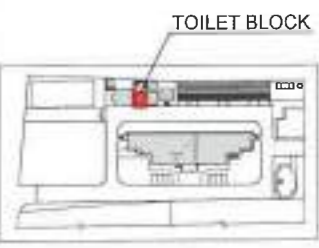
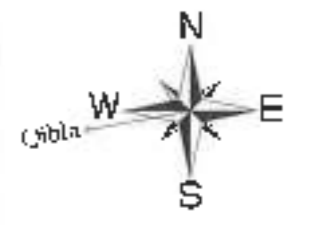
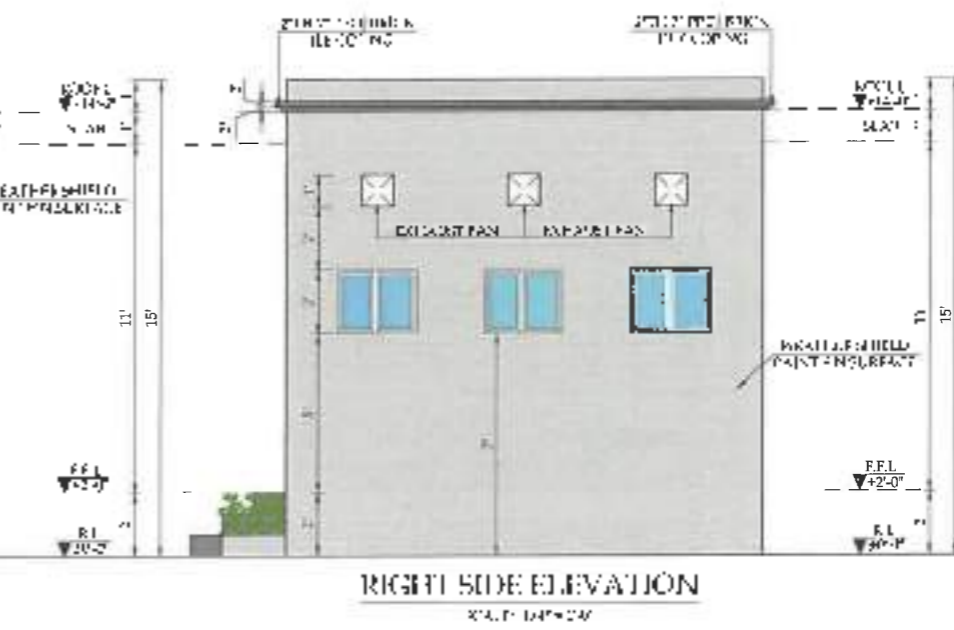
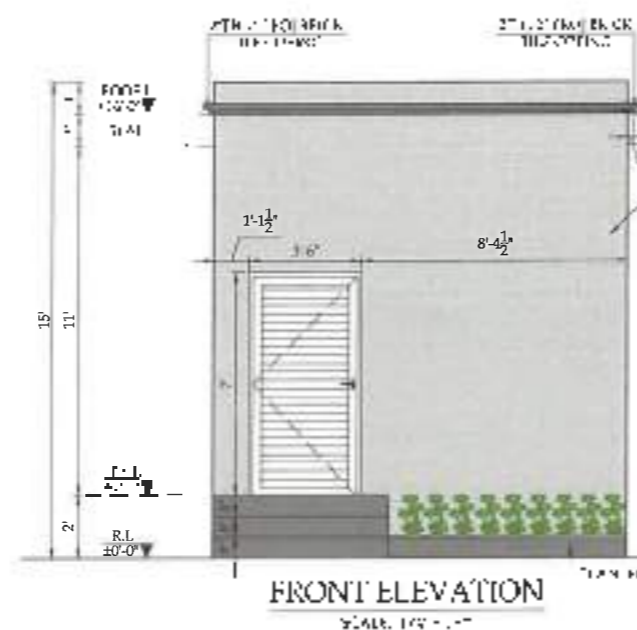
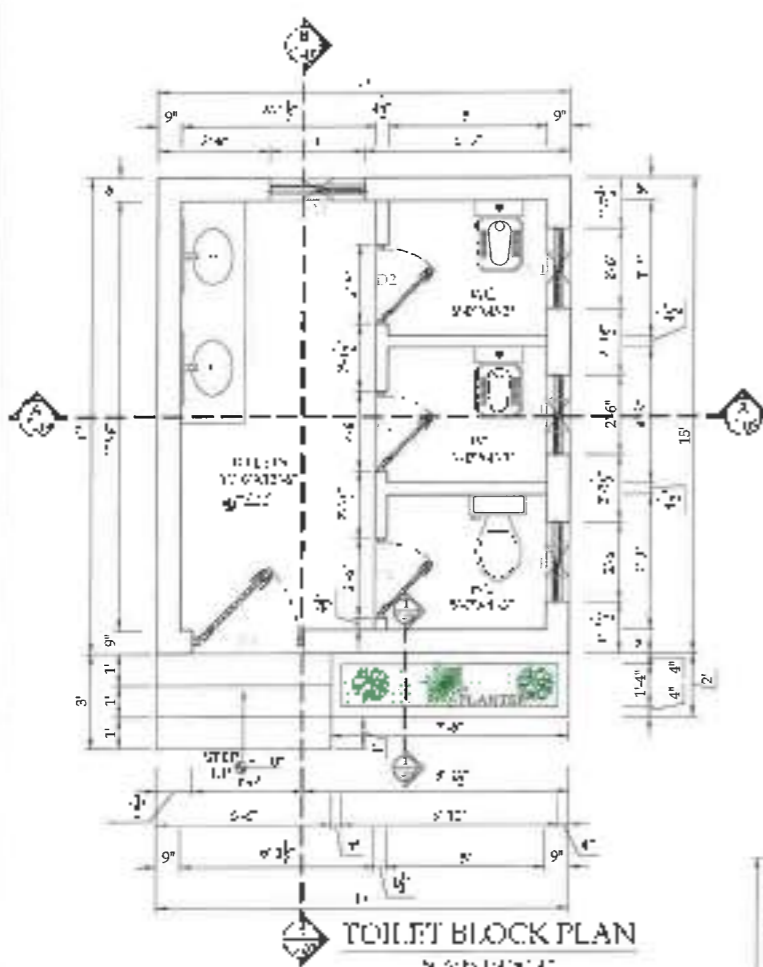




SNGPL MULTAN			
LOCATION PLAN			
NO.	DATE	BY	SCALE
1	2023/05/01	ENR	1:1000
PROJECT		DATE	BY
SNGPL-MUL-TC-C-01		04/21/23	ENR
PREPARED BY			
DESIGN & DRAWING			
INSPECTED BY			
CLIENT			

SNGPL-MUL-TC-C-01





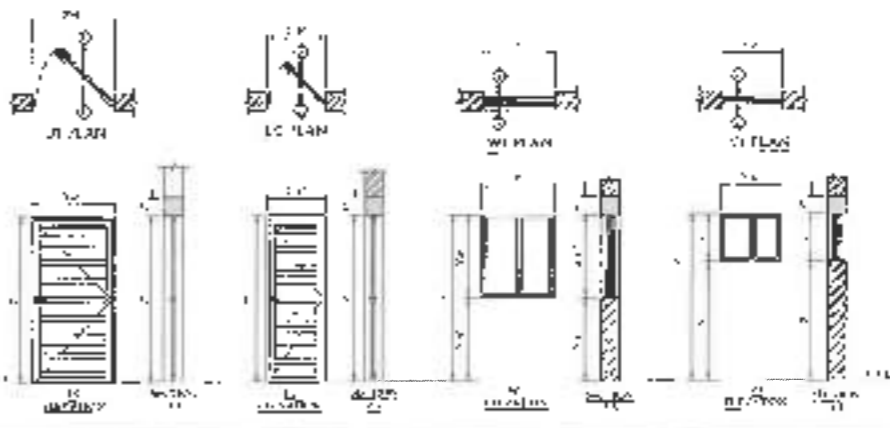
DOORS SCHEDULE

Sl. No.	Material	Remarks
1	1.00	1.00
2	1.00	1.00

WINDOWS SCHEDULE

Sl. No.	Material	Remarks
1	1.00	1.00
2	1.00	1.00

AREA STATEMENT
TOILET AREA = 195 SFT



LEGEND
FLOORING PATTERN
TOILET BLOCK

SHEET MULTAN

TOILET BLOCK PLAN & DETAILS

Sl. No.	Rev.	Description	Date
1	1	ISSUED FOR PERMIT	10/10/2023

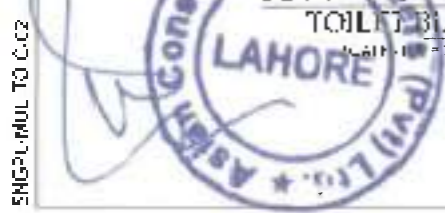
DESIGNED BY: **ENGR. M. T. QURESHI**

CHECKED BY: **ENGR. M. T. QURESHI**

PROJECT: **DOMESTIC WATER SUPPLY PROJECT**

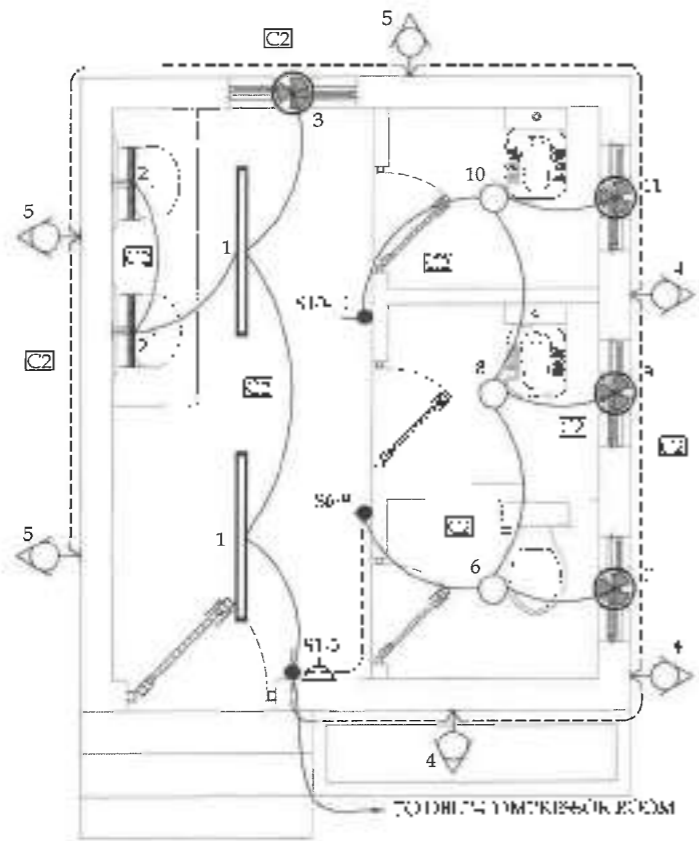
CLIENT: **MULTAN WATER SUPPLY CORPORATION**

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



Electrical





TOILET BLOCK PLAN

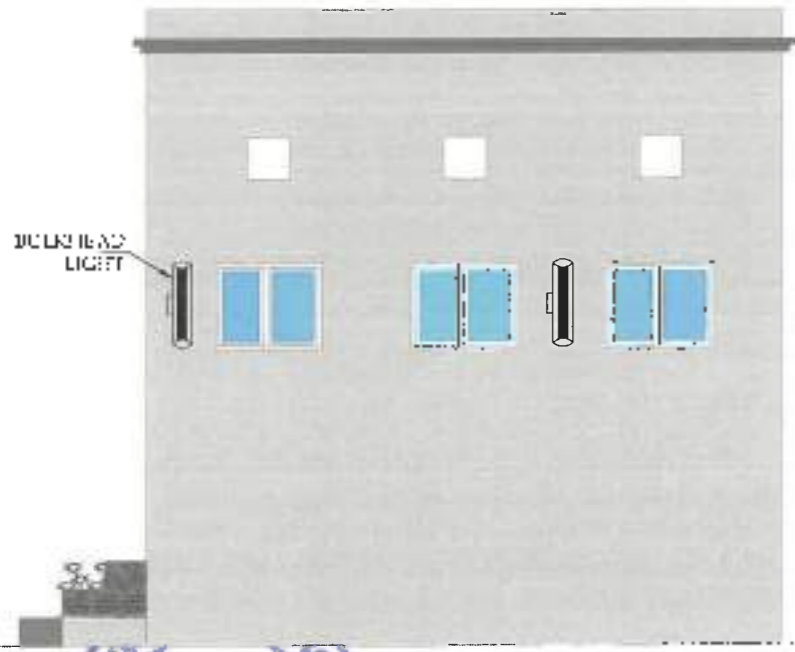
GENERAL NOTES:

- 01 **ELECTRICAL WORKS**
ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 02 **ELECTRICAL CONDUITING**
ALL ELECTRICAL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 03 **ELECTRICAL WIRING**
ALL ELECTRICAL WIRING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 04 **PVC CONDUITS**
ALL ELECTRICAL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 05 **COLOR CODING**
ALL ELECTRICAL WIRING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 06 **LABLING OF JUNCTIONS**
ALL ELECTRICAL JUNCTIONS SHALL BE LABLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 07 **CAPACITY OF CONDUITS**
ALL ELECTRICAL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 08 **OTHER SYSTEMS**
ALL OTHER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 09 **ELECTRICAL CONSULTANT**
ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).
- 10 **FERRULING**
ALL ELECTRICAL WIRING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL REGULATIONS (NER).

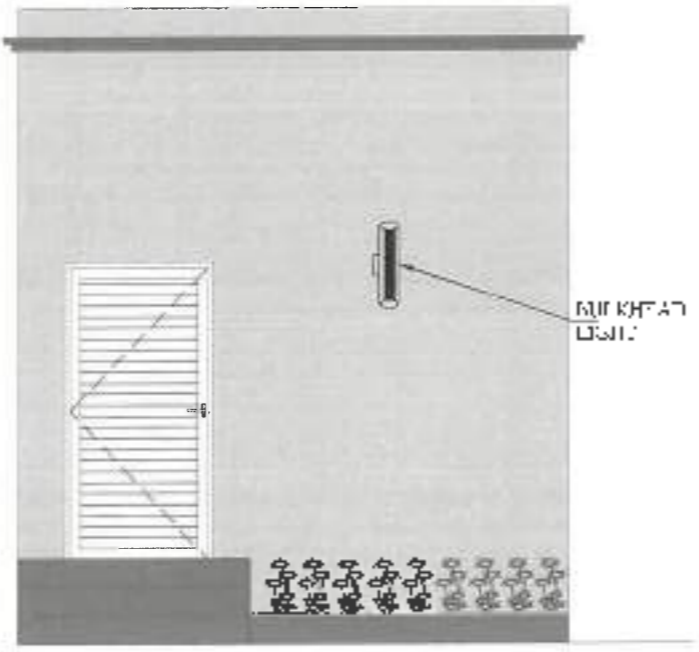
LEGEND			
NO.	SYMBOL	DESCRIPTION	QUANTITY
01	⊕	WALL MOUNTED SWITCH	100
02	⊙	LED DOWN LIGHT	200
03	⊖	WALL MOUNTED OUTLET	100
04	—	PVC CONDUIT	1000
05	●	ELECTRICAL JUNCTION	100
06	⊕	WALL MOUNTED SWITCH	100
07	⊙	LED DOWN LIGHT	200
08	⊖	WALL MOUNTED OUTLET	100



KEY PLAN



RIGHT SIDE ELEVATION



FRONT ELEVATION

SMRPI-MUL-TO-E-02



SMRPI-MUL-TO-E-02

LIGHTING & ELEVATION LAYOUT PLAN

NO.	DATE	BY	CHKD.
01	10/10/2023	SMRPI	SMRPI

SMRPI-MUL-TO-E-02

INSPECTION SHOP AT MUL TARI

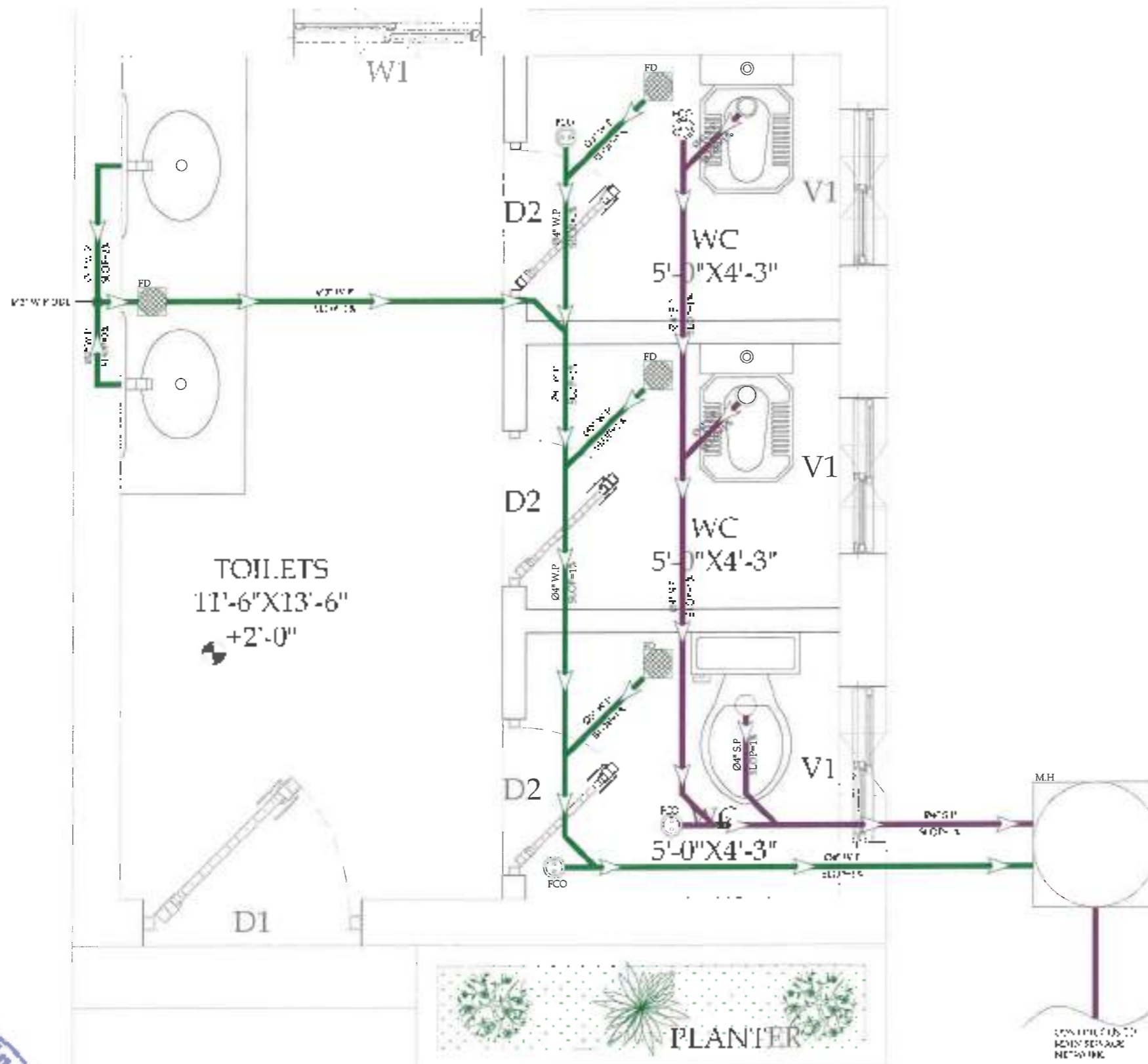
CLIENT:

DATE: 10/10/2023

BY: SMRPI

Plumbing



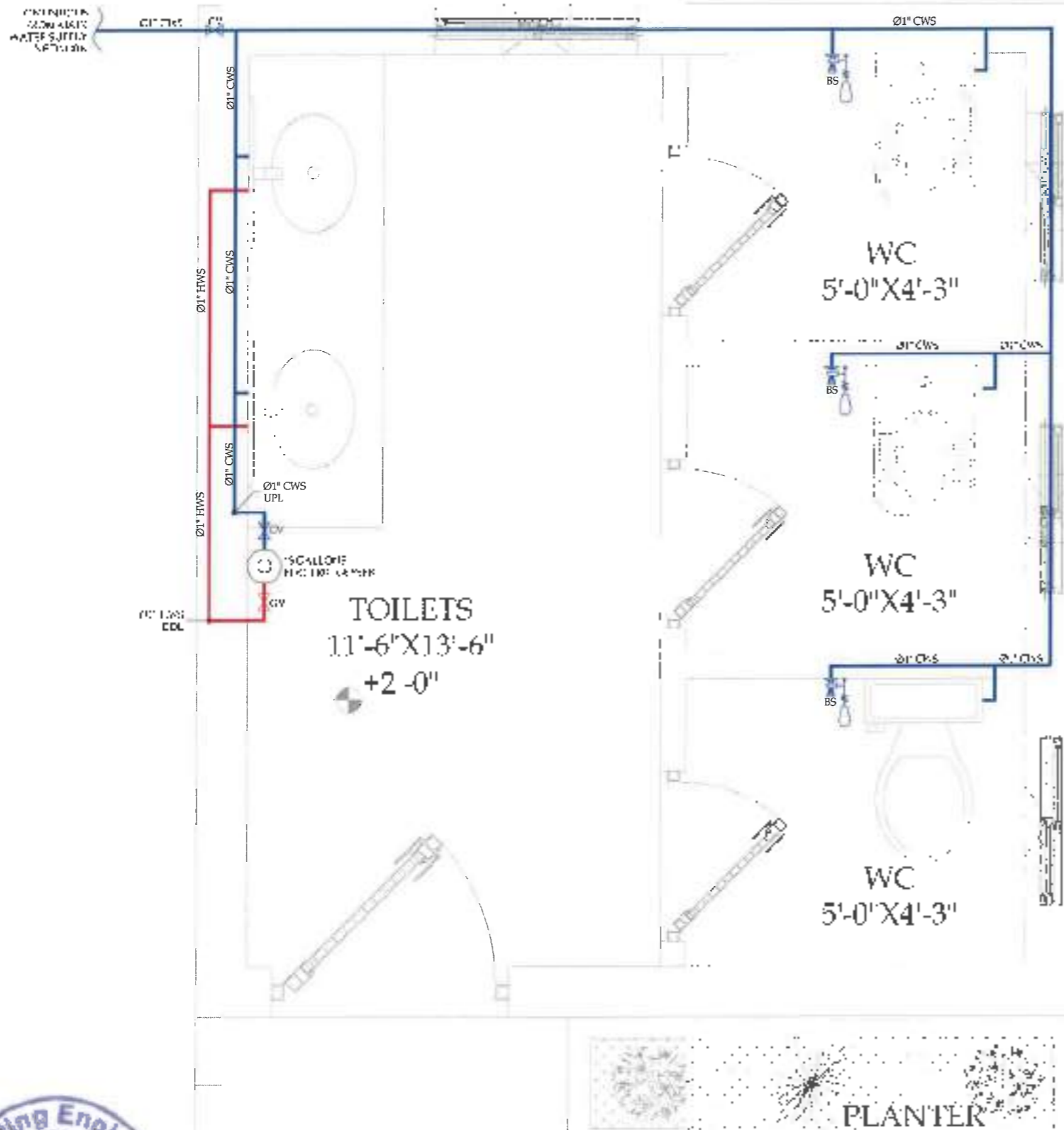


STEP UP $\pm 0'-0''$ 1 GROUND FLOOR LAYOUT
 Scale: 1/4" = 1'-0"



SNOFF MULTAY		
PROJECT: GROUND FLOOR DRAINAGE SYSTEM (1-21111)		
NO.	DATE	DESCRIPTION
1	10/10/2023	ISSUED FOR PERMIT
2	10/10/2023	ISSUED FOR CONSTRUCTION
PROJECT: SNCP - MULTO-PLC2		
PROJECT: DOMESTIC METER INSPECTION SHUPA MULTAY		
CLIENT:		
CONSULTANT:		

SNOFF-PL-1-TC-PL-02



STEP UP ±0'-0" 1 GROUND FLOOR LAYOUT
Scale: 1/4" = 1'-0"



SHAPE WATER
BY
GROUND FLOOR WATER SUPPLY SYSTEM
LAYOUT

NO.	DATE	BY	CHKD
1	20/08/2024	Asim	Asim
2	20/08/2024	Asim	Asim

PROJECT
SINGHL MUL TO PL 03

Part 1
DOMESTIC WATER
IN-SITU 104 SINGHL AT MULTAN

CLIENT:

The client's name is partially obscured but appears to be 'The client's name is partially obscured'.

DESIGNER:

The design firm's name is partially obscured but appears to be 'The design firm's name is partially obscured'.

