



RENOVATION OF STATIONS

TENDER DOCUMENT FOR FISCAL YEAR 2025-2026

(Single Stage One Envelope)

NOTICE INVITING TENDER

Sindh Integrated Emergency and Health Services (SIEHS), invites bids electronically through EPADS for the Renovation of Stations on the basis of Single Stage One Envelope from well reputed registered company available on List of Active Tax Payers" of FBR (for Income Tax) & GST/SRB (For Sales / Service Tax) websites whichever is applicable.

Sr #	Description	Tender fee	Bid Security	Date of bid submission	Date of bid opening
1	Renovation of Stations	Rs. 3000/- Non-Refundable	2% of the total bid value including taxes.	21st August 25 at 10:30 AM 28 th August 25 at 10:30 AM	21st August 25 at 11:00 AM 28 th August 25 at 11:00 AM

Tender documents are hoisted at <https://portalsindh.eprocure.gov.pk/#/> and Sindh Integrated Emergency & Health Services website <https://www.siehs.org/tender-documents/> and to be submitted along with tender fee Pay Order / Demand Draft of Rs. 3000 (non-refundable) in favor of Sindh Integrated Emergency and Health Services (NTN# 4979065-0), which must be issued by a scheduled bank and submitted along with the bid documents. Conditional bids, telegraphic bids, bids not accompanied by bid security of required amount and form, bids received after specific date and time and bids of blacklisted firms will be rejected.

SIEHS may issue clarifications or amendments in respect of the bidding documents which will be uploaded to the website (<http://siehs.org/tender-documents/>), SIEHS will not be responsible for any confusion or misunderstanding in this regard.

In case of any unforeseen situation or government holiday resulting in closure of office on the date of bid opening, bids will be submitted/opened on next working day at the tentative given time and venue.

SIEHS reserves the right to reject any or all the bids subject to the relevant provisions of SPP Rules 2010(Amended 2024). In case of any discrepancy, the SPPRA rules will take precedence.

SIEHS invites bids electronically through EPADS on **Single Stage - One Envelope Procedure** for the Renovation of Stations from well-reputed companies registered with federal/provincial tax authorities.

The Procurement Agency reserves the right to reject any or all bids subject to relevant provisions of SPPRA Rules, 2010 and may cancel the bidding process at any time prior to the acceptance of a bid or proposal under Rule-25 of said Rules.

Address for submission and opening of bids:

Sindh Integrated Emergency and Health Services

43-15 / K, Block 6, PECHS, Near Madina Masjid, PTCL Exchange, Karachi Phone No. + 92 21 111-

111-823 Ext 2510 & 2005, Email: procurement@siehs.org

COMPANY INTRODUCTION

Sindh Integrated Emergency & Health Services (SIEHS) is a Section 42 not-for-profit company formed in collaboration with the Government of Sindh. This service is the realization of the Government of Sindh's commitment to strengthening the primary healthcare structure in Sindh through a public-private arrangement, ensuring the delivery of timely, effective, patient-focused ambulance and holistic healthcare services, free of cost.

SIEHS operates and manages Pakistan's first and only ISO 9001:2015 certified ambulance service, 1122. The ambulatory wing operates according to international protocols and is equipped with advanced medical equipment, life-saving drugs, and qualified paramedics and nurses, providing immediate pre-hospital emergency care to those suffering from acute health trauma. These quality emergency services are available to all who need them, across the social spectrum.

Tele-Tabeeb is our healthcare helpline that provides easy and timely access to a range of services, from basic medical advice to mental health consultations to family planning, through a comprehensive online platform. With 24/7 access to doctors, clinical psychologists, and healthcare experts, supported by updated algorithms for common diseases and the ongoing pandemic, we ensure that people in need receive timely diagnostic and counseling services at any time. Our state-of-the-art call center allows callers to access free medical consultations and counseling services from across Pakistan by simply dialing '1123.'

Research, Development & Education (RDE) serves as the internal training arm of SIEHS. RDE meets the diverse training needs of emergency medical services while offering basic and advanced first aid training to various sectors, including NGOs, hospitals, schools, and corporations.

SIEHS invites bids electronically through EPADS on **Single Stage One Envelope procedure** for the Renovation of Stations from well reputed companies registered with federal / provincial tax authorities.

- i Source of Funds** SIEHS-funded Procurement's. The eligible payment under the contract is to be made from this department.
- ii Eligible Bidders**
- ii.a This Invitation for Bids is open to all suppliers from eligible source as defined in the Amended SPPRA Rules and its Bidding Documents except as provided hereinafter.
 - ii.b Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring agency to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.
 - ii.c Government-owned enterprises in the Province of Sindh may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Government of Sindh.
 - ii.d Bidders shall not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by the any government organization.
- iii Eligible Goods and Services**
- iii.a The origin of all the goods & related services to be supplied under the Contract should be mentioned.
 - iii.b Origin means the place where the goods are mint, grown or produce or the place from which the related services are supplied.
 - iii.c The Origin of goods and services is distinct from the nationality of bidders.
- iv Cost of Bidding**
- iv.a The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency named in the Bid Data Sheet, hereinafter referred to as "the Procuring agency," will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

The Bidding Documents Includes:

Bidding Documents

- (a) Instructions to Bidders (ITB)
- (b) Bid Data Sheet
- (c) General Conditions of Contract (GCC)
- (d) Special Conditions of Contract (SCC)
- (e) Schedule of Requirements
- (f) Technical Specifications
- (g) Bid Form and Price Schedules
- (h) Bid Security Form
- (i) Contract Form
- (j) Performance Security Form
- (k) Manufacturer's Authorization Form (if applicable)

v.b The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.

vi Clarification of Bidding Documents

vi.a An interested Bidder requiring any clarification of the bidding documents may notify the Procuring agency in writing. The Procuring agency will respond in writing to any request for clarification of the bidding documents which it receives no later than three working days prior to the deadline for the submission of bids prescribed in the Bid Data Sheet. Written copies of the Procuring agency's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all interested bidders that have received the bidding documents.

vii Amendment of Bidding Documents

vii.a At any time prior to the deadline for submission of bids, the Procuring agency, for any reason, whether at its own initiative or in response to a clarification requested by an interested Bidder, may modify the bidding documents by amendment.


vii.b All interested bidders that have received the bidding documents will be notified of the amendment in writing, and will be binding on them.

vii.c In order to allow interested bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring agency, at its discretion, may extend the dead line for the submission of bids.


Preparation of Bids:

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| 1. Scope | 1.1 | SIEHS intends the subject procurement through National Competitive Bidding Single Stage One Envelope Procedure as per SPPRA Rules-2010 (Amended 2024) up to date. |
| 2. Language of Bid | 2.1 | The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring agency shall be written in the English language. |
| 3. Documents Comprising the Bid | 3.1 | <p>The bid prepared by the Bidder shall comprise the following components:</p> <ul style="list-style-type: none"> a) Price Schedule completed in accordance with ITB Clauses 4, 5 and 6. b) Bid security furnished in accordance with ITB Clause-9. |
| 4. Bid Prices | 4.1 | The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the goods it proposes to supply under the contract including taxes. |
| | 4.2 | The prices shall be quoted on delivery to consignee's end inclusive of all taxes, stamps, duties, levies, fees and installation and integration charges imposed till the delivery location specified in the schedule of Requirements. No separate payment shall be made of the incidental services. |
| | 4.3 | Prices quoted by the by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. |
| | 4.4 | Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet. |
| 5. Bid Form | 5.1 | The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices. |


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| 6. Bid Currencies | 6.1 Prices Shall be quoted in Pak Rupees. |
| 7. Bidder's Eligibility | 7.1 As defined in Bid Data Sheet. |
| 8. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents | 8.1 The documents evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, Data and shall consist of: <ul style="list-style-type: none"> (a) a detailed description of the essential technical and performance characteristics of the goods; (b) the Bidder shall note that standards for workmanship, material, equipment, as well as references to brand names or catalogue numbers designated by the Procuring agency in its Technical Specification are intended to be descriptive only and not restrictive: till stated otherwise in Technical Specifications or Bid Data Sheet. The Bidder may substitute alternative standards, brand names, and /or catalogue numbers in its bid, provided that demonstrates to the Procuring agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications. |
| 9. Bid Security | 9.1 The bid security is required (in the amount specified in the bid data sheet) to protect the Procuring agency against the risk of Bidder's conduct, which would warrant the security's forfeiture The bid security shall be denominated in the currency of the bid: <ul style="list-style-type: none"> a) At the Bidder's option, be in the form of either demand draft/call deposit from a reputable Bank; b) Be submitted in its original form: copies will not be accepted; Remain valid for a period of at least 14 days beyond the original validity period of bids, or at least 14 days beyond any extended period of bid validity.
Bid security shall release to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired. 9.2 The successful Bidder's bid security shall be discharged upon the Bidder signing the contract, and furnishing the performance security. 9.3 The bid security may be forfeited: 9.4 <ul style="list-style-type: none"> a) if a Bidder withdraws its bid during the period of bid validity or b) In the case of a successful Bidder, if the bidder fails: <ul style="list-style-type: none"> (i) to sign the contract in accordance or to furnish performance security. |

	SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS	RENOVATION OF STATIONS
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| 10. Period of Validity of Bids | <p>10.1 Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Procuring agency. A bid valid for a shorter period shall be rejected by the Procuring agency as non responsive.</p> <p>10.2 In exceptional circumstances, the Procuring agency may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security shall also be suitable extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.</p> |
| 11. Format and Signing of Bid | <p>11.1 The Bidder shall prepare an original bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" as appropriate. In the event of any discrepancy between them, the original shall govern.</p> <p>11.2 The original bid shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract.</p> <p>11.3 Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.</p> |
| 12. Sealing and Marking of Bids | <p><u>SUBMISSION OF BIDS:</u></p> <p>The Bidder shall seal the original bid in envelope, duly marking the envelope as "ORIGINAL BID". The envelopes shall be addressed to the Procuring agency at the address given in the BIDS, _</p> <p>If the outer envelope is not sealed and marked as required, the Procuring agency shall assume no responsibility for the bid's misplacement or premature opening.</p> <p>Bids must be received by the Procuring agency at the address specified in Bid Data Sheet, not later than the time and date specified in Bid Data Sheet.</p> |
| 13. Deadlines for submission of bids | <p>The Procuring agency may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents, in such case all rights and obligations of the Procuring agency and bidders previously subject to the deadline will thereafter be subject to the deadline.</p> |

 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES	SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS	RENOVATION OF STATIONS
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| 14. | Late Bids | 14.1 | Any bid received by the Procuring agency after the deadline for submission of bids prescribes by the Procuring agency shall be rejected and returned unopened to the Bidder. |
| 15. | Modification & Withdrawn of Bids | 15.1 | <p>The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Procuring agency prior to the deadline prescribed for submission of bids.</p> <p>No bid may be modified after the deadline for submission of bids.</p> <p>No bid may be withdrawn in the interval between the deadline for submission of bids and the expiry of the period of bid validity.</p> <p>Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security.</p> |
| 16. | Opening of Bids by the Procuring agency | 16.1 | <p>The Procuring agency shall open all bids in the presence of bidder's representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register/attendance sheet evidencing their attendance.</p> <p>The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presences or absence of requisite bid security and such other details as the Procuring agency, at its discretion, may consider appropriate, will be announced at the opening.</p> |
| 17. | Clarification of Bids | 17.1 | <p>During evaluation of the bids, the Procuring agency may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.</p> |
| 18. | Evaluation Comparison of Bids | 18.1 | <p>The Procuring agency will evaluate and compare the bids which have been determined to be substantially responsive. The Procuring agency's evaluation of a bid will be on delivery to consignee's end inclusive of all taxes, stamps, duties, levies, fees and installation and integration charges imposed till the delivery location and shall exclude any allowance for price adjustment during the period of execution of the contract.</p> |
| 19. | Contacting the procuring agency | 19.1 | <p>No Bidder shall contact the procuring agency on any matter relating to its bid, from the time of bid opening to the time the announcement of Bid Evaluation Report. If the Bidder wishes to bring additional information to the notice of the procuring agency, it should do so in writing.</p> |

	SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS	RENOVATION OF STATIONS
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| 20. Post – Qualification | <p>20.1 In the absence of prequalification, the procuring agency may determine to its satisfaction whether that selected Bidder having submitted the lowest evaluation responsive bid is qualified to perform the contract satisfactorily.</p> <p>20.2 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Claus-7 as well as such other information as the Procuring agency deems necessary and appropriate.</p> <p>20.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Procuring agency will proceed to the next lowest evaluated bid to perform satisfactorily.</p> |
| 21. Award Criteria | <p>21.1 The Procuring agency will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid/ Most Advantages Bid provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.</p> |
| 22. Procuring Agency's right to vary quantities at the time of award | <p>22.1 The Procuring Agency reserves the right to increase/decrease the quantity of the required items and /or purchase part items already tendered either in full or in part. The Procuring Agency reserves the right to accept or reject any or all of the Tenders; divide business amongst more than one bidder.</p> |
| 23. Procuring agency's Right to Accept any Bid and to Reject any or All Bids | <p>23.1 Subject to relevant provisions of SPP Rules 2010 (Amended 2019), the Procuring agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award.</p> <p>23.2 Pursuant to Rule 45 of SPP Rules 2010 (Amended 2019), Procuring agency shall hoist the evaluation report on Authority's web site, and intimate to all the bidders three days prior to notify the award of contract.</p> |
| 24. Notification of Award | <p>24.1 Prior to the expiration of the period of bid validity, the Procuring agency shall notify the successful Bidder in writing, that its bid has been accepted.</p> |

- 24.2 Upon the successful Bidder's furnishing of the performance security pursuant to ITB Clause 26, the Procuring agency will promptly notify each unsuccessful Bidder and will discharge its bid security.
- 25. Signing of Contract**
- 25.1 At the same time as the Procuring agency notifies the successful Bidder that its bid has been accepted, the Procuring agency will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
- 25.2 Within fourteen (14) days, or any other period specified in BDS, of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Procuring agency.
- 26. Performance Security**
- 26.1 Within seven (07) days, or any other period specified in BDS, of the receipt of notification of award from the Procuring agency, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents, or in another form acceptable to the Procuring agency.
- 26.2 Failure of the successful Bidder to comply with the requirement of ITB Clause 25 or ITB Clause 26.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Procuring agency may make the award to the next lowest evaluated Bidder or call for new bids.
- 27. Corrupt or Fraudulent Practices**
- 27.1 The Government of Sindh requires that Procuring agency's (including beneficiaries of donor agencies' loans), as well as Bidders/Suppliers/Contractors under Government-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the SPPRA, in accordance with the SPP Act, 2009 and Rules made there under:
- (a) **"Corrupt and Fraudulent Practices"** means either one or any combination of the practices given below;
- (i) **"Coercive Practice"** means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;

- (ii) **“Collusive Practice”** means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
- (iii) **“Corrupt Practice”** means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
- (iv) **“Fraudulent Practice”** means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- b) **“Obstructive Practice”** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.

General Conditions of Contract

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) **“The Contract”** means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) **“The Contract Price”** means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- (c) **“The Goods”** means all of the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Procuring agency under the Contract.
- (d) **“The Services”** means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
- (e) **“GCC”** mean the General Conditions of Contract contained in this section.
- (f) **“SCC”** means the Special Conditions of Contract.
- (g) **“The Procuring agency”** means the Sindh Public Procurement Regulatory Authority (SPPRA), Government of Sindh.
- (h) **“The Supplier”** means the individual or firm supplying the Goods and Services under this Contract.
- (i) **“SPP Rules 2010”** means the Sindh Public Procurement Rules 2010 (Amended 2019).
- (j) **“Day”** means calendar day.

2. Standards

The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.

3. Patent Rights

The Supplier shall indemnify the Procuring agency against all third- party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Islamic Republic of Pakistan.

4. Performance Security

- 4.1 Within seven (07) days, or any other duration as specified in SCC, of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring agency the performance security in the amount specified in SCC.
- 4.2 The proceeds of the performance security shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 4.3 The performance security shall be denominated in the Pak rupees and shall be, pay order, call deposit as, provided in the bidding documents or another form acceptable to the Procuring agency;
- 4.4 The performance security will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

5. Inspections and Tests

- 5.1 The Procuring agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring agency. The Procuring agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- 5.2 Should any inspected or tested Goods fail to conform to the Specifications, the Procuring agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring agency.
- 5.3 The Procuring agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Manufacturer.

5.4 Nothing in GCC Clause 5 shall in any way release the Supplier from any warranty or other obligations under this Contract.

6. Packing

The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage.

**7. Delivery and
Documents**

Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping/ transportation and/or other documents to be furnished by the Supplier are specified in SCC.

8. Insurance

No need of Insurance for Local Supplies, However Supplier is responsible to deliver the goods in perfect condition to the end user.

9. Transportation

The Supplier is required under the Contract to transport the Goods to a specified place of destination and shall be arranged by the Supplier, and related costs shall be deemed to have been included in the Contract Price.

**10. Incidental
Services**

10.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract;

11. Warranty

The Supplier warrants that the Goods supplied under the Contract are new, unused, of desired models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

12. Payment

The firm should submit stamp duty as per Government Rule before execution of work. Within 30 days after the issuance of inspection certificate and consignee's receipt certificate as mentioned in SSC clause 6.

If the supply is not according to the specifications or unsatisfactory, the Contract will be rejected and cancelled at the risk and cost of Firm

If the firm fails to execute the contract/supply order as per condition, action will be taken against them which may be their black listing and Earnest Money. / Security Deposit will be forfeited.

In case of late delivery @ 0.1% per day will be charged on bid amount deducted from the bill, but not more than 10% of contract value. The currency of payment is Pak. Rupees. There will be no Advance Payment by the Procuring Agency.

13. Price

Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid,

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

14. Contract Amendments

15. Termination for Default

The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring agency pursuant to GCC Clause 16; or
- (b) If the Supplier fails to perform any other obligation(s) under the Contract.

If the Supplier, in the judgment of the Procuring agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

**16.
Liquidated
Damages**

Subject to GCC Clause 19, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring agency may consider termination of the Contract pursuant to GCC Clause 18.

**17. Resolution
of Disputes**

Resolution of dispute shall be through Mechanism for Redressal of Grievances as provided in the rules or through Arbitration Act 1942.

**18. Governing
Language**

The Contract shall be written in English language all correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

**19. Applicable
Law**

The Contract shall be interpreted in accordance with the SPP Rules 2010 (amended 2024).

20. Taxes

Supplier shall be entirely responsible for all taxes, duties (including stamp duty), license fees, etc., incurred until delivery of the contracted Goods to the Procuring agency.

BIDDING PROCEDURE

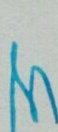
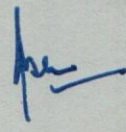
Bids should be submitted on EPADS system in accordance with instructions and bidding procedure shared in this document. Bids are invited on EPADS system as per Single Stage – One Envelope Procedure in accordance the Sindh Public Procurement Rules, 2010 (Updated 2024).

INSTRUCTIONS TO BIDDERS

1. Bidder must submit the bid electronically on EPADS -
2. The bidder must submit the bid security before the opening time of the tender. The bid security must be sealed in a separate envelope.
3. Bidder must read all the contents of invitation for bid / notice inviting tender as well as the bidding documents.
4. Bidder must ensure that the bid form is filled in all respect, without any confusion.
5. There should not be any over-writing, double writing, crossed, additional conditions.
6. Rates/Prices are to be quoted clearly in digits as well as in words in Pak Rupees.
7. Each document/paper submitted by the bidder shall be signed/stamped by the bidder on the face of the document.
8. Conditional bids, telegraphic bids, bids not accompanied by bid security of required exact amount and form, without tender fee, bids received after specific date and time and bids of blacklisted firms shall be treated as rejected / non-responsive.
9. Bids shall be submitted in accordance with Single Stage – One Envelope Procedure.
10. Bidder shall examine the bid eligibility criteria and qualify the proposal accordingly.
11. No alternate bid will be considered.
12. Bidder may participate in different stations as the turnkey based project so will be evaluated accordingly. If any bidder fails in any segment like civil, electrical, plumbing or etc may declared as disqualify.

MANDATORY DOCUMENTS (KNOCKOUT CLAUSE):

1. Registration certificates with NTN, FBR, SRB and STRN/SST
2. Tender Receipt issued by the SIEHS Commercial Department against tender Fee of Rs. 3000 in shape of Pay order should be in favor of Sindh Integrated Emergency and Health Services (NTN# 4979065-0). PEC Registered firm
3. Bidder must be available on List of Active Tax Payers" of FBR (for Income Tax) and GST/SRB websites with active status.
4. Bidder must have at least PEC C4 category License
5. The bidder must have at least 3 years of experience in the relevant/similar field pertaining to supply of goods /services in same nature contract and evidence of Purchase orders in any Govt / Semi Govt / Autonomous Body.
6. Average annual turnover for the last 3 years should not be less than the 100 million continuously for this tender and same shall be reflected from the FBR tax returns.
7. Affidavit on Rs.100 stamp paper that the firm is not blacklisted & not involved in any active litigation.

Any bid unable to qualify OR fail to submit documents required for mandatory qualifying requirement shall be declared as “UNRESPONSIVE” and eventually disqualify for next part of technical evaluation and financial proposal(s) of unresponsive bid(s) shall be returned “UN-OPENED.”

BID PRICE

1. The bid offer quoted should be final and clearly written / typed without any ambiguity.
2. The bid price should include all the government taxes, as per prevailing taxation rates of provincial / federal / local governments etc. (e.g., SST/GST, Income Tax, Withholding Tax etc.).
3. If there is no mention of taxes or calculation error, the offered/quoted price will be considered as inclusive of all prevailing taxes/duties. The benefit of exemption from or reduction in the Income Tax / SST / GST or other taxes during the contract period shall be passed on to SIEHS.
4. The bidder shall deem to have obtained all related information as to the requirements thereto which may affect the bid offer / price if required.

VALIDITY OF BIDS

Bids shall remain valid for ninety (90) days w.e.f. date of opening of technical proposals. The bids without or less than Ninety (90) days validity will be rejected.

DEADLINE FOR SUBMISSION OF BID

Bids must be uploaded electronically on EPADS portal no later than the time and date provided in the bid data sheet. Any bid submitted late on the EPADS after the deadline for submission of bids will not be entertained by the EPADS system. Bidders are advised in their own interest to take all precautionary measures for uploading the bids well before the submission deadline. In case of difficulty, the bidder can seek understanding from EPAD system helpline UAN: 051-111-137-237 Monday to Friday 9 am to 5 pm.

LANGUAGE OF BIDS

The bid prepared by the bidder, as well as all correspondence and documents relating to the bid and communication exchange between the bidder and the SIEHS shall be in English. Supporting documents and printed literature furnished by the bidder may be in another language, provided these are accompanied by an accurate translation of the relevant passages in English, in which case for purposes of interpretation of the bid, the translated version shall prevail.

BID SECURITY

1. The bid must be accompanied by a bid security in shape of a Demand Draft /Pay Order of 2% of the total contract value inclusive of taxes in favor of “Sindh Integrated Emergency and Health Services” on account of Bid Bond (refundable) valid for a period of 28 days beyond the bid validity date. For unsuccessful parties the bid security will be refunded within a period one month after the finalization of successful bidder.
2. The bid security shall be attached with the proposal.
3. Any bid not accompanied by an acceptable bid security shall be rejected by the SIEHS as non-

responsive.

4. The bid security of the unsuccessful bidders will be returned upon award of contract to the successful bidder or on expiry of validity of bid security whichever is earlier.
5. The bid security of the successful contractor will be returned only when the bidder furnishes the required performance security and signed relevant contract agreement. The successful bidder can adjust the bid security towards performance guarantee, in this situation, the successful bidder shall submit the balance amount on account of performance guarantee.

PENALTY

In case of any delay in the supply of parts beyond the delivery date as mentioned in the Purchase Order or agreement (whichever is latest), the supplier may be charged @ 0.33% per day for each day delayed on the value of items delayed.

PERFORMANCE SECURITY

The successful bidder shall submit the 5% performance security / guarantee in the amount specified in the bid data sheet in the shape of pay order or demand draft in favor of SIEHS issued by a scheduled bank in Pakistan valid for a period of thirty (30) days beyond the date of completion / expiry of the contract. No interest will be paid on performance security.

REFUND OF PERFORMANCE SECURITY

The performance security / guarantee shall be returned after expiry of contract and settlement of all claims and the defect liability period. This amount will be returned to the supplier after satisfactory completion note from SIEHS.

FORFEITURE OF PERFORMANCE SECURITY

1. In the event of failure to provide items/services as per contract agreement / work order within the stipulated period, the performance security may be forfeited.
2. In that event, acquiring of the said items/services may be taken from the next lowest bidder vide the same work order at contractor's risk and cost without any farther reference, so that the loss incurred would be recoverable from the performance security of the said contractor or from any sum due of which may become due to the contractors.
3. If any equipment / instrument or property of SIEHS or its representative / landlord / donor/ is damaged by the representative of the successful bidder, cost of the same will be deducted from the performance security money / pending bills of the successful bidder / contractor.

APPLICABLE LAW

The Contract shall be governed by the Laws of Pakistan and the Courts of Karachi - Pakistan shall have exclusive jurisdiction.

BID DATA SHEET

Company name	Sindh Integrated Emergency & Health Services (SIEHS)
Postal address / Head office	Plot No. 43-15/K, Block 6, P.E.C.H.S, Karachi, Pakistan.
Procurement Focal person	Attention to : Mr. Azeem Hassan Khan & Muhammad Taha Khan
Email address	procurement@siehs.org
Contact number	021-111-111-823, Ext 2510 & 2005
Pricing mechanism	The price shall be fixed during the contract period.
Bid security	Amount of bid security should be 2% of the total bid price inclusive of taxes.
Bid validity	Bid validity period shall be 90 days after opening of technical proposal
Deadline for bid submission on EPADS system	Thursday 21st August 2025 at 10:30 AM Thursday 28 th August 2025 at 10:30 AM
Bid security	2% of the value <ul style="list-style-type: none"> Pay order image to be uploaded on EPADS system Hardcopy of Pay order to be submitted at SIEHS office before 21st August 2025 at 10:30 AM 28th August 2025 at 10:30 AM
Performance Security	5% of the total contract value inclusive of taxes as per agreed timeline. This amount will be returned to the supplier upon completion of the supplies and defect liability / warranty period as stated through warranty terms in the submitted proposal.

BID EVALUATION CRITERIA - 100 Marks

THE BIDS SHALL BE EVALUATED ON QUALITY COST BASED METHOD.

1. The Bids shall be evaluated on complete Lot / Group / Package basis reflected in the Bid Form / Price Schedule. Bids for partial / limited item(s) shall not be considered and rejected.
2. The following merit point system for weighing evaluation factors / criteria will be applied for proposals.
3. Bidders achieving minimum 70% score, will be considered as qualified bidder(s) to proceed for the financial scoring. Bidder receiving less than 70% scoring in primarily evaluation will be disqualified. Documentary evidence should be provided for appropriate evaluation process of bids.

Annexure - A: Primarily Evaluation Criteria

Annexure - A: Primarily Evaluation Criteria		
S. No.	Description	Marks
1	Registration of Firm in PEC	25
	i. 10 x Years & above = 25 points	
	ii. 6 to 9 Years = 20 points	
	iii. more than 2 years less than 05 years = 15 points	
	iv. Less than 2 years = 10 points	
	(Documentary evidence must be attached, e.g., PEC along with NTN Registration, STRN etc..)	
2	Specific Experience	25
	Completed projects of similar nature at least 3 not less than Rs. 30 million project cost.	
	i. Minimum 5 Points for 1 x project. (15)	
	ii. For every additional project, 1 points will be awarded per project, up to a maximum of 25 points.	
	(Certificates/work orders/ contracts/Tender BER from departments / clients should be attached for claiming points)	
3	General Experience of working outside Karachi	25
	Existing General Projects other than specific already completed by firm not less than the Rs. 10 Million project cost.	
	(Certificates from departments / clients should be attached for claiming points)	
4	Current / on-going Projects.	25
	Maximum 3 x projects having a work order for each project of Rs. 10 million or more will be considered for this category. (Certificates from departments / clients should be attached for claiming points)	
	(Please note that only 3 projects will be considered in this category)	
Note: Firms must obtain 70% points to qualify for opening of financial bids as detailed in the above table.		

Financial Proposal:

After the technical proposal, the financial proposal of those bidders will be considered who secured 70% or more.

30% of the financial Proposal will be considered.

Least Price Calculation:

The formula to calculate the marks for the price by the bidders other than lowest bidder is given below:

$[Lowest\ quoted\ price \div Next\ higher\ proposed\ price\ of\ the\ competing\ bidder] \times allocated\ financial\ score$

After the cumulative of both Technical & financial marks ,the tender will be awarded who secured the highest marks.

Schedule of Requirement

- a) Renovation of Khairpur Station (Turnkey Based Project)
- b) Renovation of Radhan Station (Turnkey Based Project)
- c) Renovation of Bado Jabbal Station (Turnkey Based Project)
- d) Renovation of Dadu Station (Turnkey Based Project)
- e) Renovation of Matiari Station (Turnkey Based Project)
- f) Renovation of Shaheed Benazeerabad (Turnkey Based Project)
- g) Renovation of North Nazimabad Station (Turnkey Based Project)
- h) Renovation of Daur Town Station (Turnkey Based Project)

Note: BOQs are attached at the end of the tender documents.

BID FORM / PRICE SCHEDULE / FINANCIAL PROPOSAL

RENOVATION OF STATIONS FOR ADMINISTRATION DEPARTMENT
(To be submitted on Official company letterhead duly Signed & Stamp)

To:

The Procurement Committee (SIEHS)

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, for the above contract, we, the undersigned, offer to supply, deliver and test in conformity with the said bidding documents (Technical and Financial proposals) are submitted herewith separately as per your requirement.

We undertake, (if our bid is accepted) to complete the supply/service in accordance with the delivery time mention in our proposal documents. If our bid is accepted, we will provide the performance security in the sum equivalent to 5% of the Contract Price i.e., Rs___for the due performance of the contract.

S. No	NAME OF STATION	Civil works	Electrical Works	Plumbing	AC Work	Total Amount
a)	Renovation of Khairpur Station					
b)	Renovation of Radhan Station					
c)	Renovation of Bado Jabbal Station					
d)	Renovation of Dadu Station					
e)	Renovation of Matiari Station					
f)	Renovation of Shaheed					

	Benazeerabad Station					
g)	Renovation of North Nazimabad Station					
h)	Renovation of Daur Town Station					

Total bid price with tax in words _____

Delivery timeline for supply of complete order _____

- The above rates should be inclusive of all taxes (WHT/SRB/GST)/duties/delivery/labor charges etc.
- Above prices should be inclusive of all requirements mentioned SOW.
- Validity of offer/proposal: 90 days from date effective of bid opening.

Note:

1. In case of discrepancy between unit price and total, the unit price shall prevail.
2. The timelines should be followed strictly; in case of delay the LD will be imposed.
3. Price quoted by the supplier shall be fixed during execution of this contract agreement.
4. SIEHS reserves the right to increase, decrease or cancel any item from the requirements.

Name: _____ CNIC#: _____

Signature: _____ Company stamp: _____

Submission of the bid by the bidder reflects the acceptance of the SIEHS terms and conditions.

LEGAL UNDERTAKING**Affidavit**

(Must be printed on Stamp Paper of Rs. 100/-)

We, M/s. _____ hereby undertake that:

- i. Our company is neither blacklisted nor suspended by any National / International, including Provincial and Federal Government Organization.
- ii. Any director or owner of our company is not awarded any punishment from any Court of Law.
- iii. We have submitted the correct and complete information along with our bid/offer.
- iv. If any document / information is found forged / engineered / false / fake / bogus at any stage OR any criminal proceedings found in any court of law during the contract period, SIEHS has the right to terminate our services immediately without assigning any reason and making any refund or payment and we may be declared as Blacklisted and the performance guarantee and payment, if any may be forfeited.

M/s. _____

Contact Person: _____

Address: _____

Tel. _____ Mobile _____

Email Address: _____

Signature _____ Date: _____

Bidder's Stamp:

ATTESTED BY NOTARY PUBLIC

ANNEXURE – 4 : SPPRA INTEGRITY PACT

(Must be printed on Company's Letterhead)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS.

Contract Number: _____

Dated: _____

Contract Value: _____

Contract Title: _____

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

Without limiting the generality of the foregoing, [_____] 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 Procuring Agency (PA), except that which has been expressly declared pursuant hereto.

[_____] **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 PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[_____] **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 PA under any law, contract or other instrument, be voidable at the option of PA.

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

Sindh Integrated Emergency & Health Services

[_____]

FORM OF CONTRACT – SPECIMEN DRAFT ONLY

Note: This is a draft specimen of the contract which will be customized based on the item / service of procurement as per the agreed terms between successful bidder and the company.

Tender reference XX - 2025

THIS AGREEMENT / CONTRACT is made at Karachi on _____, 2025

BETWEEN

M/s _____, a company having its registered office at _____, hereinafter called "Supplier / Service Provider", (which expression shall wherever the context so admits mean and include its successors-in-interest and permitted assigns) of the ONE PART.

AND

Sindh Integrated Emergency and Health Services, a section 42 not-for-profit company registered under the laws of the Islamic Republic of Pakistan and having its office at 43,15/K, Block 6 PECHS Razi Road, Karachi, hereinafter called "the **Company**" (which expression wherever the context so admits shall mean and include its successors-in-interest and assigns) of the OTHER PART.

M/s _____ and **Sindh Integrated Emergency and Health Services** are hereinafter collectively referred to as the "Parties" and individually as a "Party")

WHEREAS Sindh Integrated Emergency and Health Services is a section 42 not-for-profit company focusing on Health and Ambulance Operations based and operating in Pakistan.

AND WHEREAS the Supplier / Service Provider has agreed to provide goods / services and Company has agreed to take the goods / services as per the terms & conditions, scope of work (descriptions / specifications) as given in annexures of this agreement / contract.

NOW THEREFORE THIS AGREEMENT WITNESSETH;

Annexure A – General Terms and Conditions

Annexure B – Scope of Work

Annexure C – Price Schedule / Contract Price

IN WITNESS WHEREOF the parties hereto have set their respective hands through their nominated signatories on the day, month and year first above written.

For and on behalf of Sindh Integrated Emergency and Health Services

Signed by

(Name)_____	(Name)_____
(Signature)_____	(Signature)_____
(Designation)_____	(Designation)_____

WITNESSES:

(Name)_____	(Name)_____
(Signature)_____	(Signature)_____
(CNIC)_____	(CNIC)_____

For and on behalf of Successful bidder.

Signed by

(Name)_____

(Signature)_____

(Designation)_____

WITNESSES:

(Name)_____	(Name)_____
(Signature)_____	(Signature)_____
(CNIC)_____	(CNIC)_____

a) RENOVATION OF KHAIRPUR STATION

a1) CIVIL WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>EARTH FILLING WORKS</u>		
	Earth filling verandah subbase gravels for paver : Earth filling from approved borrow area 1st class earth to be filled without vegetation & also with proper ramming & compaction layer by layer no exceeding 6" as per instruction of engineer in-charge.AASHTO standard compaction		
a)	Earth filling Inside Area 4000 sqft	Job	1
2	<u>TERMITE PROOFING</u>		
	Providing and carrying out termite proofing using FIPROKILL/ BIFLEX / DURSANE or equivalent with a solution of 1 gallon of chemical to 50 gallons of water, sparing this solution @ 2 liters per sq. meter area (or liters per 10.76 sft. Area) with a pressure ensuring at least 3" penetration in the soil of the area to be treated. The contractor will provide a guarantee for a period of ten years against infestation of termite in the shape and mode approved by the Engineer, stating that in case of infestation, additional treatment will be provided by the contractor at no extra cost to the Client (horizontal & Vertical).	Sft.	2,500
3	<u>PAVER BLOCK WORK</u>		
	Providing and laying 60mm thick factory made 1st class cement concrete interlocking paver block of M -40 grade or 6000psi made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of SIEHS Nominated Person.	Sft.	4,000
4	<u>PLASTER WORK</u>		
	REPAIR WORK PLASTER:- Providing and laying 1/2" thick 1:3 cement sand plaster on chipping, including providing neeru finish to a thickness of about 1.5mm finished smooth with steel trowel including preparation of surface ,curing etc at all levels /heights & locations complete as specified and directed by SIEHS Nominated Person.Brand (Lucky, Falcon or equivalent duly approved by SIEHS nominated person)		
a)			
b)	Exterior Plaster work		
c)	1/2" thick Plaster Work	Sft.	1,500
5	<u>WATER PROOFING</u>		

	Roof Waterproofing with Full Features Treatment provides a very effective barrier against moisture, leakage seepage and direct rain water. Treatment involves proper cleaning and washing of roof. Proper chemical application and spreading of canvas. Consecutive chemical coating along with canvas provides extremely fine surface and best resistance to rain water. Details as under Preparation: a. Proper cleaning of the roof b. Proper washing of the roof c. Securing scrap in bags without messing up Roof Damage & Cracks Repair d. Proper cement repair of the patches where necessary e. Complete & proper cracks treatment f. Proper filling of cracks joints leaks etc. g. Cloth bandage on all major cracks 4" wide Strip h. Complete roof damage repair & filling of all cracks i. Application of thick coating on bandage for covering Application Procedure j. Application of 1st primer coating k. Application of 2nd coat for surfacing l. Application of 3rd coat for complete covering Final Waterproofing Coating m. Application of 4th coat for waterproofing n. Application of 5th coat for final waterproofing o. Application of 6th extra coat for best results Complete waterproofing complete in all respects Warranty 05 Years		
a)	Roof	Sft	2,500
6	<u>P.C.C FLOORING FOR PAVER AREA</u>		
	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer		
i)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sft	4,000
7	<u>PORCELAIN TILE ON PANTRY AND BATH FLOOR AND WALL (12"X24")</u>		
	Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 2" to 3" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as per drawing and as directed by the Architect.		
a)	Flooring (12" x 24") (Charcole For Floor) For Material	Sft	2,500
b)	Flooring (12" x 24") (Charcole for Floor) For Labour	Sft	2,500
c)	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sft	4,000
d)	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sft	4,000
8	<u>FALSE CEILING</u>		
a)	<u>FALSE CEILING (Gypsum)</u>		
	Provide and install 24"X 24" False Ceiling (Gypsum DFB Brand) with Aluminum suspension system, complete with instruction by the Engineer (Design and Color approve by the Engineer.)	Sft	1,800
9	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		
	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	For Electrical, Pantry and Toilet Area	Sft	
b)	Internal Paint (Oil Base Matt Finish) For Labour	Sft	2,500

10	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as shown on the drawings specifications and/or as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sft	7,000
b)	External Paint For Labour	Sft	
11	<u>PVC PANELS WALL CLADDING</u>		
	Supply and install 10"x9' PVC Panels wall cladding with 08 mm thickness with complete in all respects including rafters and all its accessories design and color as per Engineer in charge.	Sft	4,000
12	<u>DOOR FRAME (INTERNAL DOOR)</u>		
	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as per drawing and as directed by the Engineer.		
	5" x 2"	Rft	252
13	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.		
14	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type.		
	Door Lock	Nos	14
15	<u>DOOR COLSER</u>		
	Provide and install approved Door Closer.		
	Door Closer	Nos	14
16	<u>ALUMINUM WINDOWS</u>		
	Providing, fabricating and fixing in position heavy duty deluxe section approved color anodized aluminum local extruded Pak cable or equivalent (thickness of section 2mm minimum) or size using 4" wide section, 6 mm distortion free approved glass with gasket neoprene channels. Aluminum surfaces shall be anodized in approved color finish and shop protected including all accessories, fittings, rubber, seals, neoprene weather strips between frame and wall and frame edge trimming, gasket, screws, fly screen etc. and approval of the Engineer complete in all respect.		
i)	Window 4'-0"x 7'-0"	Sft.	364
ii)	Window 2'-0"x 7'-0"	Sft.	56
iii)	Toilet Side Window 3'-0" x 4'-0"	Sft.	60
17	<u>SECURITY GRILL FOR AC OUTER UNIT</u>		
	<u>Wrought Iron Grill</u>		
i)	Providing and Fixing M.S Security Grills to windows, comprising of 1/2" square bars @ 6" c/c 16 gauge, welding, grinding, finishing, rubbing 3 coat of enamel paint (KANSAI/ICI,NIPPON,BERGER) red oxide before paint. Complete in all respects, as per standardized design and /or as shown in drawing.		
	AC Outer Unit Grill	Sft	50
18	<u>CC FLOORING FOR DISINFECTION AREA</u>		

	Make CC 1:2:4, 6" thick slab 10,000psi for Ambulance Disinfectant Floor 12'x16' & slop ramp area 12'x6' complete in all respect as directed by engineer.	Cft.	264
19	<u>GRANITE (TAIWAN GREY GRANITE)</u>		
	Provide and laying 3/4" thick factory polished granite door/window Sills, Thresholds and Borders, Steps for stair case, straight and curve as per site requirement, single piece, as directed by client, fixed 1:2 cement and mortar, color chemical grout including final rubbing finishing and polishing bull nosing carborundum grove where required etc. complete with all respect		
i)	On Main Entrance Steps, Risers and Platform Band	Sft.	40

a2) PLUMBING WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLYN PIPING</u>		
	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or susp[ended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	250
ii)	3/4" dia	Rft	300
iii)	1" dia	Rft	150
2	<u>VALVE</u>		
	Providing and installing ball valves of following niminal dia, kitz make, including jointing, fitting, painting, texting, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	5
ii)	1" dia	Each	5
3	<u>SOIL & WASTE WATER SYSTEM</u>		
	<u>uPVC Sewage Pipe.</u>		
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	150
	4" dia	Rft	120
4	<u>FLOOR DRAIN</u>		


	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respect.	Each	6
5	<u>CLEAN OUT</u>		
	Providing, fixing and texting 4" dia uPVC Clean-Out (Floor / ceiling type) with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout. Complete in all respect.	Each	4
6	Providing and fixing CI Gullin trap with chamber and cover complete in all respect.	Each	4
7	<u>TOILET FITTINGS & FIXTURES</u>		
	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	4
8	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	2
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	5
10	<u>KITCHEN SINK</u>		
	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	1
11	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	5
b)	For Kitchen Sink	Each	1
12	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	5
13	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	5


14	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	5
15	<u>TOWEL RAIL</u>		
	Providing and fixing heavy duty SS finish towel rail Master, complete in all respects.	Each	5
16	<u>MIRROR</u>		
	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	40
17	<u>WATER COOLER</u>		
	Provide and install Heavy Duty Electric Water Cooler full Steel Body (Pel / Hier / Dawalance) as approved with proper fitting of water supply line and drain system as per direction of the Architect.	Nos	1
18	<u>MANHOLES</u>		
	Providing and making of brick masonry (1:5) cement sand mortar manhole of internal size as below as per site requirement including excavation PCC (1:4:8) 4" thick under foundation and bed, making benching with cement concrete (1:2:4) plastering (1:3) cement sand mortar inside and outside & two coats of bitumen painting on outer wall, RCC top slab, including reinforcement steel, 18" dia, heavy duty C.I manhole cover of C.I (NPC, CME Engg). complete in all respect.		
a)	Size 2' x 2'	Each	8
19	Providing and fixing approved quality super Tuff water tank of 2000 gallons capacity including connections etc. complete	Each	1
20	<u>GEYSER</u>		
	Providing, installing, testing and commissioning electric geyser of 8 gallons capacity including all necessary fittings, valves etc. complete in all respects.	Each	1
21	<u>BORING</u>		
	Making Boring for water with supply line & motor	Each	1

a3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
	<u>SECTION - A</u>		
	<u>WIRING INSTALLATION</u>		
1.	Providing and installing light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	60
b)	Light point from point to point.	Nos.	35
c)	Revolving fan point	Nos.	0

d)	Ceiling fan point	Nos.	8
e)	Exhaust fan point	Nos.	5
f)	Circuit wiring from lighting distribution board- L to switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	11
2.	Circuit wiring from lighting distribution board for switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	5
2.1	Providing and installing UPS light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	6
b)	Light point from point to point.	Nos.	8
c)	Revolving fan point	No.	0
d)	Ceiling fan point	Nos.	2
3	Providing and Circuit wiring of following type of Emergency Lighting + Exit Lighting controlled through direct distribution board with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	4
a)	Light point from point to point.	Nos.	2
4.	Providing and installing of circuit wiring from DB for 10 A, Multi socket outlet with 3 x 2.5 sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit concealed/surface mounted with all accessories, sheet steel back boxes with brass earth terminals, and providing and installing 10A Multi socket outlets.	Nos.	6
5.	Providing and installing of circuit wiring from DB to 15A 3 pin switch socket outlets (Duplex or equivalent) wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Duplex or equivalent)	Nos.	3
6.	Providing and installing of circuit wiring Wifi Device from DB to 15A 3 pin switch socket outlets (Simplex) wired with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Simplex)	Nos.	5
7	Providing and installing of circuit wiring (For Motor) from L.DB to 16A 3 pin switch socket outlets wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 16A specified switch socket outlet.	No.	2
8	Providing and wiring of following type of Exhaust Fan controlled through direct distribution board with 3 x 1.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	5
9	Providing & installing wiring for split units from distribution board to respective unit/load break switch with 3 x 6sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit, complete in all respects.	Nos.	3
10	Supply & installation of Floor box of 16 SWG.G.I. Sheet having cover of 12 SWG. Suitable for 1No. 5 Amps Socket, 2 No. 15 Amps. Socket (Dup), 1 No. data outlet , 1 No. Telephone outlet	No.	5
	<u>SWITCHES & SOCKETS</u>		

 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES		SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per design drawings.				
11.1	Four gang switch plate	Nos.	12		
11.2	Ten gang switch plate	Nos.	12		
11.3	5A, 3 Pin switch socket.	Nos.	10		
11.4	15A, Multi socket.	Nos.	10		
11.5	15A 3 Pin switch socket	Nos.	5		
11.6	16A 3 Pin switch socket.	No.	5		
11.7	Fan Dimmer	Nos.	13		
12	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.	1		
13	<u>GI PIPE</u>	-	-		
13.1	Supply and installation of following size of GI conduit including all accessories. Complete in all respect.				
13.2	25mm dia G.I pipe	Rft.	0		
	<u>SECTION - B</u>				
	<u>IT NETWORKING</u>				
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.	20		
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.	20		
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet steel back box.	Nos.	0		
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	20		
5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	1		
6.	Providing and installing of front cable management.Complete with all fixing accessories.	Nos.	1		
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1		
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Job	1		
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brand Rujee)	Nos.	1		
9	Installation of Attendance Machine Completed with all fixing accessories.	No.	1		
10	Providing and Installation and connecting up Data Rack 18U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1		
11	installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord.				
a)	1.0 m Long (patch panel end) 3M	Nos.	30		
b)	3.0 m Long (work station end) 3M	Nos.	10		
12	Complete termination & testing of each node.	Job	1		
	<u>SECTION - C</u>				

 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES		SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
	<u>CCTV SYSTEM.</u>				
1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification.	Nos.	14		
1.1	Providing and Installation of Network Camera indoor. Resolution: 2 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	6		
1.2	Providing and Installation of Network Camera outdoor. Resolution: 4 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	4		
1.3	Providing and Installation of P.O.E switch 16 Port Brand D-Link	Nos.	2		
1.4	Providing and Installation of Iron Angle and PVC box for outdoor cameras	Nos.	4		
2	Proving and Installation of NVR 16 Channels including 4TB Surveillance Hard Drive Brand Dahua	Nos.	1		
3	Testing & Commissioning of CCTV system.	Job.	1		
	<u>SECTION - D</u>				
	<u>LIGHT FIXTURES & FANS</u>				
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.				
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	12		
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval.	Nos.	40		
c)	<u>Fixture Type - C</u> Surface type TMS Light with 2 x 40 watt. As per architect approval.	Nos.	0		
d)	<u>Fixture Type - D</u> LED Rope Light with 1 x 8 watt. As per architect approval.	Rft.	0		
e)	<u>Fixture Type - E</u> LED Panel Light with 45 watt. As per architect approval.	Nos.	0		
f)	<u>Fixture Type - F</u> Emergency lights with 8 W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	0		
g)	<u>Fixture Type - G</u> Emergency Exit Light with 10W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	10		
h)	<u>Fixture Type - H</u> Insects killer. As per architect approval.	Nos.	0		
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	2		
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	8		
4.	Supply, installation & connection of Revolving fan, complete with all mounting accessories.	Nos.	0		
5.	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	5		

6.	Supply, installation & connection of 24" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	0
	<u>SECTION - E</u>		
	<u>SWITCHGEAR</u>		
	<u>MAIN DISTRIBUTION BOARD</u>		
	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.		
1.	Supply & install 150 A TP Box IP-65	Pcs	1
2.	Supply & install Main DB 12"x18"	Pcs	1
3.	Supply & install Change over 50 A MDB	Pcs	1
4.	Supply & install Under Voltage Trip (UVT).	Pcs	1
5.	Supply & install Over Voltage Trip (OVT)	Pcs	1
6.	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1
	<u>SECTION - F</u>		
	<u>MAIN/SUB-MAIN CABLES</u>		
	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.		
1.	<u>From Wapda Meter to Main DB</u>		
a	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	400
2.	<u>From Gen. Set # 1 to Generator Change Over</u>		
a	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	100
	<u>SECTION - G</u>		
	<u>EARTHING</u>		
1.	Supply. Installation & Testing of EFE-T Chemical Grounding System with 19mm dia having Heavy-duty Copper Rod 10 Ft. long filled with Soil Conditioning Material with 6" x 25 Ft. Deep Boring with heavy duty PVC Put within Coaster Silver Cover for air-breathing with Brass Nuts and Bolts ready to use. up to Test Terminal. For Neutral Earthing the result should be less than 1 Ohm, Complete in all respects.	Nos.	1
2.	Same as item No.1 above, but 2.5sq.mm single core PVC wires in 1" dia. PVC pipe from earth pit to Computer / Equipment Distribution board	Rft.	150

a4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		
i	a) 1.0 Ton	Nos	1

ii	b) 1.5 Ton	Nos	2
2	Estimate additional copper piping with insulation for split units (charged as per final measurement on site). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.	Rft	0
3	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	3

b) RENOVATION OF RADHAN STATION

b1) CIVIL WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>DISMANTLING WORKS</u>		
	Dismantling / removing of existing constructed structures, fixtures, tools & equipment's with all necessary precautionary measures, stacking useable dismantled materials at designated place and disposal of surplus stuff disposing off debris from site as directed. from site, (block masonry, RCC slab, dado/ floor tiles, wooden/ glass door, windows, plaster, wooden partition, aluminum tile, false ceiling, roller shutter, AC / Electrical / Plumbing or any other item which is required to be demolished / removed but not mentioned above)		
a)	Dismantling Wall tile Inside Area	Job	1
b)	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places etc. complete in all respects as per standard specification, and entire satisfaction of The Engineer.	Sft.	4731
2	<u>TERMITE PROOFING</u>		
	Providing and carrying out termite proofing using FIPROKILL/ BIFLEX / DURSANE or equivalent with a solution of 1 gallon of chemical to 50 gallons of water, sparing this solution @ 2 liters per sq. meter area (or liters per 10.76 sft. Area) with a pressure ensuring at least 3" penetration in the soil of the area to be treated. The contractor will provide a guarantee for a period of ten years against infestation of termite in the shape and mode approved by the Engineer, stating that in case of infestation, additional treatment will be provided by the contractor at no extra cost to the Client (horizontal & Vertical).	Sft.	3600
3	<u>MASONRY WORK</u>		
	<u>Brick Masonry</u>		
	Providing and laying Brick masonry with first class solid burnt brick set in (1:4) cement sand mortar in super structure including scaffolding, curing, drilling for wall ties where brick work joins R.C.C columns, walls etc. Complete in all respects as per specifications to complete satisfaction of the Engineer in charge.		
a)	9" thick Brick Masonry	Sft.	4500
b)	4-1/2" thick Brick Masonry	Sft.	3500
4	<u>R.C.C. COLUMNS FOR MAIN GATE</u>		

	Provide and lay 2'x2' COLUMNS 7ft high using 1:2:4 reinforce, cement concrete etc. Complete with curing, leveling and anchoring with dowels embedded while casting including the cost of steel, Complete in all respects with plaster and paint finish etc and conforming to the requirements of the Engineer.		
a)	2'x2'x6' RCC Column	no	2
b)	3'x3'x6" RCC Foundation	no	2
c)	1/2" thick Plaster Work	Sft.	500
5	<u>MS IRON GATE</u>		
	Providing & Installation of main entrance iron gate 16 gauge square pipe frame size of pipe 1.5" inch X 1.5" inch with 18 gauge ms sheet complete with red oxide, paint, hinges & all accessories	Sft	315
5	<u>WATER PROOFING</u>		
	<p>Roof Waterproofing with Full Features Treatment provides a very effective barrier against moisture, leakage seepage and direct rain water. Treatment involves proper cleaning and washing of roof.</p> <p>Proper chemical application and spreading of canvas. Consecutive chemical coating along with canvas provides extremely fine surface and best resistance to rain water. Details as under</p> <p>Preparation:</p> <ol style="list-style-type: none"> Proper cleaning of the roof Proper washing of the roof Securing scrap in bags without messing up Roof Damage & Cracks Repair Proper cement repair of the patches where necessary Complete & proper cracks treatment Proper filling of cracks joints leaks etc. Cloth bandage on all major cracks 4" wide Strip Complete roof damage repair & filling of all cracks Application of thick coating on bandage for covering Application Procedure Application of 1st primer coating Application of 2nd coat for surfacing Application of 3rd coat for complete covering Final Waterproofing Coating Application of 4th coat for waterproofing Application of 5th coat for final waterproofing Application of 6th extra coat for best results <p>Complete waterproofing complete in all respects Warranty 05 Years</p>		
a)	Roof	Sft	4200
6	<u>INTERNAL PLASTER</u>		
	Provide and apply 3/4" thick, 1:4 ratio cement and sand, plaster in two coats to all internal faces of walls, columns, beams, ceilings, lintels, recesses and corners. Include hacking of R.C.C. Structure where necessary. Trowel to yield smooth finish with good workmanship. Include cost of scaffolding where required.		
a)	Internal Plaster	Sft.	7500
7	<u>P.C.C FLOORING FOR TILING AREA</u>		

	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer		
i)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sft	600
8	<u>PORCELAIN TILE ON PANTRY AND BATH FLOOR AND WALL (12"X24")</u>		
	Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 1 1/2" to 2" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as directed by the Architect.		
a)	Flooring (12" x 24") (Charcole For Floor) For Material	Sft	600
b)	Flooring (12" x 24") (Charcole for Floor) For Labour	Sft	600
c)	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sft	750
d)	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sft	750
9	<u>FALSE CEILING</u>		
a)	<u>FALSE CEILING (Gypsum)</u>		
	Provide and install 24"X 24" False Ceiling (Gypsum DFB Brand) with Aluminum suspension system, complete with instruction by the Engineer (Design and Color approve by the Engineer.)		
i)	For Electrical, Pantry and Toilet Area	Sft	4500
10	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		
	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	Internal Paint (Oil Base Matt Finish) For Material	Sft	6000
b)	Internal Paint (Oil Base Matt Finish) For Labour	Sft	6000
11	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sft	12000
b)	External Paint For Labour	Sft	12000
12	<u>PVC PANELS WALL CLADDING</u>		
	Supply and install 10"x9' PVC Panels wall cladding with 08 mm thickness with complete in all respects including rafters and all its accessories design and color as per Engineer in charge.	Sft	10000
13	<u>DOOR FRAME (INTERNAL DOOR)</u>		

	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as directed by the Engineer.		
	5" x 2"	Rft	450
14	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.	Sft	550
15	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type.		
	Door Lock	Nos	12
16	<u>DOOR CLOSER</u>		
	Provide and install approved Door Closer		
	Door Closer	Nos	4
17	<u>LAMINATION DOOR MAIN ENTRANCE AREA</u>		
	Fabricating, providing and fixing Double Leaf and double swinging/ Single Swing Lamination Door having solid Oak wood CHOKHAT (anti termite treated) solid frame and 1/2" thick double lamination (anti termite treated) SHUTTER pasted together with Oak wood lipping (anti termite treated) in natural color polish with machine including stainless steel 16 S.W.G kick plates and 16 S.W.G bumper sticker with 8" x 30" vision panel with solid Oak wood beeding and 8mm thick clear glass and also includes of floor machine (New Star Japan), all kinds of best quality hardware, locks, closer, handles, hold fasts, stopper and tower bolt. Complete in all respects as per engineer, specifications, with approved design 3" wide Beading.		
a)	Entrance Door 6'-0' x 7'-0'	Sft	42
18	<u>ALUMINUM WINDOWS</u>		
	Providing, fabricating and fixing in position heavy duty deluxe section approved color anodized aluminum local extruded Pak cable or equivalent (thickness of section 2mm minimum) or size using 4" wide section, 6 mm distortion free approved glass with gasket neoprene channels. Aluminum surfaces shall be anodized in approved color finish and shop protected including all accessories, fittings, rubber, seals, neoprene weather strips between frame and wall and frame edge trimming, gasket, screws, fly screen etc. and approval of the Engineer complete in all respect.		
i)	Window 5'-0"x 7'-0"	Sft.	350
ii)	Window 2'-0"x 7'-0"	Sft.	50
iii)	Toilet Side Window 3'-0" x 4'-0"	Sft.	24
19	<u>SECURITY GRILLS FOR WINDOWS</u>		
	<u>Wrought Iron Grill</u>		
i)	Providing and Fixing M.S Security Grills to windows, comprising of 1/2" square bars @ 6" c/c 16 gauge, welding, grinding, finishing, rubbing 3 coat of enamel paint (KANSAI/ICI,NIPPON,BERGER) red oxide before paint. Complete in all respects, as per standardized design.		
	Windows	Sft	400

20	<u>MS GRILL FOR BOUNDARY</u>		
	Providing and fixing M.S grill consisting of 1" x 1", 16-SWG M.S square pipe frame with 2 rows of horizontally & equal dividing panels vertically in the same frame and 1/2" M.S square bars 6" c/c welded to each another & frame horizontally with 2 rows of equal dividing in three panels vertically and design i/c masonry hold fast, grouting hold fast in cement concrete (1:2:4) and enamel painting 3-coats with one base coat of red oxide paint complete in all respect as approved and directed by The Engineer.	Sft.	840
21	<u>CAST IRON MANHOLE COVERS</u>		
	Providing CI Manhole Cover & Frame i/c Cost of Material etc	KG	30
22	<u>DHAKA GRASS</u>		
	Providing and planting dhaka grass @2.5"c/c both way including cost of grass, dreshi, waering, & cuttings complete in all respects till proper handing over	Sft.	4825
23	<u>JOGGING TRACK</u>		
	Construction of jogging track 8' wide Include Civil works Complete in all respect as per Architectural drawings	Sft.	3040
24	<u>PAVER BLOCKS</u>		
	Construction of tuff paver using 60 mm tuff pavers made by concrete concepts with crushing strength from 5000 to 7000 psi, 100x160x190 mm k2 edging stone on both sides Include Civil works complete in all respects as per instructions of engineer.		
a	5' wide path	Sft.	1900
b	Parking Area	Sft.	4200
25	<u>EARTH EMBANKMENT FILL</u>		
	Earth work in ordinary soil for embankments lead upto 5 ft, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects: 95% to 100% maximum modified AASHO dry density (2 miles lead)		
a	Under Tuff Paver Path	Cft	1425
26	<u>TR GIRDER ROOF</u>		
	Providing, supplying, fabricating, erecting, centering and fixing in position of Steel Girder I-Section structure for roofing work including all consumables with drilling and welding where required, cleaning of surface one coat of primer and two coats of enamel paints of approved color in true to the line & level including all necessary Tiers, tiles, or cement grouting, scaffolding, electricity supply, transportation charge, leads & lift, welding, grinding and all accessories as per instructions by engineer.	Sft.	1200
27	<u>GRANITE (TAIWAN GREY GRANITE)</u>		
	Provide and laying 3/4" thick factory polished granite door/window Sills, Thresholds and Borders, Steps for stair case, straight and curve as per site requirement, single piece, as directed by client, fixed 1:2 cement and mortar, color chemical grout including final rubbing finishing and polishing bull nosing carborundum grove where required etc. complete with all respect		
i)	On Main Entrance Steps, Risers and Platform Band	Sft.	40

b2) PLUMBING WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLYN PIPING</u>		
	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or susp[ended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	250
ii)	3/4" dia	Rft	300
iii)	1" dia	Rft	150
iv)	1 1/2" dia	Rft	100
2	<u>VALVE</u>		
	Providing and installing ball valves of following niminal dia, kitz make, including jointing, fitting, painting, texting, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	5
ii)	1" dia	Each	5
iii)	1 1/2" dia	Each	3
3	<u>SOIL & WASTE WATER SYSTEM</u>	-	
	<u>uPVC Sewage Pipe.</u>	-	
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	150
	4" dia	Rft	120
4	<u>FLOOR DRAIN</u>	-	
	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respects.	Each	6
5	<u>CLEAN OUT</u>	-	-
	Providing, fixing and texting 4" dia uPVC Clean-Out (Floor / ceiling type) with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout. Complete in all respect.	Each	4
6	Providing and fixing CI Gullin trap with chamber and cover complete in all respect.	Each	4
7	<u>TOILET FITTINGS & FIXTURES</u>		


	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	2
8	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	2
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	4
10	<u>KITCHEN SINK</u>		
	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	1
11	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	4
b)	For Kitchen Sink	Each	1
12	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	4
13	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	4
14	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	4
15	<u>TOWEL RAIL</u>		
	Providing and fixing heavy duty SS finish towel rail Maste, complete in all respects.	Each	4
16	<u>MIRROR</u>		

	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	40
17	<u>WATER COOLER</u>		
	Provide and install Heavy Duty Electric Water Cooler full Steel Body (Pel / Hier / Dawalance) as approved with proper fitting of water supply line and drain system as per direction of the Architect.	Nos	1
18	<u>MANHOLES</u>		
	Providing and making of brick masonry (1:5) cement sand mortar manhole of internal size as below as per site requirement including excavation PCC (1:4:8) 4" thick under foundation and bed, making benching with cement concrete (1:2:4) plastering (1:3) cement sand mortar inside and outside & two coats of bitumen painting on outer wall, RCC top slab, including reinforcement steel, 18" dia, heavy duty C.I manhole cover of C.I (NPC, CME Engg). complete in all respect.		
a)	Size 2' x 2'	Each	2
19	Providing and fixing approved quality super Tuff water tank of 2000 gallons capacity including connections etc. complete	Each	1
20	<u>GEYSER</u>		
	Providing, installing, testing and commissioning electric geyser of 8 gallons capacity including all necessary fittings, valves etc. complete in all respects.	Each	1

b3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
	<u>SECTION - A</u>		
	<u>WIRING INSTALLATION</u>		
1.	Providing and installing light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	80
b)	Light point from point to point.	Nos.	35
c)	Revolving fan point	Nos.	0
d)	Ceiling fan point	Nos.	13
e)	Exhaust fan point	Nos.	5
f)	Circuit wiring from lighting distribution board- L to switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	11
2.	Circuit wiring from lighting distribution board for switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	5

2.1	Providing and installing UPS light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	6
b)	Light point from point to point.	Nos.	8
c)	Revolving fan point	No.	0
d)	Ceiling fan point	Nos.	2
3	Providing and Circuit wiring of following type of Emergency Lighting + Exit Lighting controlled through direct distribution board with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	4
a)	Light point from point to point.	Nos.	2
4.	Providing and installing of circuit wiring from DB for 10 A, Multi socket outlet with 3 x 2.5 sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit concealed/surface mounted with all accessories, sheet steel back boxes with brass earth terminals, and providing and installing 10A Multi socket outlets.	Nos.	6
5.	Providing and installing of circuit wiring from DB to 15A 3 pin switch socket outlets (Duplex or equivalent) wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Duplex or equivalent)	Nos.	3
6.	Providing and installing of circuit wiring Wifi Device from DB to 15A 3 pin switch socket outlets (Simplex) wired with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Simplex)	Nos.	5
7	Providing and installing of circuit wiring (For Motor) from L.DB to 16A 3 pin switch socket outlets wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 16A specified switch socket outlet.	No.	2
8	Providing and wiring of following type of Exhaust Fan controlled through direct distribution board with 3 x 1.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	5
9	Providing & installing wiring for split units from distribution board to respective unit/load break switch with 3 x 6sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit, complete in all respects.	Nos.	3
10	Supply & installation of Floor box of 16 SWG.G.I. Sheet having cover of 12 SWG. Suitable for 1No. 5 Amps Socket, 2 No. 15 Amps. Socket (Dup), 1 No. data outlet , 1 No. Telephone outlet	No.	5
	<u>SWITCHES & SOCKETS</u>		
11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per design drawings.		
11.1	Four gang switch plate	Nos.	12


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11.2	Ten gang switch plate	Nos.	12
11.3	5A, 3 Pin switch socket.	Nos.	10
11.4	15A, Multi socket.	Nos.	10
11.5	15A 3 Pin switch socket	Nos.	5
11.6	16A 3 Pin switch socket.	No.	5
11.7	Fan Dimmer	Nos.	13
12	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.	1
13	<u>GI PIPE</u>	-	-
13.1	Supply and installation of following size of GI conduit including all accessories. Complete in all respect.		
13.2	25mm dia G.I pipe	Rft.	150
	<u>SECTION - B</u>		
	<u>IT NETWORKING</u>		
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.	20
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.	20
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet steel back box.	Nos.	0
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	20
5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	1
6.	Providing and installing of front cable management. Complete with all fixing accessories.	Nos.	1
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brand Rujee)	Nos.	1
9	Installation of Attendance Machine Completed with all fixing accessories.	No.	1
10	Providing and Installation and connecting up Data Rack 18U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1
11	installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord.		
a)	1.0 m Long (patch panel end) 3M	Nos.	30
b)	3.0 m Long (work station end) 3M	Nos.	10
12	Complete termination & testing of each node.	Job	1
	<u>SECTION - C</u>		
	<u>CCTV SYSTEM.</u>		
1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification.	Nos.	14

1.1	Providing and Installation of Network Camera indoor. Resolution: 2 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	6
1.2	Providing and Installation of Network Camera outdoor. Resolution: 4 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	4
1.3	Providing and Installation of P.O.E switch 16 Port Brand D-Link	Nos.	2
1.4	Providing and Installation of Iron Angle and PVC box for outdoor cameras	Nos.	4
2	Proving and Installation of NVR 16 Channels including 4TB Surveillance Hard Drive Brand Dahua	Nos.	1
3	Testing & Commissioning of CCTV system.	Job.	1
<u>SECTION - D</u>			
<u>LIGHT FIXTURES & FANS</u>			
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.		
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	12
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval.	Nos.	40
c)	<u>Fixture Type - C</u> Surface type TMS Light with 2 x 40 watt. As per architect approval.	Nos.	0
d)	<u>Fixture Type - D</u> LED Rope Light with 1 x 8 watt. As per architect approval.	Rft.	0
e)	<u>Fixture Type - E</u> LED Panel Light with 45 watt. As per architect approval.	Nos.	0
f)	<u>Fixture Type - F</u> Emergency lights with 8 W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	0
g)	<u>Fixture Type - G</u> Emergency Exit Light with 10W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	10
h)	<u>Fixture Type - H</u> Insects killer. As per architect approval.	Nos.	0
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	2
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	13
4.	Supply, installation & connection of Revolving fan, complete with all mounting accessories.	Nos.	0
5.	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	5

6.	Supply, installation & connection of 24" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	0
	<u>SECTION - E</u>		
	<u>SWITCHGEAR</u>		
	<u>MAIN DISTRIBUTION BOARD</u>		
	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.		
1.	Supply & install 150 A TP Box IP-65	Pcs	1
	Supply & install Main DB 12"x18"	Pcs	1
3.	Supply & install Change over 50 A MDB	Pcs	1
4.	Supply & install Under Voltage Trip (UVT).	Pcs	1
5	Supply & install Over Voltage Trip (OVT)	Pcs	1
6	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1
	<u>SECTION - F</u>		
	<u>MAIN/SUB-MAIN CABLES</u>		
a)	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.		
1.	<u>From Wapda Meter to Main DB</u>		
	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	300
2.	<u>From Gen. Set # 1 to Generator Change Over</u>		
	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	100
	<u>SECTION - G</u>		
	<u>EARTHING</u>		
1.	Supply. Installation & Testing of EFE-T Chemical Grounding System with 19mm dia having Heavy-duty Copper Rod 10 Ft. long filled with Soil Conditioning Material with 6" x 25 Ft. Deep Boring with heavy duty PVC Put within Coaster Silver Cover for air breathing with Brass Nuts and Bolts ready to use. upto Test Terminal. For Neutral Earthing the result should be less than 1 Ohm, Complete in all respect.	Nos.	1
2	Same as item No.1 above, but 2.5sq.mm single core PVC wires in 1" dia. PVC pipe from earth pit to Computer / Equipment Distribution board	Rft.	150

b4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		

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i	a) 1.0 Ton	Nos	1
ii	b) 1.5 Ton	Nos	2
2	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	3

c) RENOVATION OF BADO JABAL STATION

c1) CIVIL WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>DISMANTLING WORKS</u>		
	Dismantling / removing of existing constructed structures, fixtures, tools & equipment's with all necessary precautionary measures, stacking useable dismantled materials at designated place and disposal of surplus stuff disposing off debris from site as directed. from site, (block masonry, RCC slab, dado/ floor tiles, wooden/ glass door, windows, plaster, wooden partition, aluminum tile, false ceiling, roller shutter, AC / Electrical / Plumbing or any other item which is required to be demolished / removed but not mentioned above)	job	1
a)	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places etc. complete in all respects as per standard specification, and entire satisfaction of The Engineer.	Sft.	8,000
2	<u>TERMITE PROOFING</u>		
	Providing and carrying out termite proofing using FIPROKILL/ BIFLEX / DURSBANE or equivalent with a solution of 1 gallon of chemical to 50 gallons of water, sparing this solution @ 2 liters per sq. meter area (or liters per 10.76 sft. Area) with a pressure ensuring at least 3" penetration in the soil of the area to be treated. The contractor will provide a guarantee for a period of ten years against infestation of termite in the shape and mode approved by the Engineer, stating that in case of infestation, additional treatment will be provided by the contractor at no extra cost to the Client (horizontal & Vertical).	Sft.	15,000
3	<u>MS IRON GATE</u>		
	Providing & Installation of main entrance iron gate 16 gauge square pipe frame size of pipe 1.5" inch X 1.5" inch with 18 gauge ms sheet complete with red oxide, paint, hinges & all accessories	Sft	250
4	<u>WATER PROOFING</u>		

	<p>Roof Waterproofing with Full Features Treatment provides a very effective barrier against moisture, leakage seepage and direct rain water. Treatment involves proper cleaning and washing of roof.</p> <p>Proper chemical application and spreading of canvas. Consecutive chemical coating along with canvas provides extremely fine surface and best resistance to rain water. Details as under</p> <p>Preparation:</p> <ol style="list-style-type: none"> Proper cleaning of the roof Proper washing of the roof Securing scrap in bags without messing up Roof Damage & Cracks Repair Proper cement repair of the patches where necessary Complete & proper cracks treatment Proper filling of cracks joints leaks etc. Cloth bandage on all major cracks 4" wide Strip Complete roof damage repair & filling of all cracks Application of thick coating on bandage for covering Application Procedure Application of 1st primer coating Application of 2nd coat for surfacing Application of 3rd coat for complete covering Final Waterproofing Coating Application of 4th coat for waterproofing Application of 5th coat for final waterproofing Application of 6th extra coat for best results <p>Complete waterproofing complete in all respects Warranty 05 Years</p>		
a)	Roof	Sft	15,000
5	<u>INTERNAL PLASTER</u>		
	<p>Provide and apply 3/4" thick, 1:4 ratio cement and sand, plaster in two coats to all internal faces of walls, columns, beams, ceilings, lintels, recesses and corners. Include hacking of R.C.C. Structure where necessary. Trowel to yield smooth finish with good workmanship. Include cost of scaffolding where required.</p>		
a)	Internal Plaster	Sft.	2,500
6	<u>P.C.C FLOORING FOR TILING AREA</u>		
	<p>Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer</p>		
i)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sft	1,500
7	<u>PORCELAIN TILE ON BATH FLOOR AND WALL (12"X24")</u>		
	<p>Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 1 1/2" to 2" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as directed by the Architect.</p>		
a)	Flooring (12" x 24") (Charcole For Floor) For Material	Sft	2,000
b)	Flooring (12" x 24") (Charcole for Floor) For Labour	Sft	2,000
c)	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sft	4,000
d)	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sft	4,000
8	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		

	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	Internal Paint (Water base Matt Finish) For Material	Sft	120,000
b)	Internal Paint (Water Base Matt Finish) For Labour	Sft	120,000
9	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sft	80,000
b)	External Paint For Labour	Sft	80,000
10	<u>DOOR FRAME (INTERNAL DOOR)</u>		
	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as directed by the Engineer.		
	5" x 2"	Rft	1,105
11	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.	Sft	1,485
12	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type.		
	Door Lock	Nos	85
13	<u>DOOR CLOSER</u>		
	Provide and install approved Door Closer.		
	Door Closer	Nos	15
14	<u>LAMINATION DOOR MAIN ENTRANCE AREA</u>		
	Fabricating, providing and fixing Double Leaf and double swinging/ Single Swing Lamination Door having solid Oak wood CHOKHAT (anti termite treated) solid frame and 1/2" thick double lamination (anti termite treated) SHUTTER pasted together with Oak wood lipping (anti termite treated) in natural color polish with machine including stainless steel 16 S.W.G kick plates and 16 S.W.G bumper sticker with 8" x 30" vision panel with solid Oak wood beeding and 8mm thick clear glass and also includes of floor machine (New Star Japan), all kinds of best quality hardware, locks, closer, handles, hold fasts, stopper and tower bolt. Complete in all respects as per engineer, specifications, with approved design 3" wide Beading.		
a)	Entrance Door 6'-0' x 7'-0'	Sft	126
15	<u>DHAKA GRASS</u>		
	Providing and planting dhaka grass @2.5"c/c both way including cost of grass, dreshi, waering, & cuttings complete in all respects till proper handing over	Sft.	15,000
16	<u>EARTH EMBANKMENT FILL</u>		

	Earth work in ordinary soil for embankments lead upto 5 ft, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects: 95% to 100% maximum modified AASHO dry density (2 miles lead)	Cft	5,600
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c2) PLUMBING WORK


S.NO	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLYN PIPING</u>		
	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or susp[ended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	350
ii)	3/4" dia	Rft	350
iii)	1" dia	Rft	250
iv)	1 1/2" dia	Rft	150
2	<u>VALVE</u>		
	Providing and installing ball valves of following niminal dia, kitz make, including jointing, fitting, painting, texting, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	15
ii)	1" dia	Each	10
iii)	1 1/2" dia	Each	15
3	<u>SOIL & WASTE WATER SYSTEM</u>		
	<u>uPVC Sewage Pipe.</u>		
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	250
	4" dia	Rft	270
4	<u>FLOOR DRAIN</u>		
	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respect.	Each	17


5	<u>TOILET FITTINGS & FIXTURES</u>		
	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	5
6	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	5
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	12
7	<u>KITCHEN SINK</u>		
	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	1
8	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	10
b)	For Kitchen Sink	Each	1
9	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	17
10	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	17
11	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	17
12	<u>TOWEL RAIL</u>		


	Providing and fixing heavy duty SS finish towel rail Mast, complete in all respects.	Each	17
13	<u>MIRROR</u>		
	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	250

c3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
I	<u>SECTION - A</u>		
1	SOLAR PANEL : Supply and Erection of Solar PV Module (Solar Panel) 585 or Above W Mono-crystalline A-Grade/Updated Technology (per Watt) 1. Canadian 2. Jinko 3. Inverax 4. Longi 5. JA or equivalent brand approved by the Engineer. With 25 years warranty and meet the approved standards.	Nos.	72
2	INVERTER: Supply and Erection of Hybrid Inverter with net metering option updated version IP65 ingress protection having 08 Kw Capacity . Recommended brand is Inverex-Nitrox or any Equivalent Brands meet the specifications of approved KP govt standards. With 5 years standard warranty.	Nos.	4
3	Battery Bank: Supply and Erection of Tublar Batteries TX-2500 battery 230 Ah as per specification given by engineer. the allowable voltage drop must be less than 3%. (If all of appliance will runs in absence of lighting then the Batteries backup should be 1.6 hours and incase of 30% appliances running it will be 05 hours).	Nos.	32
4	PANEL MOUNTING & STRUCTURE: The panel mounting and structure should be made of hot dipped (80 microns Average) Galvanized steel of minimum thickness of 12 SWG / 2.64 mm Channel / Pipe or 8 SWG 4.06 mm Angle (Profile of channel and Sketch Attached in Specification). sketch of the mounting frame (As per Actual Site Requirements) showing dimensions of the frame parts should be provided at the time of supply. The prices of nuts bolts etc. it will be included in quoted rates.	LS	1
5	CONCRETE PADS: PCC 1:2:4 for PV Mounting pads as per requirement including all civil works and installation and instruction of Engineer Incharge.	cft	40
6	PV BALANCE OF SYSTEM: Supplying and installation of complete Clipsal Breaker Box , AC Cable , AC Fuses , DC Cable Circuit breakers, Auto changeover switch and DC Fuses//Breakers (63 AMP of Schneider or Himmel or equivalent brand), Including the wiring (Pakistan Cable, Schneider Electric Cable or equivalent) and all the other accessories	job	1
7	Earthing:- Supplying and installation of a complete earth system 3 meter copper rod , manhole with iron cover, cooper lightening arrestor, earth joints, clamps, GI Pipe, and 16 mm ² flexible copper cable from the structure to the copper rod, all necessary copper wires to connect arrays and modules in one loop for earthen. All precaution to have the resistance < 2Ω. All works and materials must be according specifications and supervisor instructions	job	1

 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES		SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
	and approval. And as per mentioned sketch in approved Specification for solarization.				
8	Cabling/Wiring Supply ,install and connect all cables appropriately sized (12 mm) in accordance with the installation requirements and to connect the inverter with PV system designed with all conduits, clamps, trays and cable terminations end which shall be plug and socket connectors and workmanship needed to have a complete job, The AC / DC cables should be made of 99.9% copper strands and Flexible. The allowable voltage drop for Cables between inverter and PV system less than 3%. Fast ,Pakistan cable or Equivalent as per Specification given for Solar system.	RFT		500	
9	BOX / STAND FOR BATTERIES, SHS-INVERTER Supply and Erection of BOX / STAND/Grill Stand for Batteries SHS Inverter & Charge Controller the batteries should be housed in a vented compartment/stand that prevents users from coming in contact with battery terminals and as well as with Inverter. This compartment/stand should be strong enough to accommodate the weight of the battery and all accessories. b. A mechanism to prevent opening and entry of the battery should be provided. c. This compartment should be manufactured of mild steel of at least 16 SWG. d. The compartment should be powder coated paint. e. The entire enclosure/stand must be constructed to last at least twenty years without maintenance and should be protected against corrosion. The enclosures have a clean and neat appearance. Battery Box /stand should be installed at a place42% -accordance with user's preference and lockable.	job		1	
10	Cabling/Wiring Supply ,install and connect all cables appropriately sized (25 mm) in accordance with the installation requirements and to connect the inverter with PV system designed with all conduits, clamps, trays and cable terminations end which shall be plug and socket connectors and workmanship needed to have a complete job, The AC / DC cables should be made of 99.9% copper strands and Flexible. The allowable voltage drop for Cables between inverter and PV system less than 3%. Fast ,Pakistan cable or Equivalent as per Specification given for Solar system.	RFT		350	
11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per Engineer.				
11.1	Four gang switch plate	Nos.		80	
11.2	Ten gang switch plate	Nos.		50	
11.3	5A, 3 Pin switch socket.	Nos.		40	
11.4	15A, Multi socket.	Nos.		30	
11.5	15A 3 Pin switch socket	Nos.		30	
11.6	16A 3 Pin switch socket.	No.		15	
11.7	Fan Dimmer	Nos.		55	
12	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.		1	
	<u>SECTION - B</u>				
	<u>IT NETWORKWING</u>				
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.		30	
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.		30	
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet	Nos.		10	

 SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
	steel back box.		
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	20
5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	5
6.	Providing and installing of front cable management.Complete with all fixing accessories.	Nos.	5
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	5
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	5
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brand Rujee)	Nos.	5
9	Providing and Installation of Attendance Machine Completed with all fixing accessories.	No.	1
10	Providing and Installation and connecting up Data Rack 22U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1
11	installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord.		
a)	1.0 m Long (patch panel end)	Nos.	40
b)	3.0 m Long (work station end)	Nos.	15
12	Complete termination & testing of each node.	Job	1
<u>SECTION - C</u>			
<u>CCTV SYSTEM.</u>			
1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification.	Nos.	30
1.1	Providing and Installation of Network Camera indoor. Resolution: 4 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	20
1.2	Providing and Installation of Network Camera outdoor. Resolution: 8 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	10
1.3	Providing and Installation of P.O.E switch 24 Port Brand D-Link	Nos.	2
1.4	Providing and Installation of Iron Angle and PVC box for outdoor cameras	Nos.	10
2	Proving and Installation of NVR 24 Channels including 8TB Surveillance Hard Drive Brand Dahua	Nos.	1
3	Testing & Commissioning of CCTV system.	Job.	1
<u>SECTION - D</u>			
<u>LIGHT FIXTURES & FANS</u>			
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.		
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	80
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval	Nos.	60
c)	<u>Fixture Type - C</u> Surface type TMS Light with 2 x 40 watt. As per architect approval.	Nos.	60
f)	<u>Fixture Type - D</u> Emergency lights with 8 W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	10
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	10

 SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	60
5.	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	15
<u>SECTION - E</u>			
<u>MAIN DISTRIBUTION BOARD</u>			
	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.		
1.	Supply & install 150 A TP Box IP-65	Pcs	1
2	Supply & install Change over 50 A MDB	Pcs	1
3	Supply & install Under Voltage Trip (UVT).	Pcs	1
4	Supply & install Over Voltage Trip (OVT)	Pcs	1
5	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1
<u>SECTION - F</u>			
<u>MAIN/SUB-MAIN CABLES</u>			
a)	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.		
1.	<u>From Wapda Meter to Main DB</u>		
	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	250
2.	<u>From Gen. Set # 1 to Generator Change Over</u>		
	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	150

c4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		
i	a) 1.0 Ton	Nos	0
ii	b) 1.5 Ton	Nos	3
2	Estimate additional copper piping with insulation for split units (charged as per final measurement on site). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.	Rft	150
3	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	3

d) RENOVATION OF DADU STATION

d1) CIVIL WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>DISMANTLING WORKS</u>		

	Dismantling / removing of existing constructed structures, fixtures, tools & equipment's with all necessary precautionary measures, stacking useable dismantled materials at designated place and disposal of surplus stuff etc. from site, (block masonry, RCC slab, dado/ floor tiles, wooden/ glass door, windows, plaster, wooden partition, aluminum tile, false ceiling, roller shutter, AC / Electrical / Plumbing or any other item which is required to be demolished / removed but not mentioned above)		
a)	Dismantling Wall tile Inside Area	Job	1
b)	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places etc. complete in all respects as per standard specification, and entire satisfaction of The Engineer.	Sft.	1,500
2	<u>TERMITE PROOFING</u>		
	Providing and carrying out termite proofing using FIPROKILL/ BIFLEX / DURSBANE or equivalent with a solution of 1 gallon of chemical to 50 gallons of water, sparing this solution @ 2 liters per sq. meter area (or liters per 10.76 sft. Area) with a pressure ensuring at least 3" penetration in the soil of the area to be treated. The contractor will provide a guarantee for a period of ten years against infestation of termite in the shape and mode approved by the Engineer, stating that in case of infestation, additional treatment will be provided by the contractor at no extra cost to the Client (horizontal & Vertical).	Sft.	3,000
3	<u>MS IRON GATE</u>		
	Providing & Installation of main entrance iron gate 16 gauge square pipe frame size of pipe 1.5" inch X 1.5" inch with 18 gauge ms sheet complete with red oxide, paint, hinges & all accessories	Sft	84
4	<u>WATER PROOFING</u>		
	<p>Roof Waterproofing with Full Features Treatment provides a very effective barrier against moisture, leakage seepage and direct rain water. Treatment involves proper cleaning and washing of roof.</p> <p>Proper chemical application and spreading of canvas. Consecutive chemical coating along with canvas provides extremely fine surface and best resistance to rain water.</p> <p>Details as under</p> <p>Preparation:</p> <ol style="list-style-type: none"> Proper cleaning of the roof Proper washing of the roof Securing scrap in bags without messing up Roof Damage & Cracks Repair Proper cement repair of the patches where necessary Complete & proper cracks treatment Proper filling of cracks joints leaks etc. Cloth bandage on all major cracks 4" wide Strip Complete roof damage repair & filling of all cracks Application of thick coating on bandage for covering Application Procedure Application of 1st primer coating Application of 2nd coat for surfacing Application of 3rd coat for complete covering Final Waterproofing Coating Application of 4th coat for waterproofing Application of 5th coat for final waterproofing Application of 6th extra coat for best results <p>Complete waterproofing complete in all respects Warranty 05 Years</p>		
a)	Roof	Sft	6,000
5	<u>INTERNAL PLASTER</u>		

	Provide and apply 3/4" thick, 1:4 ratio cement and sand, plaster in two coats to all internal faces of walls, columns, beams, ceilings, lintels, recesses and corners. Include hacking of R.C.C. Structure where necessary. Trowel to yield smooth finish with good workmanship. Include cost of scaffolding where required.		
	Internal Plaster	Sft.	8,000
6	<u>P.C.C FLOORING FOR TILING AREA</u>		
	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer		
i)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sft	4,500
7	<u>PORCELAIN TILE ON PANTRY AND BATH FLOOR AND WALL (12"X24")</u>		
	Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 2" to 3" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as per drawing and as directed by the Architect.		
	Flooring (12" x 24") (Charcole For Floor) For Material	Sft	350
	Flooring (12" x 24") (Charcole for Floor) For Labour	Sft	350
	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sft	800
	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sft	800
8	<u>PORCELAIN TILES ON FLOOR & SKIRTING (24" x 48")</u>		
	Providing and laying of porcelain tiles of 600x1200 mm size porcelain tile (Code: Rokka Malaysia 6012 - Baige) laid with cement / Dry bond of approved colour/shade with grouting including chipping & hacking of existing floor before laying of new tile floor as shown in drawing etc. complete in all respect. including skirting 4" high.	sqm	500
9	<u>FALSE CEILING (Gypsum)</u>		
	Provide and install 24"X 24" False Ceiling (Gypsum DFB Brand) with Aluminum suspension system, complete with instruction by the Engineer (Design and Color approve by the Engineer.)	Sft	5,000
10	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		

	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	Internal Paint (Oil Base Matt Finish) For Material	Sft	8,000
b)	Internal Paint (Oil Base Matt Finish) For Labour	Sft	8,000
11	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as shown on the drawings specifications and/or as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sft	10,000
b)	External Paint For Labour	Sft	10,000
12	<u>PVC PANELS WALL CLADDING</u>		
	Supply and install 10"x9' PVC Panels wall cladding with 08 mm thickness with complete in all respects including rafters and all its accessories design and color as per Engineer in charge.	Sft	4,000
13	<u>DOOR FRAME (INTERNAL DOOR)</u>		
	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as per drawing and as directed by the Engineer.		
	5" x 2"	Rft	200
14	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.		
		Sft	500
15	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type		
	Door Lock	Nos	10
16	<u>DOOR CLOSER</u>		
	Provide and install approved Door Closer.		
	Door Closer	Nos	4
17	<u>LAMINATION DOOR MAIN ENTRANCE AREA</u>		

	Fabricating, providing and fixing Double Leaf and double swinging/ Single Swing Lamination Door having solid Oak wood CHOKHAT (anti termite treated) solid frame and 1/2" thick double lamination (anti termite treated) SHUTTER pasted together with Oak wood lipping (anti termite treated) in natural color polish with machine including stainless steel 16 S.W.G kick plates and 16 S.W.G bumper sticker with 8" x 30" vision panel with solid Oak wood beeding and 8mm thick clear glass and also includes of floor machine (New Star Japan), all kinds of best quality hardware, locks, closer, handles, hold fasts, stopper and tower bolt. Complete in all respects as per engineer, specifications, with approved design 3" wide Beading.		
a)	Entrance Door 6'-0' x 7'-0'	Sft	42
18	<u>ALUMINUM WINDOWS</u>		
	Providing, fabricating and fixing in position heavy duty deluxe section approved color anodized aluminum local extruded Pak cable or equivalent (thickness of section 2mm minimum) or size using 4" wide section, 6 mm distortion free approved glass with gasket neoprene channels. Aluminum surfaces shall be anodized in approved color finish and shop protected including all accessories, fittings, rubber, seals, neoprene weather strips between frame and wall and frame edge trimming, gasket, screws, fly screen etc. and approval of the Engineer complete in all respect.		
i)	Window 5'-0"x 7'-0"	Sft.	175
ii)	Window 2'-0"x 7'-0"	Sft.	70
iii)	Toilet Side Window 3'-0" x 4'-0"	Sft.	36
19	<u>DHAKA GRASS</u>		
	Providing and planting dhaka grass @2.5"c/c both way including cost of grass, dreshi, waering, & cuttings complete in all respects till proper handing over	Sft.	2,500
20	<u>PAVER BLOCKS</u>		
	Construction of tuff paver using 60 mm tuff pavers made by concrete concepts with crushing strength from 5000 to 7000 psi, 100x160x190 mm k2 edging stone on both sides Include Civil works complete in all respects as per drawing		
a)	Parking Area	Sft.	5,000
21	<u>EARTH EMBANKMENT FILL</u>		
	Earth work in ordinary soil for embankments lead upto 5 ft, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects: 95% to 100% maximum modified AASHO dry density (2 miles lead)		
a)	Under Dhaka Grass	Cft	2,000
22	<u>GRANITE (TAIWAN GREY GRANITE)</u>		

	Provide and laying 3/4" thick factory polished granite door/window Sills, Thresholds and Borders, Steps for stair case, straight and curve as per site requirement, single piece, as directed by client, fixed 1:2 cement and mortar, color chemical grout including final rubbing finishing and polishing bull nosing carborandom grove where required etc. complete with all respect		
i)	On Main Entrance Steps, Risers and Platform Band	Sft.	72
23	<u>PCC FLOORING FOR DISINFECTION AREA</u>		
i	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer	sft	500
	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.		
24	<u>MASONRY WORK</u>		
	Providing and laying Brick masonry with first class solid burnt brick set in (1:4) cement sand mortar in super structure including scaffolding, curing, drilling for wall ties where brick work joins R.C.C columns, walls etc. Complete in all respects as per drawings and specifications to complete satisfaction of the Engineer in charge.		
	4-1/2" thick Brick Masonry	Sft.	2,000
	9" thick Brick Masonry	Sft.	2,500

d2) PLUMBING WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLYN PIPING</u>		
	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or susp[ended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	150
ii)	3/4" dia	Rft	100
iii)	1" dia	Rft	85
2	<u>VALVE</u>		
	Providing and installing ball valves of following niminal dia, kitz make, including jointing, fitting, painting, textng, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	7
ii)	1" dia	Each	7
3	<u>SOIL & WASTE WATER SYSTEM</u>		

	<u>uPVC Sewage Pipe.</u>	-	
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	85
	4" dia	Rft	90
4	<u>FLOOR DRAIN</u>	-	
	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respect.	Each	7
5	<u>CLEAN OUT</u>	-	
	Providing, fixing and texting 4" dia uPVC Clean-Out (Floor / ceiling type) with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout. Complete in all respect.	Each	4
6	Providing and fixing CI Gullin trap with chamber and cover complete in all respect.	Each	4
7	<u>TOILET FITTINGS & FIXTURES</u>		
	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	3
8	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	1
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	4
10	<u>KITCHEN SINK</u>		
	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	1

11	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	4
b)	For Kitchen Sink	Each	1
12	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	4
13	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	4
14	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	4
15	<u>TOWEL RAIL</u>		
	Providing and fixing heavy duty SS finish towel rail Maste, complete in all respects.	Each	4
16	<u>MIRROR</u>		
	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	25
17	<u>WATER C OOLER</u>		
	Provide and install Heavy Duty Electric Water Cooler full Steel Body (Pel / Hier / Dawalance) as approved with proper fitting of water supply line and drain system as per direction of the Architect	Nos	2
18	<u>MANHOLES</u>		
	Providing and making of brick masonry (1:5) cement sand mortar manhole of internal size as below as per site requirement including excavation PCC (1:4:8) 4" thick under foundation and bed, making benching with cement concrete (1:2:4) plastering (1:3) cement sand mortar inside and outside & two coats of bitumen painting on outer wall, RCC top slab, including reinforcement steel, 18" dia, heavy duty C.I manhole cover of C.I (NPC, CME Engg). complete in all respect.		
a)	Size 2' x 2'	Each	5
19	Providing and fixing approved quality super Tuff water tank of 2000 gallons capacity including connections etc. compleete as shown.	Each	1
20	<u>GEYSER</u>		

	Providing, installing, testing and commissioning electric geyser of 8 gallons capacity including all necessary fittings, valves etc. complete in all respects.	Each	1
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d3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
	<u>SECTION - A</u>		
	<u>WIRING INSTALLATION</u>		
1.	Providing and installing light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	25
b)	Light point from point to point.	Nos.	25
c)	Revolving fan point	Nos.	0
d)	Ceiling fan point	Nos.	15
e)	Exhaust fan point	Nos.	5
f)	Circuit wiring from lighting distribution board- L to switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	11
2.	Circuit wiring from lighting distribution board for switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	5
2.1	Providing and installing UPS light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	15
b)	Light point from point to point.	Nos.	8
c)	Revolving fan point	No.	0
d)	Ceiling fan point	Nos.	6
3	Providing and Circuit wiring of following type of Emergency Lighting + Exit Lighting controlled through direct distribution board with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	6
a)	Light point from point to point.	Nos.	4
4.	Providing and installing of circuit wiring from DB for 10 A, Multi socket outlet with 3 x 2.5 sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit concealed/surface mounted with all accessories, sheet steel back boxes with brass earth terminals, and providing and installing 10A Multi socket outlets.	Nos.	6
5.	Providing and installing of circuit wiring from DB to 15A 3 pin switch socket outlets (Duplex or equivalent) wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Duplex or equivalent)	Nos.	3

6.	Providing and installing of circuit wiring Wifi Device from DB to 15A 3 pin switch socket outlets (Simplex) wired with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Simplex)	Nos.	3
7	Providing and installing of circuit wiring (For Motor) from L.DB to 16A 3 pin switch socket outlets wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 16A specified switch socket outlet.	No.	2
8	Providing and wiring of following type of Exhaust Fan controlled through direct distribution board with 3 x 1.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	5
9	Providing & installing wiring for split units from distribution board to respective unit/load break switch with 3 x 6sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit, complete in all respects.	Nos.	3
10	Supply & installation of Floor box of 16 SWG.G.I. Sheet having cover of 12 SWG. Suitable for 1No. 5 Amps Socket, 2 No. 15 Amps. Socket (Dup), 1 No. data outlet , 1 No. Telephone outlet	No.	5
<u>SWITCHES & SOCKETS</u>			
11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per design drawings.		
11.4	Four gang switch plate	Nos.	9
11.5	Ten gang switch plate	Nos.	9
11.6	5A, 3 Pin switch socket.	Nos.	8
19.7	15A, Multi socket.	Nos.	8
19.8	15A 3 Pin switch socket	Nos.	8
19.9	16A 3 Pin switch socket.	No.	5
19.10	Fan Dimmer	Nos.	10
20	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.	2
21	<u>GI PIPE</u>	-	-
21.1	Supply and installation of following size of GI conduit including all accessories. Complete in all respect.		
21.2	25mm dia G.I pipe	Rft.	150
<u>SECTION - B</u>			
<u>IT NETWORKING</u>			
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.	20
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.	20
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet steel back box.	Nos.	0
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	20

5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	1
6.	Providing and installing of front cable management. Complete with all fixing accessories.	Nos.	1
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brand Rujee)	Nos.	1
9	Providing & Installation of Attendance Machine Completed with all fixing accessories.	No.	1
10	Providing and Installation and connecting up Data Rack 18U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1
11	Installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord..		
a)	1.0 m Long (patch panel end) 3M	Nos.	30
b)	3.0 m Long (work station end) 3M	Nos.	10
12	Complete termination & testing of each node.	Job	1
<u>SECTION - C</u>			
<u>CCTV SYSTEM.</u>			
1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification.	Nos.	10
3.1	Providing and Installation of Network Camera indoor. Resolution: 2 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	10
	Providing and Installation of Network Camera outdoor. Resolution: 4 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	2
4.1	Providing and Installation of P.O.E switch 16 Port Brand D-Link	Nos.	2
	Providing and Installation of Iron Angle and PVC box for outdoor cameras	Nos.	2
	Providing and Installation of NVR 16 Channels including 8TB Surveillance Hard Drive Brand Dahua	Nos.	1
7.	Testing & Commissioning of CCTV system.	Job.	1
<u>SECTION - D</u>			
<u>LIGHT FIXTURES & FANS</u>			
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.		
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	20
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval.	Nos.	25
c)	<u>Fixture Type - C</u> Surface type TMS Light with 2 x 40 watt. As per architect approval.	Nos.	0
d)	<u>Fixture Type - D</u> LED Rope Light with 1 x 8 watt. As per architect approval	Rft.	0
e)	<u>Fixture Type - E</u> LED Panel Light with 45 watt. As per architect approval.	Nos.	0

f)	<u>Fixture Type - F</u> Emergency lights with 8 W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	0
g)	<u>Fixture Type - G</u> Emergency Exit Light with 10W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	6
h)	<u>Fixture Type - H</u> Insects killer. As per architect approval.	Nos.	2
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	2
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	15
4.	Supply, installation & connection of Revolving fan, complete with all mounting accessories.	Nos.	0
5.	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	5
6.	Supply, installation & connection of 24" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	0
	<u>SECTION - E</u>		
	<u>SWITCHGEAR</u>		
	<u>MAIN DISTRIBUTION BOARD</u>		
	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.		
1.	Supply & install 150 A TP Box IP-65	Pcs	1
2	Supply & install Main DB 12"x18"	Pcs	1
3.	Supply & install Change over 50 A MDB	Pcs	1
4.	Supply & install Under Voltage Trip (UVT).	Pcs	1
5	Supply & install Over Voltage Trip (OVT)	Pcs	1
6	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1
	<u>SECTION - F</u>		
	<u>MAIN/SUB-MAIN CABLES</u>		
a)	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.		
1.	<u>From Wapda Meter to Main DB</u>		
	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	300
2.	<u>From Gen. Set # 1 to Generator Change Over</u>		
	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	100
	<u>SECTION - G</u>		
	<u>EARTHING</u>		
1.	Supply. Installation & Testing of EFE-T Chemical Grounding System with 19mm dia having Heavy-duty Copper Rod 10 Ft. long filled with Soil Conditioning Material with 6" x 25 Ft. Deep Boring with heavy duty PVC Put within Coaster Silver Cover for air breathing with Brass Nuts and Bolts ready to use. upto Test Terminal. For Neutral Earthing the result should be less than 1 Ohm, Complete in all respect.	Nos.	1

2	Same as item No.1 above, but 2.5sq.mm single core PVC wires in 1" dia. PVC pipe from earth pit to Computer / Equipment Distribution board	Rft.	150
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d4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		
i	a) 1.0 Ton	Nos	3
ii	b) 1.5 Ton	Nos	2
2	Estimate additional copper piping with insulation for split units (charged as per final measurement on site). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.	Rft	50
3	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	5

e) RENOVATION OF MATIARI STATION

e1) CIVIL WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>DISMANTLING WORKS</u>		
	Dismantling / removing of existing constructed structures, fixtures, tools & equipment's with all necessary precautionary measures, stacking useable dismantled materials at designated place and disposal of surplus stuff etc. from site, (block masonry, RCC slab, dado/ floor tiles, wooden/ glass door, windows, plaster, wooden partition, aluminum tile, false ceiling, roller shutter, AC / Electrical / Plumbing or any other item which is required to be demolished / removed but not mentioned above)		
a)	Dismantling Wall tile Inside Area	Job	1
b)	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places etc. complete in all respects as per standard specification, and entire satisfaction of The Engineer.	Sft.	2,000
2	<u>TERMITE PROOFING</u>		
	Providing and carrying out termite proofing using FIPROKILL/ BIFLEX / DURSANE or equivalent with a solution of 1 gallon of chemical to 50 gallons of water, sparing this solution @ 2 liters per sq. meter area (or liters per 10.76 sft. Area) with a pressure ensuring at least 3" penetration in the soil of the area to be treated. The contractor will provide a guarantee for a period of ten years against infestation of termite in the shape and mode approved by the Engineer, stating that in case of infestation, additional treatment will be provided by the contractor at no extra cost to the Client (horizontal & Vertical).	Sft.	4,000
3	<u>MS IRON GATE</u>		

	Providing & Installation of main entrance iron gate 16 gauge square pipe frame size of pipe 1.5" inch X 1.5" inch with 18 gauge ms sheet complete with red oxide, paint, hinges & all accessories	Sft	72
3	<u>WATER PROOFING</u>		
	<p>Roof Waterproofing with Full Features Treatment provides a very effective barrier against moisture, leakage seepage and direct rain water. Treatment involves proper cleaning and washing of roof.</p> <p>Proper chemical application and spreading of canvas. Consecutive chemical coating along with canvas provides extremely fine surface and best resistance to rain water. Details as under</p> <p>Preparation:</p> <ol style="list-style-type: none"> Proper cleaning of the roof Proper washing of the roof Securing scrap in bags without messing up Roof Damage & Cracks Repair Proper cement repair of the patches where necessary Complete & proper cracks treatment Proper filling of cracks joints leaks etc. Cloth bandage on all major cracks 4" wide Strip Complete roof damage repair & filling of all cracks Application of thick coating on bandage for covering Application Procedure Application of 1st primer coating Application of 2nd coat for surfacing Application of 3rd coat for complete covering Final Waterproofing Coating Application of 4th coat for waterproofing Application of 5th coat for final waterproofing Application of 6th extra coat for best results <p>Complete waterproofing complete in all respects Warranty 05 Years</p>		
a)	Roof	Sft	4,000
4	<u>INTERNAL PLASTER</u>		
	Provide and apply 3/4" thick, 1:4 ratio cement and sand, plaster in two coats to all internal faces of walls, columns, beams, ceilings, lintels, recesses and corners. Include hacking of R.C.C. Structure where necessary. Trowel to yield smooth finish with good workmanship. Include cost of scaffolding where required.		
	Internal Plaster	Sft.	10,000
5	<u>P.C.C FLOORING FOR TILING AREA</u>		
	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer		
i)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sft	5,500
6	<u>PORCELAIN TILE ON PANTRY AND BATH FLOOR AND WALL (12"X24")</u>		
	Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 2" to 3" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as per drawing and as directed by the Architect.		
	Flooring (12" x 24") (Charcole For Floor) For Material	Sft	200
	Flooring (12" x 24") (Charcole for Floor) For Labour	Sft	200
	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sft	600

	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sft	600
7	PORCELAIN TILES ON FLOOR & SKIRTING (24" x 48")		
	Providing and laying of porcelain tiles of 600x1200 mm size porcelain tile (Code: Rokka Malaysia 6012 - Baige) laid with cement / Dry bond of approved colour/shade with grouting including chipping & hacking of existing floor before laying of new tile floor as shown in drawing etc. complete in all respect. including skirting 4" high.	sqm	500
8	<u>FALSE CEILING (Gypsum)</u>		
	Provide and install 24"X 24" False Ceiling (Gypsum DFB Brand) with Aluminum suspension system, complete with instruction by the Engineer (Design and Color approve by the Engineer.)	Sft	4,500
9	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		
	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	Internal Paint (Oil Base Matt Finish) For Material	Sft	6,000
b)	Internal Paint (Oil Base Matt Finish) For Labour	Sft	6,000
10	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as shown on the drawings specifications and/or as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sft	12,000
b)	External Paint For Labour	Sft	12,000
11	<u>PVC PANELS WALL CLADDING</u>		
	Supply and install 10"x9' PVC Panels wall cladding with 08 mm thickness with complete in all respects including rafters and all its accessories design and color as per Engineer in charge.	Sft	4,000
12	<u>DOOR FRAME (INTERNAL DOOR)</u>		
	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as per drawing and as directed by the Engineer.		
	5" x 2"	Rft	250
13	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.		
		Sft	600
14	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type.		
	Door Lock	Nos	12
15	<u>DOOR CLOSER</u>		
	Provide and install approved Door Closer.		
	Door Closer	Nos	6

16	<u>LAMINATION DOOR MAIN ENTRANCE AREA</u>		
	Fabricating, providing and fixing Double Leaf and double swinging/ Single Swing Lamination Door having solid Oak wood CHOKHAT (anti termite treated) solid frame and 1/2" thick double lamination (anti termite treated) SHUTTER pasted together with Oak wood lipping (anti termite treated) in natural color polish with machine including stainless steel 16 S.W.G kick plates and 16 S.W.G bumper sticker with 8" x 30" vision panel with solid Oak wood beeding and 8mm thick clear glass and also includes of floor machine (New Star Japan), all kinds of best quality hardware, locks, closer, handles, hold fasts, stopper and tower bolt. Complete in all respects as per engineer, specifications, with approved design 3" wide Beading.		
a)	Entrance Door 6'-0' x 7'-0'	Sft	42
17	<u>ALUMINUM WINDOWS</u>		
	Providing, fabricating and fixing in position heavy duty deluxe section approved color anodized aluminum local extruded Pak cable or equivalent (thickness of section 2mm minimum) or size using 4" wide section, 6 mm distortion free approved glass with gasket neoprene channels. Aluminum surfaces shall be anodized in approved color finish and shop protected including all accessories, fittings, rubber, seals, neoprene weather strips between frame and wall and frame edge trimming, gasket, screws, fly screen etc. and approval of the Engineer complete in all respect.		
i)	Window 5'-0"x 7'-0"	Sft.	350
ii)	Window 2'-0"x 7'-0"	Sft.	140
iii)	Toilet Side Window 3'-0" x 4'-0"	Sft.	60
18	<u>DHAKA GRASS</u>		
	Providing and planting dhaka grass @2.5"c/c both way including cost of grass, dreshi, waering, & cuttings complete in all respects till proper handing over	Sft.	2,500
19	<u>PAVER BLOCKS</u>		
	Construction of tuff paver using 60 mm tuff pavers made by concrete concepts with crushing strength from 5000 to 7000 psi, 100x160x190 mm k2 edging stone on both sides Include Civil works complete in all respects as per drawing		
a)	Parking Area	Sft.	5,000
20	<u>EARTH EMBANKMENT FILL</u>		
	Earth work in ordinary soil for embankments lead upto 5 ft, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects: 95% to 100% maximum modified AASHO dry density (2 miles lead)		
a)	Under Dhaka Grass	Cft	1,500
21	<u>GRANITE (TAIWAN GREY GRANITE)</u>		
	Provide and laying 3/4" thick factory polished granite door/window Sills, Thresholds and Borders, Steps for stair case, straight and curve as per site requirement, single piece, as directed by client, fixed 1:2 cement and mortar, color chemical grout including final rubbing finishing and polishing bull nosing carborandom grove where required etc. complete with all respect		
i)	On Main Entrance Steps, Risers and Platform Band	Sft.	72
22	<u>PCC FLOORING FOR DISINFECTION AREA</u>		

i	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer	sft	450
	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.		
23	<u>MASONRY WORK</u>		
	Providing and laying Brick masonry with first class solid burnt brick set in (1:4) cement sand mortar in super structure including scaffolding, curing, drilling for wall ties where brick work joins R.C.C columns, walls etc. Complete in all respects as per drawings and specifications to complete satisfaction of the Engineer in charge.		
	4-1/2" thick Brick Masonry	Sft.	1,800
	9" thick Brick Masonry	Sft.	2,200

e2) PLUMBING WORK


S.NO	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLYN PIPING</u>		
	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or susp[ended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	180
ii)	3/4" dia	Rft	150
iii)	1" dia	Rft	55
2	<u>VALVE</u>		
	Providing and installing ball valves of following niminal dia, kitz make, including jointing, fitting, painting, texting, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	6
ii)	1" dia	Each	6
3	<u>SOIL & WASTE WATER SYSTEM</u>	-	
	<u>uPVC Sewage Pipe.</u>	-	
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	75
	4" dia	Rft	85
4	<u>FLOOR DRAIN</u>	-	

	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respect.	Each	6
5	<u>CLEAN OUT</u>	-	-
	Providing, fixing and texting 4" dia uPVC Clean-Out (Floor / ceiling type) with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout. Complete in all respect.	Each	5
6	Providing and fixing CI Gullin trap with chamber and cover complete in all respect.	Each	4
7	<u>TOILET FITTINGS & FIXTURES</u>		
	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	3
8	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	1
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	4
10	<u>KITCHEN SINK</u>		
	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	1
11	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	4
b)	For Kitchen Sink	Each	1
12	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	4

13	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	4
14	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	4
15	<u>TOWEL RAIL</u>		
	Providing and fixing heavy duty SS finish towel rail Master, complete in all respects.	Each	4
16	<u>MIRROR</u>		
	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	25
17	<u>WATER COOLER</u>		
	Provide and install Heavy Duty Electric Water Cooler full Steel Body (Pel / Hier / Dawalance) as approved with proper fitting of water supply line and drain system as per direction of the Architect.	Nos	2
18	<u>MANHOLES</u>		
	Providing and making of brick masonry (1:5) cement sand mortar manhole of internal size as below as per site requirement including excavation PCC (1:4:8) 4" thick under foundation and bed, making benching with cement concrete (1:2:4) plastering (1:3) cement sand mortar inside and outside & two coats of bitumen painting on outer wall, RCC top slab, including reinforcement steel, 18" dia, heavy duty C.I manhole cover of C.I (NPC, CME Engg). complete in all respect.		
a)	Size 2' x 2'	Each	5
19	Providing and fixing approved quality super Tuff water tank of 2000 gallons capacity including connections etc. complete as shown.	Each	1
20	<u>GEYSER</u>		
	Providing, installing, testing and commissioning electric geyser of 8 gallons capacity including all necessary fittings, valves etc. complete in all respects.	Each	1


e3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
	<u>SECTION - A</u>		
	<u>WIRING INSTALLATION</u>		
1.	Providing and installing light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	20
b)	Light point from point to point.	Nos.	20
c)	Revolving fan point	Nos.	0

 SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
d)	Ceiling fan point	Nos.	12
e)	Exhaust fan point	Nos.	5
f)	Circuit wiring from lighting distribution board- L to switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	11
2.	Circuit wiring from lighting distribution board for switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	5
2.1	Providing and installing UPS light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	15
b)	Light point from point to point.	Nos.	8
c)	Revolving fan point	No.	0
d)	Ceiling fan point	Nos.	6
3	Providing and Circuit wiring of following type of Emergency Lighting + Exit Lighting controlled through direct distribution board with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	6
a)	Light point from point to point.	Nos.	4
4.	Providing and installing of circuit wiring from DB for 10 A, Multi socket outlet with 3 x 2.5 sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit concealed/surface mounted with all accessories, sheet steel back boxes with brass earth terminals, and providing and installing 10A Multi socket outlets.	Nos.	6
5.	Providing and installing of circuit wiring from DB to 15A 3 pin switch socket outlets (Duplex or equivalent) wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Duplex or equivalent)	Nos.	3
6.	Providing and installing of circuit wiring Wifi Device from DB to 15A 3 pin switch socket outlets (Simplex) wired with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Simplex)	Nos.	3
7	Providing and installing of circuit wiring (For Motor) from L.DB to 16A 3 pin switch socket outlets wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 16A specified switch socket outlet.	No.	2
8	Providing and wiring of following type of Exhaust Fan controlled through direct distribution board with 3 x 1.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	5
9	Providing & installing wiring for split units from distribution board to respective unit/load break switch with 3 x 6sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit, complete in all respects.	Nos.	3
10	Supply & installation of Floor box of 16 SWG.G.I. Sheet having cover of 12 SWG. Suitable for 1No. 5 Amps Socket, 2 No. 15 Amps. Socket (Dup), 1 No. data outlet , 1 No. Telephone outlet	No.	5
<u>SWITCHES & SOCKETS</u>			

11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per design drawings.		
11.4	Four gang switch plate	Nos.	9
11.5	Ten gang switch plate	Nos.	9
11.6	5A, 3 Pin switch socket.	Nos.	8
19.7	15A, Multi socket.	Nos.	8
19.8	15A 3 Pin switch socket	Nos.	8
19.9	16A 3 Pin switch socket.	No.	5
19.10	Fan Dimmer	Nos.	10
20	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.	2
21	<u>GI PIPE</u>	-	-
21.1	Supply and installation of following size of GI conduit including all accessories. Complete in all respect.		
21.2	25mm dia G.I pipe	Rft.	150
	<u>SECTION - B</u>		
	<u>IT NETWORKING</u>		
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.	20
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.	20
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet steel back box.	Nos.	0
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	20
5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	1
6.	Providing and installing of front cable management.Complete with all fixing accessories.	Nos.	1
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brand Rujee)	Nos.	1
9	Providing & Installation of Attendance Machine Completed with all fixing accessories.	No.	1
10	Providing and Installation and connecting up Data Rack 18U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1
11	Installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord..		
a)	1.0 m Long (patch panel end) 3M	Nos.	30
b)	3.0 m Long (work station end) 3M	Nos.	10
12	Complete termination & testing of each node.	Job	1
	<u>SECTION - C</u>		
	<u>CCTV SYSTEM.</u>		

1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification.	Nos.	10
3.1	Providing and Installation of Network Camera indoor. Resolution: 2 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	10
4.1	Providing and Installation of Network Camera outdoor. Resolution: 4 Mega Pixical Night Vision IP Camera with all accessories. Brand Dahua	Nos.	2
7.	Providing and Installation of P.O.E switch 16 Port Brand D-Link	Nos.	2
	Providing and Installation of Iron Angle and PVC box for outdoor cameras	Nos.	2
	Proving and Installation of NVR 16 Channels including 8TB Surveillance Hard Drive Brand Dahua	Nos	1
	Testing & Commissioning of CCTV system.	Job.	1
	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification.	Nos.	10
	<u>LIGHT FIXTURES & FANS</u>		
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.		
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	20
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval	Nos.	25
c)	<u>Fixture Type - C</u> Surface type TMS Light with 2 x 40 watt. As per architect approval.	Nos.	0
d)	<u>Fixture Type - D</u> LED Rope Light with 1 x 8 watt. As per architect approval.	Rft.	0
e)	<u>Fixture Type - E</u> LED Panel Light with 45 watt. As per architect approval	Nos.	0
f)	<u>Fixture Type - F</u> Emergency lights with 8 W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	0
g)	<u>Fixture Type - G</u> Emergency Exit Light with 10W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	6
h)	<u>Fixture Type - H</u> Insects killer. As per architect approval.	Nos.	2
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	2
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	15

	SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS	RENOVATION OF STATIONS
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4.	Supply, installation & connection of Revolving fan, complete with all mounting accessories.	Nos.	0
5.	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	5
6.	Supply, installation & connection of 24" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	0
<u>SECTION - E</u>			
<u>SWITCHGEAR</u>			
<u>MAIN DISTRIBUTION BOARD</u>			
	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.		
1.	Supply & install 150 A TP Box IP-65	Pcs	1
	Supply & install Main DB 12"x18"	Pcs	1
3.	Supply & install Change over 50 A MDB	Pcs	1
4.	Supply & install Under Voltage Trip (UVT).	Pcs	1
5	Supply & install Over Voltage Trip (OVT)	Pcs	1
6	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1
<u>SECTION - F</u>			
<u>MAIN/SUB-MAIN CABLES</u>			
a)	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.		
1.	<u>From Wapda Meter to Main DB</u>		
	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	300
2.	<u>From Gen. Set # 1 to Generator Change Over</u>		
	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	100
<u>SECTION - G</u>			
<u>EARTHING</u>			
1.	Supply. Installation & Testing of EFE-T Chemical Grounding System with 19mm dia having Heavy-duty Copper Rod 10 Ft. long filled with Soil Conditioning Material with 6" x 25 Ft. Deep Boring with heavy duty PVC Put within Coaster Silver Cover for air breathing with Brass Nuts and Bolts ready to use. upto Test Terminal. For Neutral Earthing the result should be less than 1 Ohm, Complete in all respect.	Nos.	1
2	Same as item No.1 above, but 2.5sq.mm single core PVC wires in 1" dia. PVC pipe from earth pit to Computer / Equipment Distribution board	Rft.	150

e4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
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1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		
i	a) 1.0 Ton	Nos	3
ii	b) 1.5 Ton	Nos	2
2	Estimate additional copper piping with insulation for split units (charged as per final measurement on site). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.	Rft	50
3	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	5

f) RENOVATION OF MATIARI STATION

f1) CIVIL WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>DISMANTLING WORKS</u>		
	Dismantling / removing of existing constructed structures, fixtures, tools & equipment's with all necessary precautionary measures, stacking useable dismantled materials at designated place and disposal of surplus stuff etc. from site, (block masonry, RCC slab, dado/ floor tiles, wooden/ glass door, windows, plaster, wooden partition, aluminum tile, false ceiling, roller shutter, AC / Electrical / Plumbing or any other item which is required to be demolished / removed but not mentioned above)		
a)	Dismantling Wall tile Inside Area	Job	1
b)	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places etc. complete in all respects as per standard specification, and entire satisfaction of The Engineer.	Sft.	3,500
2	<u>TERMITE PROOFING</u>		
	Providing and carrying out termite proofing using FIPROKILL/ BIFLEX / DURSANE or equivalent with a solution of 1 gallon of chemical to 50 gallons of water, sparing this solution @ 2 liters per sq. meter area (or liters per 10.76 sft. Area) with a pressure ensuring at least 3" penetration in the soil of the area to be treated. The contractor will provide a guarantee for a period of ten years against infestation of termite in the shape and mode approved by the Engineer, stating that in case of infestation, additional treatment will be provided by the contractor at no extra cost to the Client (horizontal & Vertical).	Sft.	5,500
3	<u>MS IRON GATE</u>		
	Providing & Installation of main entrance iron gate 16 gauge square pipe frame size of pipe 1.5" inch X 1.5" inch with 18 gauge ms sheet complete with red oxide, paint, hinges & all accessories	Sft	84
3	<u>WATER PROOFING</u>		

	Roof Waterproofing with Full Features Treatment provides a very effective barrier against moisture, leakage seepage and direct rain water. Treatment involves proper cleaning and washing of roof. Proper chemical application and spreading of canvas. Consecutive chemical coating along with canvas provides extremely fine surface and best resistance to rain water. Details as under Preparation: a. Proper cleaning of the roof b. Proper washing of the roof c. Securing scrap in bags without messing up Roof Damage & Cracks Repair d. Proper cement repair of the patches where necessary e. Complete & proper cracks treatment f. Proper filling of cracks joints leaks etc. g. Cloth bandage on all major cracks 4" wide Strip h. Complete roof damage repair & filling of all cracks i. Application of thick coating on bandage for covering Application Procedure j. Application of 1st primer coating k. Application of 2nd coat for surfacing l. Application of 3rd coat for complete covering Final Waterproofing Coating m. Application of 4th coat for waterproofing n. Application of 5th coat for final waterproofing o. Application of 6th extra coat for best results Complete waterproofing complete in all respects Warranty 05 Years		
a)	Roof	Sft	6,500
4	<u>INTERNAL PLASTER</u>		
	Provide and apply 3/4" thick, 1:4 ratio cement and sand, plaster in two coats to all internal faces of walls, columns, beams, ceilings, lintels, recesses and corners. Include hacking of R.C.C. Structure where necessary. Trowel to yield smooth finish with good workmanship. Include cost of scaffolding where required.		
	Internal Plaster	Sft.	14,000
5	<u>P.C.C FLOORING FOR TILING AREA</u>		
	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer		
i)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sft	1,500
6	<u>PORCELAIN TILE ON PANTRY AND BATH FLOOR AND WALL (12"X24")</u>		
	Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 2" to 3" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as per drawing and as directed by the Architect.		
	Flooring (12" x 24") (Charcole For Floor) For Material	Sft	400
	Flooring (12" x 24") (Charcole for Floor) For Labour	Sft	400
	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sft	1,000
	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sft	1,000
7	<u>PORCELAIN TILES ON FLOOR & SKIRTING (24" x 48")</u>		
	Providing and laying of porcelain tiles of 600x1200 mm size porcelain tile (Code: Rokka Malaysia 6012 - Baige) laid with cement / Dry bond of approved colour/shade with grouting including chipping & hacking of existing floor before laying of new tile floor as shown in drawing etc. complete in all respect. including skirting 4" high.	sqm	604

8	<u>FALSE CEILING (Gypsum)</u>		
	Provide and install 24"X 24" False Ceiling (Gypsum DFB Brand) with Aluminum suspension system, complete with instruction by the Engineer (Design and Color approve by the Engineer.)	Sft	6,000
9	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		
	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	Internal Paint (Oil Base Matt Finish) For Material	Sft	4,000
b)	Internal Paint (Oil Base Matt Finish) For Labour	Sft	4,000
10	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as shown on the drawings specifications and/or as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sft	10,000
b)	External Paint For Labour	Sft	10,000
11	<u>PVC PANELS WALL CLADDING</u>		
	Supply and install 10"x9' PVC Panels wall cladding with 08 mm thickness with complete in all respects including rafters and all its accessories design and color as per Engineer in charge.	Sft	12,000
12	<u>DOOR FRAME (INTERNAL DOOR)</u>		
	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as per drawing and as directed by the Engineer.		
	5" x 2"	Rft	250
13	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.	Sft	750
14	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type.		
	Door Lock	Nos	16
15	<u>DOOR CLOSER</u>		
	Provide and install approved Door Closer.		
	Door Closer	Nos	8
16	<u>LAMINATION DOOR MAIN ENTRANCE AREA</u>		

	Fabricating, providing and fixing Double Leaf and double swinging/ Single Swing Lamination Door having solid Oak wood CHOKHAT (anti termite treated) solid frame and 1/2" thick double lamination (anti termite treated) SHUTTER pasted together with Oak wood lipping (anti termite treated) in natural color polish with machine including stainless steel 16 S.W.G kick plates and 16 S.W.G bumper sticker with 8" x 30" vision panel with solid Oak wood beeding and 8mm thick clear glass and also includes of floor machine (New Star Japan), all kinds of best quality hardware, locks, closer, handles, hold fasts, stopper and tower bolt. Complete in all respects as per engineer, specifications, with approved design 3" wide Beading.		
a)	Entrance Door 6'-0' x 7'-0'	Sft	42
17	<u>ALUMINUM WINDOWS</u>		
	Providing, fabricating and fixing in position heavy duty deluxe section approved color anodized aluminum local extruded Pak cable or equivalent (thickness of section 2mm minimum) or size using 4" wide section, 6 mm distortion free approved glass with gasket neoprene channels. Aluminum surfaces shall be anodized in approved color finish and shop protected including all accessories, fittings, rubber, seals, neoprene weather strips between frame and wall and frame edge trimming, gasket, screws, fly screen etc. and approval of the Engineer complete in all respect.		
i)	Window 5'-0"x 7'-0"	Sft.	420
ii)	Window 2'-0"x 7'-0"	Sft.	70
iii)	Toilet Side Window 3'-0" x 4'-0"	Sft.	36
18	<u>DHAKA GRASS</u>		
	Providing and planting dhaka grass @2.5"c/c both way including cost of grass, dreshi, waering, & cuttings complete in all respects till proper handing over	Sft.	4,825
19	<u>PAVER BLOCKS</u>		
	Construction of tuff paver using 60 mm tuff pavers made by concrete concepts with crushing strength from 5000 to 7000 psi, 100x160x190 mm k2 edging stone on both sides Include Civil works complete in all respects as per drawing		
a)	Parking Area	Sft.	3,000
20	<u>EARTH EMBANKMENT FILL</u>		
	Earth work in ordinary soil for embankments lead upto 5 ft, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects: 95% to 100% maximum modified AASHO dry density (2 miles lead)		
a)	Under Dhaka Grass	Cft	1,650
21	<u>GRANITE (TAIWAN GREY GRANITE)</u>		
	Provide and laying 3/4" thick factory polished granite door/window Sills, Thresholds and Borders, Steps for stair case, straight and curve as per site requirement, single piece, as directed by client, fixed 1:2 cement and mortar, color chemical grout including final rubbing finishing and polishing bull nosing carborandom grove where required etc. complete with all respect.		
i)	On Main Entrance Steps, Risers and Platform Band	Sft.	72

f2) PLUMBING WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLY PIPING</u>		
	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	100
ii)	3/4" dia	Rft	80
iii)	1" dia	Rft	75
2	<u>VALVE</u>		
	Providing and installing ball valves of following nominal dia, kitz make, including jointing, fitting, painting, texting, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	6
ii)	1" dia	Each	6
3	<u>SOIL & WASTE WATER SYSTEM</u>		
	<u>uPVC Sewage Pipe.</u>		
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	75
	4" dia	Rft	80
4	<u>FLOOR DRAIN</u>		
	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respect.	Each	5
5	<u>CLEAN OUT</u>		
	Providing, fixing and texting 4" dia uPVC Clean-Out (Floor / ceiling type) with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout. Complete in all respect.	Each	5
6	Providing and fixing CI Gullin trap with chamber and cover complete in all respect.	Each	5
7	<u>TOILET FITTINGS & FIXTURES</u>		


	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	3
8	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	1
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	4
10	<u>KITCHEN SINK</u>		
	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	2
11	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	4
b)	For Kitchen Sink	Each	4
12	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	4
13	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	4
14	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	4
15	<u>TOWEL RAIL</u>		
	Providing and fixing heavy duty SS finish towel rail Maste, complete in all respects.	Each	4
16	<u>MIRROR</u>		

	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	25
17	<u>WATER COOLER</u>		
	Provide and install Heavy Duty Electric Water Cooler full Steel Body (Pel / Hier / Dawalance) as approved with proper fitting of water supply line and drain system as per direction of the Architect.	Nos	2
18	<u>MANHOLES</u>		
	Providing and making of brick masonry (1:5) cement sand mortar manhole of internal size as below as per site requirement including excavation PCC (1:4:8) 4" thick under foundation and bed, making benching with cement concrete (1:2:4) plastering (1:3) cement sand mortar inside and outside & two coats of bitumen painting on outer wall, RCC top slab, including reinforcement steel, 18" dia, heavy duty C.I manhole cover of C.I (NPC, CME Engg). complete in all respect.		
a)	Size 2' x 2'	Each	2
19	Providing and fixing approved quality super Tuff water tank of 2000 gallons capacity including connections etc. complete as shown.	Each	1
20	<u>GEYSER</u>		
	Providing, installing, testing and commissioning electric geyser of 8 gallons capacity including all necessary fittings, valves etc. complete in all respects.	Each	1

f3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
	<u>SECTION - A</u>		
	<u>WIRING INSTALLATION</u>		
1.	Providing and installing light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	25
b)	Light point from point to point.	Nos.	25
c)	Revolving fan point	Nos.	0
d)	Ceiling fan point	Nos.	15
e)	Exhaust fan point	Nos.	5
f)	Circuit wiring from lighting distribution board- L to switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	11
2.	Circuit wiring from lighting distribution board for switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	5

2.1	Providing and installing UPS light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	15
b)	Light point from point to point.	Nos.	8
c)	Revolving fan point	No.	0
d)	Ceiling fan point	Nos.	6
3	Providing and Circuit wiring of following type of Emergency Lighting + Exit Lighting controlled through direct distribution board with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	6
a)	Light point from point to point.	Nos.	4
4.	Providing and installing of circuit wiring from DB for 10 A, Multi socket outlet with 3 x 2.5 sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit concealed/surface mounted with all accessories, sheet steel back boxes with brass earth terminals, and providing and installing 10A Multi socket outlets.	Nos.	6
5.	Providing and installing of circuit wiring from DB to 15A 3 pin switch socket outlets (Duplex or equivalent) wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Duplex or equivalent)	Nos.	3
6.	Providing and installing of circuit wiring Wifi Device from DB to 15A 3 pin switch socket outlets (Simplex) wired with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Simplex)	Nos.	3
7	Providing and installing of circuit wiring (For Motor) from L.DB to 16A 3 pin switch socket outlets wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 16A specified switch socket outlet.	No.	2
8	Providing and wiring of following type of Exhaust Fan controlled through direct distribution board with 3 x 1.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	5
9	Providing & installing wiring for split units from distribution board to respective unit/load break switch with 3 x 6sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit, complete in all respects.	Nos.	3
10	Supply & installation of Floor box of 16 SWG.G.I. Sheet having cover of 12 SWG. Suitable for 1No. 5 Amps Socket, 2 No. 15 Amps. Socket (Dup), 1 No. data outlet , 1 No. Telephone outlet	No.	5
	<u>SWITCHES & SOCKETS</u>		
11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per design drawings.		
11.1	Four gang switch plate	Nos.	9
11.2	Ten gang switch plate	Nos.	9

 SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
11.3	5A, 3 Pin switch socket.	Nos.	8
11.4	15A, Multi socket.	Nos.	8
11.5	15A 3 Pin switch socket	Nos.	8
11.6	16A 3 Pin switch socket.	No.	5
11.7	Fan Dimmer	Nos.	10
12	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.	2
13	<u>GI PIPE</u>	-	-
13.1	Supply and installation of following size of GI conduit including all accessories. Complete in all respect.		
13.2	25mm dia G.I pipe	Rft.	150
	<u>SECTION - B</u>		
	<u>IT NETWORKING</u>		
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.	20
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.	20
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet steel back box.	Nos.	0
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	20
5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	1
6.	Providing and installing of front cable management. Complete with all fixing accessories.	Nos.	1
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brand Rujee)	Nos.	1
9	Providing and Installation of Attendance Machine Completed with all fixing accessories.	No.	1
10	Providing and Installation and connecting up Data Rack 18U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1
11	installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord.		
a)	1.0 m Long (patch panel end)	Nos.	30
b)	3.0 m Long (work station end)	Nos.	10
12	Complete termination & testing of each node.	Job	1
	<u>SECTION - C</u>		
	<u>CCTV SYSTEM.</u>		
1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification	Nos.	10
1.1	Providing and Installation of Network Camera indoor. Resolution: 2 Mega Pixel Night Vision IP Camera with all accessories. Brand Dahua .	Nos.	10

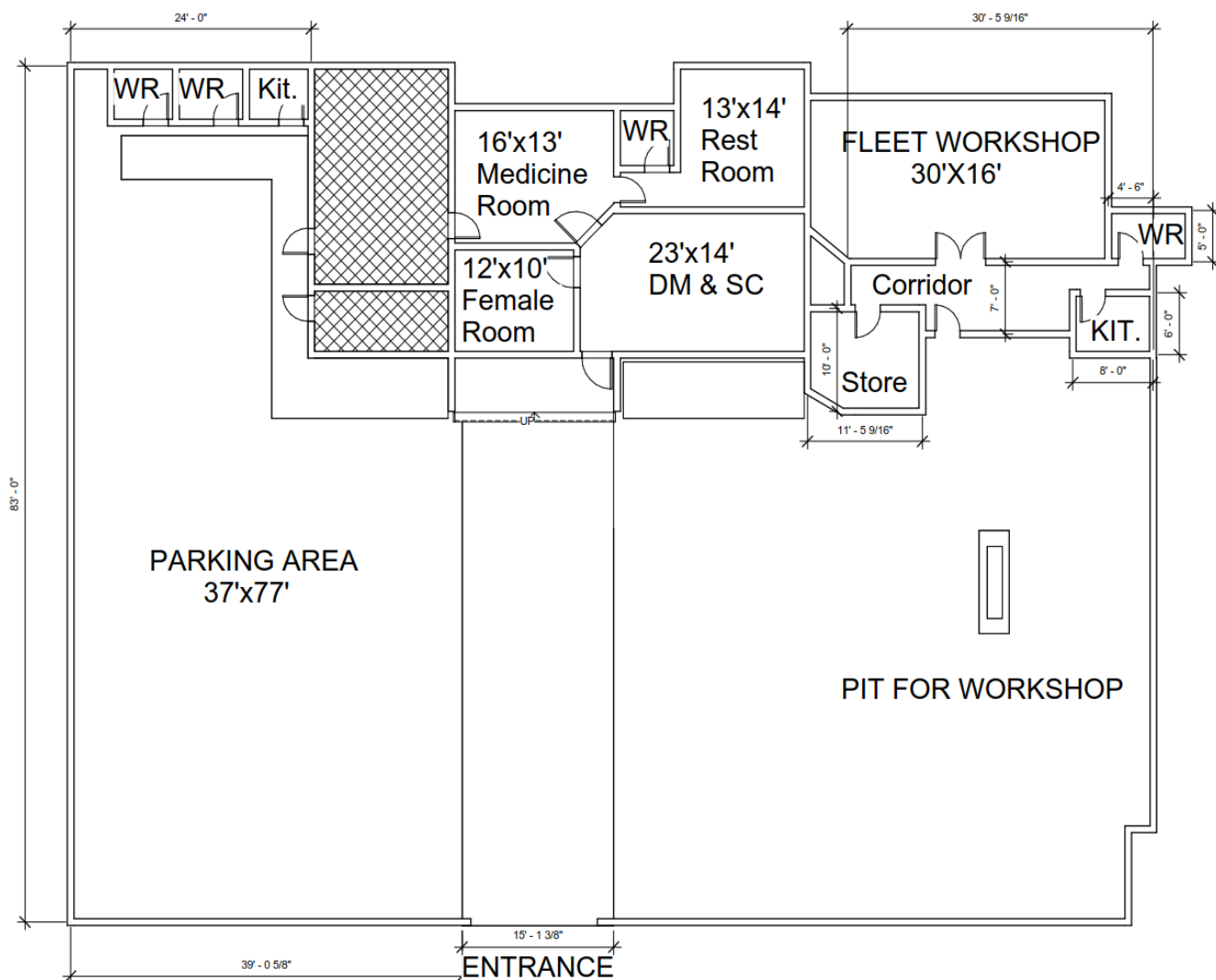
1.2	Providing and Installation of Network Camera outdoor. Resolution: 4 Mega Pixel Night Vision IP Camera with all accessories. Brand Dahua	Nos	4
1.3	Providing and Installation of P.O.E switch 16 Port Brand D-Link	Nos.	2
1.4	Providing and Installation of Iron Angle and PVC box for outdoor cameras		4
2	Providing and Installation of NVR 16 Channels including 4TB Surveillance Hard Drive Brand Dahua	Nos.	1
3	Testing & Commissioning of CCTV system.	Job.	1
	<u>SECTION - D</u>		
	<u>LIGHT FIXTURES & FANS</u>		
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.		
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	20
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval	Nos.	25
c)	<u>Fixture Type - C</u> Surface type TMS Light with 2 x 40 watt. As per architect approval.	Nos.	0
d)	<u>Fixture Type - D</u> LED Rope Light with 1 x 8 watt. As per architect approval.	Rft.	0
e)	<u>Fixture Type - E</u> LED Panel Light with 45 watt. As per architect approval.	Nos.	0
f)	<u>Fixture Type - F</u> Emergency lights with 8 W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	0
g)	<u>Fixture Type - G</u> Emergency Exit Light with 10W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	6
h)	<u>Fixture Type - H</u> Insects killer. As per architect approval.	Nos.	2
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	2
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	15
4.	Supply, installation & connection of Revolving fan, complete with all mounting accessories.	Nos.	0
5.	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	5
6.	Supply, installation & connection of 24" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	0
	<u>SECTION - E</u>		
	<u>SWITCHGEAR</u>		
	<u>MAIN DISTRIBUTION BOARD</u>		

	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.		
1.	Supply & install 150 A TP Box IP-65	Pcs	1
	Supply & install Main DB 12"x18"	Pcs	1
3.	Supply & install Change over 50 A MDB	Pcs	1
4.	Supply & install Under Voltage Trip (UVT).	Pcs	1
5	Supply & install Over Voltage Trip (OVT)	Pcs	1
6	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1
	<u>SECTION - F</u>		
	<u>MAIN/SUB-MAIN CABLES</u>		
a)	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.		
1.	<u>From Wapda Meter to Main DB</u>		
	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	300
2.	<u>From Gen. Set # 1 to Generator Change Over</u>		
	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	100
	<u>SECTION - G</u>		
	<u>EARTHING</u>		
1.	Supply. Installation & Testing of EFE-T Chemical Grounding System with 19mm dia having Heavy-duty Copper Rod 10 Ft. long filled with Soil Conditioning Material with 6" x 25 Ft. Deep Boring with heavy duty PVC Put within Coaster Silver Cover for air breathing with Brass Nuts and Bolts ready to use. upto Test Terminal. For Neutral Earthing the result should be less than 1 Ohm, Complete in all respect.	Nos.	1
2	Same as item No.1 above, but 2.5sq.mm single core PVC wires in 1" dia. PVC pipe from earth pit to Computer / Equipment Distribution board	Rft.	150

f4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		
i	a) 1.0 Ton	Nos	3
ii	b) 1.5 Ton	Nos	2
2	Estimate additional copper piping with insulation for split units (charged as per final measurement on site). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.	Rft	50

3	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	5
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SBA STATION AND FLEET WORKSHOP

g) RENOVATION OF NORTH NAZIMABAD STATION


g1) CIVIL WORK

S.NO	DESCRIPTION	UNIT	QTY
1	<u>DISMANTLING WORKS</u>		

	Dismantling / removing of existing constructed structures, fixtures, tools & equipment's with all necessary precautionary measures, stacking useable dismantled materials at designated place and disposal of surplus stuff disposing off debris from site as directed. from site, (block masonry, RCC slab, dado/ floor tiles, wooden/ glass door, windows, plaster, wooden partition, aluminum tile, false ceiling, roller shutter, AC / Electrical / Plumbing or any other item which is required to be demolished / removed but not mentioned above)		
a)	Dismantling Wall tile Inside Area	Job	1
b)	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places etc. complete in all respects as per standard specification, and entire satisfaction of The Engineer.	Sft.	4731
2	<u>MASONRY WORK</u>		
	<u>Brick Masonry</u>		
	Providing and laying Brick masonry with first class solid burnt brick set in (1:4) cement sand mortar in super structure including scaffolding, curing, drilling for wall ties where brick work joins R.C.C columns, walls etc. Complete in all respects as per specifications to complete satisfaction of the Engineer in charge.		
a)	9" thick Brick Masonry	Sqft.	400
b)	4-1/2" thick Brick Masonry	Sqft.	200
3	<u>MS IRON GATE REPAIRING</u>		
	Repairing of main entrance iron gate 16 gauge square pipe frame size of pipe 1.5" inch X 1.5" inch with 18 gauge ms sheet complete with red oxide, paint, hinges & all accessories	Sqft	160
4	<u>INTERNAL PLASTER</u>		
	Provide and apply 3/4" thick, 1:4 ratio cement and sand, plaster in two coats to all internal faces of walls, columns, beams, ceilings, lintels, recesses and corners. Include hacking of R.C.C. Structure where necessary. Trowel to yield smooth finish with good workmanship. Include cost of scaffolding where required.		
a)	Internal Plaster	Sqft	300
5	<u>P.C.C FLOORING FOR TILING AREA</u>		
	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer		
a)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sqft	96
6	<u>PORCELAIN TILE ON PANTRY AND BATH FLOOR AND WALL (12"X24")</u>		

	Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 1 1/2" to 2" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as directed by the Architect.		
a)	Flooring (12" x 24") (Charcole For Floor) For Material	Sqft	96
b)	Flooring (12" x 24") (Charcole for Floor) For Labour	Sqft	96
c)	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sqft	140
d)	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sqft	140
7	<u>FALSE CEILING (Gypsum)</u>		
	Provide and install 24"X 24" False Ceiling (Gypsum DFB Brand) with Aluminum suspension system, complete with instruction by the Engineer (Design and Color approve by the Engineer.)		
a)	For Electrical, Pantry and Toilet Area	Sqft	2000
8	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		
	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	Internal Paint (Oil Base Matt Finish) For Material	Sqft	3000
b)	Internal Paint (Oil Base Matt Finish) For Labour	Sqft	3000
9	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sqft	10000
b)	External Paint For Labour	Sqft	10000
10	<u>PVC PANELS WALL CLADDING</u>		
	Supply and install 10"x9' PVC Panels wall cladding with 08 mm thickness with complete in all respects including rafters and all its accessories design and color as per Engineer in charge.	Sqft	6000
11	<u>DOOR FRAME (INTERNAL DOOR)</u>		
	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as directed by the Engineer.		
	5" x 2"	Rft	108
12	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.	Sqft	550

13	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type.		
	Door Lock	Nos	12
14	<u>DOOR CLOSER</u>		
	Provide and install approved Door Closer.		
	Door Closer	Nos	4
15	<u>ALUMINUM WINDOWS</u>		
	Providing, fabricating and fixing in position heavy duty deluxe section approved color anodized aluminum local extruded Pak cable or equivalent (thickness of section 2mm minimum) or size using 4" wide section, 6 mm distortion free approved glass with gasket neoprene channels. Aluminum surfaces shall be anodized in approved color finish and shop protected including all accessories, fittings, rubber, seals, neoprene weather strips between frame and wall and frame edge trimming, gasket, screws, fly screen etc. and approval of the Engineer complete in all respect.		
i)	Window 5'-0"x 7'-0"	Sft.	350
ii)	Window 2'-0"x 7'-0"	Sft.	50
iii)	Toilet Side Window 1'-6" x 2'-0"	Sft.	24
16	<u>SECURITY GRILLS FOR WINDOWS</u>		
	<u>Wrought Iron Grill</u>		
i)	Providing and Fixing M.S Security Grills to windows, comprising of 1/2" square bars @ 6" c/c 16 gauge, welding, grinding, finishing, rubbing 3 coat of enamel paint (KANSAI/ICI,NIPPON,BERGER) red oxide before paint. Complete in all respects, as per standardized design.		
	Windows	Sqft	80
17	<u>MS GRILL FOR BOUNDARY</u>		
	Providing and fixing M.S grill consisting of 1" x 1", 16-SWG M.S square pipe frame with 2 rows of horizontally & equal dividing panels vertically in the same frame and 1/2" M.S square bars 6" c/c welded to each another & frame horizontally with 2 rows of equal dividing in three panels vertically and design i/c masonry hold fast, grouting hold fast in cement concrete (1:2:4) and enamel painting 3-coats with one base coat of red oxide paint complete in all respect as approved and directed by The Engineer.	Sqft	1200
18	<u>CAST IRON MANHOLE COVERS</u>		
	Providing CI Manhole Cover & Frame i/c Cost of Material etc	KG	30
19	<u>PAVER BLOCKS</u>		
	Construction of tuff paver using 60 mm tuff pavers made by concrete concepts with crushing strength from 5000 to 7000 psi, 100x160x190 mm k2 edging stone on both sides Include Civil works complete in all respects as per instructions of engineer.		
a	5' wide path	Sqft	1600

 SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
b	Parking Area	Sqft	3600
20	<u>EARTH EMBANKMENT FILL</u>		
	Earth work in ordinary soil for embankments lead upto 5 ft, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects: 95% to 100% maximum modified AASHO dry density (2 miles lead)		
a	Under Tuff Paver Path	Cft	980
21	<u>GRANITE (TAIWAN GREY GRANITE)</u>		
	Provide and laying 3/4" thick factory polished granite door/window Sills, Thresholds and Borders, Steps for stair case, straight and curve as per site requirement, single piece, as directed by client, fixed 1:2 cement and mortar, color chemical grout including final rubbing finishing and polishing bull nosing carborandom grove where required etc. complete with all respect.		
a)	On Main Entrance Steps, Risers and Platform Band	Sqft	40

g2) PLUMBING WORK


S.NO	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLYN PIPING</u>		
	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or susp[ended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	250
ii)	3/4" dia	Rft	300
iii)	1" dia	Rft	150
iv)	1 1/2" dia	Rft	100
2	<u>VALVE</u>		
	Providing and installing ball valves of following niminal dia, kitz make, including jointing, fitting, painting, textng, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	5
ii)	1" dia	Each	5
iii)	1 1/2" dia	Each	3
3	<u>SOIL & WASTE WATER SYSTEM</u>	-	

	<u>uPVC Sewage Pipe.</u>	-	
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	150
	4" dia	Rft	120
4	<u>FLOOR DRAIN</u>	-	
	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respect.	Each	6
5	<u>CLEAN OUT</u>	-	-
	Providing, fixing and texting 4" dia uPVC Clean-Out (Floor / ceiling type) with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout. Complete in all respect.	Each	4
6	Providing and fixing CI Gullin trap with chamber and cover complete in all respect.	Each	4
7	<u>TOILET FITTINGS & FIXTURES</u>		
	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	2
8	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	2
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	4
10	<u>KITCHEN SINK</u>		

	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	1
11	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	4
b)	For Kitchen Sink	Each	1
12	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	4
13	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	4
14	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	4
15	<u>TOWEL RAIL</u>		
	Providing and fixing heavy duty SS finish towel rail Maste, complete in all respects.	Each	4
16	<u>MIRROR</u>		
	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	40
17	<u>MANHOLES</u>		
	Providing and making of brick masonry (1:5) cement sand mortar manhole of internal size as below as per site requirement including excavation PCC (1:4:8) 4" thick under foundation and bed, making benching with cement concrete (1:2:4) plastering (1:3) cement sand mortar inside and outside & two coats of bitumen painting on outer wall, RCC top slab, including reinforcement steel, 18" dia, heavy duty C.I manhole cover of C.I (NPC, CME Engg). complete in all respect.		
a)	Size 2' x 2'	Each	2
18	Providing and fixing approved quality super Tuff water tank of 2000 gallons capacity including connections etc. compleete as shown.	Each	1


g3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
	<u>SECTION - A</u>		
	<u>WIRING INSTALLATION</u>		
1.	Providing and installing light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	60
b)	Light point from point to point.	Nos.	35
c)	Revolving fan point	Nos.	0
d)	Ceiling fan point	Nos.	6
e)	Exhaust fan point	Nos.	6
f)	Circuit wiring from lighting distribution board- L to switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	11
2.	Circuit wiring from lighting distribution board for switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	6
2.1	Providing and installing UPS light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	6
b)	Light point from point to point.	Nos.	8
c)	Revolving fan point	No.	0
d)	Bracket fan point	Nos.	2
3	Providing and Circuit wiring of following type of Emergency Lighting + Exit Lighting controlled through direct distribution board with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	4
a)	Light point from point to point.	Nos.	2
4.	Providing and installing of circuit wiring from DB for 10 A, Multi socket outlet with 3 x 2.5 sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit concealed/surface mounted with all accessories, sheet steel back boxes with brass earth terminals, and providing and installing 10A Multi socket outlets.	Nos.	6

 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES		SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
5.	Providing and installing of circuit wiring from DB to 15A 3 pin switch socket outlets (Duplex or equivalent) wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Duplex or equivalent)	Nos.	3		
6.	Providing and installing of circuit wiring Wifi Device from DB to 15A 3 pin switch socket outlets (Simplex) wired with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Simplex)	Nos.	5		
7	Providing and installing of circuit wiring (For Motor) from L.DB to 16A 3 pin switch socket outlets wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 16A specified switch socket outlet.	No.	2		
8	Providing and wiring of following type of Exhaust Fan controlled through direct distribution board with 3 x 1.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	5		
9	Providing & installing wiring for split units from distribution board to respective unit/load break switch with 3 x 6sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit, complete in all respects.	Nos.	3		
10	Supply & installation of Floor box of 16 SWG.G.I. Sheet having cover of 12 SWG. Suitable for 1No. 5 Amps Socket, 2 No. 15 Amps. Socket (Dup), 1 No. data outlet , 1 No. Telephone outlet	No.	5		
	<u>SWITCHES & SOCKETS</u>				
11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per design drawings.				
11.1	Four gang switch plate	Nos.	12		
11.2	Ten gang switch plate	Nos.	12		
11.3	5A, 3 Pin switch socket.	Nos.	10		
11.4	15A, Multi socket.	Nos.	10		
11.5	15A 3 Pin switch socket	Nos.	5		
11.6	16A 3 Pin switch socket.	No.	5		
11.7	Fan Dimmer	Nos.	13		
12	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.	1		
13	<u>GI PIPE</u>				

13.1	Supply and installation of following size of GI conduit including all accessories. Complete in all respect.		
13.2	25mm dia G.I pipe	Rft.	80
	<u>SECTION - B</u>		
	<u>IT NETWORKING</u>		
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.	20
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.	20
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet steel back box.	Nos.	0
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	20
5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	1
6.	Providing and installing of front cable management. Complete with all fixing accessories.	Nos.	1
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brand Rujee)	Nos.	1
9	Providing and Installation of Attendance Machine Completed with all fixing accessories.	No.	1
10	Providing and Installation and connecting up Data Rack 18U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1
11	installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord.		
a)	1.0 m Long (patch panel end)	Nos.	30
b)	3.0 m Long (work station end)	Nos.	10
12	Complete termination & testing of each node.	Job	1
	<u>SECTION - C</u>		
	<u>CCTV SYSTEM.</u>		
1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification	Nos.	10
1.1	Providing and Installation of Network Camera indoor. Resolution: 2 Mega Pixel Night Vision IP Camera with all accessories. Brand Dahua .	Nos.	6
1.2	Providing and Installation of Network Camera outdoor. Resolution: 4 Mega Pixel Night Vision IP Camera with all accessories. Brand Dahua	Nos	6
1.3	Providing and Installation of P.O.E switch 16 Port Brand D-Link	Nos.	2
1.4	Providing and Installation of Iron Angle and PVC box for outdoor cameras	Nos	6

2	Proving and Installation of NVR 16 Channels including 4TB Surveillance Hard Drive Brand Dahua	Nos.	1
3	Testing & Commissioning of CCTV system.	Job.	1
	<u>SECTION - D</u>		
	<u>LIGHT FIXTURES & FANS</u>		
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.		
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	12
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval	Nos.	16
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	2
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	6
4	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	6
	<u>SECTION - E</u>		
	<u>SWITCHGEAR</u>		
	<u>MAIN DISTRIBUTION BOARD</u>		
	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.		
1.	Supply & install 150 A TP Box IP-65	Pcs	1
2	Supply & install Main DB 12"x18"	Pcs	1
3.	Supply & install Change over 50 A MDB	Pcs	1
4.	Supply & install Under Voltage Trip (UVT).	Pcs	1
5	Supply & install Over Voltage Trip (OVT)	Pcs	1
6	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1
	<u>SECTION - F</u>		
	<u>MAIN/SUB-MAIN CABLES</u>		
a)	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.		
1.	<u>From KESC Meter to Main DB</u>		
	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	200
2.	<u>From Gen. Set # 1 to Generator Change Over</u>		
	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	100
	<u>SECTION - G</u>		
	<u>EARTHING</u>		

	SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS	RENOVATION OF STATIONS
1.	Supply. Installation & Testing of EFE-T Chemical Grounding System with 19mm dia having Heavy-duty Copper Rod 10 Ft. long filled with Soil Conditioning Material with 6" x 25 Ft. Deep Boring with heavy duty PVC Put within Coaster Silver Cover for air breathing with Brass Nuts and Bolts ready to use. upto Test Terminal. For Neutral Earthing the result should be less than 1 Ohm, Complete in all respect.	Nos. 1
2	Same as item No.1 above, but 2.5sq.mm single core PVC wires in 1" dia. PVC pipe from earth pit to Computer / Equipment Distribution board	Rft. 150

g4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		
i	a) 1.0 Ton	Nos	1
ii	b) 1.5 Ton	Nos	2
2	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	3

h) RENOVATION OF DAUR TOWN STATION

h1) CIVIL WORK


S.NO	DESCRIPTION	UNIT	QTY
1	<u>DISMANTLING WORKS</u>		
	Dismantling / removing of existing constructed structures, fixtures, tools & equipment's with all necessary precautionary measures, stacking useable dismantled materials at designated place and disposal of surplus stuff disposing off debris from site as directed. from site, (block masonry, RCC slab, dado/ floor tiles, wooden/ glass door, windows, plaster, wooden partition, aluminum tile, false ceiling, roller shutter, AC / Electrical / Plumbing or any other item which is required to be demolished / removed but not mentioned above)		
a)	Dismantling Wall tile Inside Area	Job	1
b)	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places etc. complete in all respects as per standard specification, and entire satisfaction of The Engineer.	Sft.	4,731
2	<u>TERMITE PROOFING</u>		

	Providing and carrying out termite proofing using FIPROKILL/ BIFLEX / DURSANE or equivalent with a solution of 1 gallon of chemical to 50 gallons of water, spraying this solution @ 2 liters per sq. meter area (or liters per 10.76 sft. Area) with a pressure ensuring at least 3" penetration in the soil of the area to be treated. The contractor will provide a guarantee for a period of ten years against infestation of termite in the shape and mode approved by the Engineer, stating that in case of infestation, additional treatment will be provided by the contractor at no extra cost to the Client (horizontal & Vertical).	Sft.	3,600
3	<u>MASONRY WORK</u>		
	<u>Brick Masonry</u>		
	Providing and laying Brick masonry with first class solid burnt brick set in (1:4) cement sand mortar in super structure including scaffolding, curing, drilling for wall ties where brick work joins R.C.C columns, walls etc. Complete in all respects as per specifications to complete satisfaction of the Engineer in charge.		
a)	9" thick Brick Masonry	Sft.	1,500
b)	4-1/2" thick Brick Masonry	Sft.	800
4	<u>R.C.C. COLUMNS FOR MAIN GATE</u>		
	Provide and lay 2'x2' COLUMNS 7ft high using 1:2:4 reinforce, cement concrete etc. Complete with curing, leveling and anchoring with dowels embedded while casting including the cost of steel, Complete in all respects with plaster and paint finish etc and conforming to the requirements of the Engineer.		
a)	2'x2'x6' RCC Column	no	2
b)	3'x3'x6" RCC Foundation	no	2
c)	1/2" thick Plaster Work	Sft.	480
5	<u>MS IRON GATE</u>		
	Providing & Installation of main entrance iron gate 16 gauge square pipe frame size of pipe 1.5" inch X 1.5" inch with 18 gauge ms sheet complete with red oxide, paint, hinges & all accessories	Sft	160
6	<u>WATER PROOFING</u>		

	<p>Roof Waterproofing with Full Features Treatment provides a very effective barrier against moisture, leakage seepage and direct rain water. Treatment involves proper cleaning and washing of roof.</p> <p>Proper chemical application and spreading of canvas. Consecutive chemical coating along with canvas provides extremely fine surface and best resistance to rain water. Details as under</p> <p>Preparation:</p> <ol style="list-style-type: none"> Proper cleaning of the roof Proper washing of the roof Securing scrap in bags without messing up Roof Damage & Cracks Repair Proper cement repair of the patches where necessary Complete & proper cracks treatment Proper filling of cracks joints leaks etc. Cloth bandage on all major cracks 4" wide Strip Complete roof damage repair & filling of all cracks Application of thick coating on bandage for covering Application Procedure Application of 1st primer coating Application of 2nd coat for surfacing Application of 3rd coat for complete covering Final Waterproofing Coating Application of 4th coat for waterproofing Application of 5th coat for final waterproofing Application of 6th extra coat for best results <p>Complete waterproofing complete in all respects Warranty 05 Years</p>		
a)	Roof	Sft	3,000
7	<u>INTERNAL PLASTER</u>		
	Provide and apply 3/4" thick, 1:4 ratio cement and sand, plaster in two coats to all internal faces of walls, columns, beams, ceilings, lintels, recesses and corners. Include hacking of R.C.C. Structure where necessary. Trowel to yield smooth finish with good workmanship. Include cost of scaffolding where required.		
a)	Internal Plaster	Sft.	1,500
8	<u>P.C.C FLOORING FOR TILING AREA</u>		
	Providing and laying Plain Cement Concrete under floors in required panels (thickness and ratio as indicate in sub items below) including leveling, compacting, curing etc. including from work if required and its removal, using 1-1/2" down graded crushed stone as coarse aggregate, approved local sand. Complete in all respects as per specifications and / or as directed by the Architect / Engineer		
a)	P.C.C (1:2:4) 75mm thick, top made rough to receive floor finishes.	Sft	1,200
9	<u>PORCELAIN TILE ON PANTRY AND BATH FLOOR AND WALL (12"X24")</u>		

	Provide and laying Porcelain imported floor / wall Tile (12" x 24") (Tile Code: Charcole and Light Grey) for floor and Wall, tiles on 1 1/2" to 2" thick cement sand 1:6 bed to required levels falls and pattern including bacteria resistance grouting complete as directed by the Architect.		
a)	Flooring (12" x 24") (Charcole For Floor) For Material	Sft	1,200
b)	Flooring (12" x 24") (Charcole for Floor) For Labour	Sft	1,200
c)	Wall Dado (12" x 24") (Light Grey for Wall) For Material	Sft	1,500
d)	Wall Dado (12" x 24") (Light Grey for Wall) For Labour	Sft	1,500
10	<u>FALSE CEILING (Gypsum)</u>		
	Provide and install 24"X 24" False Ceiling (Gypsum DFB Brand) with Aluminum suspension system, complete with instruction by the Engineer (Design and Color approve by the Engineer.)		
a)	For Electrical, Pantry and Toilet Area	Sft	4,000
11	<u>INTERNAL PAINT (Oil Base Matt Finish)</u>		
	Provide and apply with roller 4 coats of (Blue Bird/ICI / Kansai / Nippon or equivalent) Paint to internal plastered walls, partitions, structural ceiling including grinding, cleaning, rubbing, sanding, filling and preparing base with primer coat; all to be done in strict accordance with the manufacturer's specification complete with finish.(Oil Base Matt Finish)		
a)	Internal Paint (Oil Base Matt Finish) For Material	Sft	3,000
b)	Internal Paint (Oil Base Matt Finish) For Labour	Sft	3,000
12	<u>EXTERNAL PAINT</u>		
	Provide and apply with Roller Matt Enamel paint WEATHER SHIELD (Blue Bird/ICI / Kansai / Nippon or equivalent) minimum three coats of approved shade over a coat of primer to internal plastered surfaces, base preparation, primer, smooth filling etc. complete in all respect as directed by the Architect/ Engineer.		
a)	External Paint For Material	Sft	8,000
b)	External Paint For Labour	Sft	8,000
13	<u>PVC PANELS WALL CLADDING</u>		
	Supply and install 10"x9' PVC Panels wall cladding with 08 mm thickness with complete in all respects including rafters and all its accessories design and color as per Engineer in charge.	Sft	9,400
14	<u>DOOR FRAME (INTERNAL DOOR)</u>		
	Provide, make and install Oak wood door frames to take solid core as required, including beading, rebates, door stops, and itraves as required. Including shape Beading complete as directed by the Engineer.		
	5" x 2"	Rft	250
15	<u>DOOR SHUTTER (INTERNAL DOOR)</u>		
	Provide and install lamination shutters with Oak lipping including brass hinges, foot operated door stopper.	Sft	350
16	<u>DOOR LOCK</u>		
	Provide and install approved Door lock lever type.		

	Door Lock	Nos	8
17	<u>DOOR CLOSER</u>		
	Provide and install approved Door Closer.		
	Door Closer	Nos	4
18	<u>LAMINATION DOOR MAIN ENTRANCE AREA</u>		
	Fabricating, providing and fixing Double Leaf and double swinging/ Single Swing Lamination Door having solid Oak wood CHOKHAT (anti termite treated) solid frame and 1/2" thick double lamination (anti termite treated) SHUTTER pasted together with Oak wood lipping (anti termite treated) in natural color polish with machine including stainless steel 16 S.W.G kick plates and 16 S.W.G bumper sticker with 8" x 30" vision panel with solid Oak wood beeding and 8mm thick clear glass and also includes of floor machine (New Star Japan), all kinds of best quality hardware, locks, closer, handles, hold fasts, stopper and tower bolt. Complete in all respects as per engineer, specifications, with approved design 3" wide Beading.		
a)	Entrance Door 6'-0' x 7'-0'	Sft	42
19	<u>ALUMINUM WINDOWS</u>		
	Providing, fabricating and fixing in position heavy duty deluxe section approved color anodized aluminum local extruded Pak cable or equivalent (thickness of section 2mm minimum) or size using 4" wide section, 6 mm distortion free approved glass with gasket neoprene channels. Aluminum surfaces shall be anodized in approved color finish and shop protected including all accessories, fittings, rubber, seals, neoprene weather strips between frame and wall and frame edge trimming, gasket, screws, fly screen etc. and approval of the Engineer complete in all respect.		
a)	Window 5'-0"x 7'-0"	Sft.	250
b)	Window 2'-0"x 7'-0"	Sft.	50
c)	Toilet Side Window 3'-0" x 4'-0"	Sft.	24
20	<u>SECURITY GRILLS FOR WINDOWS</u>		
	<u>Wrought Iron Grill</u>		
a)	Providing and Fixing M.S Security Grills to windows, comprising of 1/2" square bars @ 6" c/c 16 gauge, welding, grinding, finishing, rubbing 3 coat of enamel paint (KANSAI/ICI,NIPPON,BERGER) red oxide before paint. Complete in all respects, as per standardized design.		
	Windows	Sft	250
21	<u>MS GRILL FOR BOUNDARY</u>		


 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES		SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
	Providing and fixing M.S grill consisting of 1" x 1", 16-SWG M.S square pipe frame with 2 rows of horizontally & equal dividing panels vertically in the same frame and 1/2" M.S square bars 6" c/c welded to each another & frame horizontally with 2 rows of equal dividing in three panels vertically and design i/c masonry hold fast, grouting hold fast in cement concrete (1:2:4) and enamel painting 3-coats with one base coat of red oxide paint complete in all respect as approved and directed by The Engineer.	Sft.	1,050		
22	<u>CAST IRON MANHOLE COVERS</u>				
	Providing CI Manhole Cover & Frame i/c Cost of Material etc	KG	40		
23	<u>PAVER BLOCKS</u>				
	Construction of tuff paver using 60 mm tuff pavers made by concrete concepts with crushing strength from 5000 to 7000 psi, 100x160x190 mm k2 edging stone on both sides Include Civil works complete in all respects as per instructions of engineer.				
a)	5' wide path	Sft.	1,200		
b)	Parking Area	Sft.	2,800		
24	<u>EARTH EMBANKMENT FILL</u>				
	Earth work in ordinary soil for embankments lead upto 5 ft, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects: 95% to 100% maximum modified AASHO dry density (2 miles lead)				
a	Under Tuff Paver Path	Cft	1,400		
25	<u>GRANITE (TAIWAN GREY GRANITE)</u>				
	Provide and laying 3/4" thick factory polished granite door/window Sills, Thresholds and Borders, Steps for stair case, straight and curve as per site requirement, single piece, as directed by client, fixed 1:2 cement and mortar, color chemical grout including final rubbing finishing and polishing bull nosing carborandom grove where required etc. complete with all respect.				
a)	On Main Entrance Steps, Risers and Platform Band	Sft.	30		

h2) PLUMBING WORK

S.NO.	DESCRIPTION	UNIT	QTY
1	<u>WATER SUPPLYN PIPING</u>		

	Providing, fixing, jointing and testing Polypropylene Random (PPR) pipes Dadex make, "Polydex" or approved equivalent pressure pipe for cold water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, cutting and making good the chases and holes, complete in all respects.		
i)	1/2" dia	Rft	200
ii)	3/4" dia	Rft	250
iii)	1" dia	Rft	120
iv)	1 1/2" dia	Rft	80
2	<u>VALVE</u>		
	Providing and installing ball valves of following nominal dia, kitz make, including jointing, fitting, painting, texting, complete in all respects to match with following G.I pipe diameters.		
i)	3/4" dia	Each	5
ii)	1" dia	Each	5
iii)	1 1/2" dia	Each	3
3	<u>SOIL & WASTE WATER SYSTEM</u>	-	
	<u>uPVC Sewage Pipe.</u>	-	
	Providing, fixing, cutting, jointing and testing uPVC piping confirming to ISO 3633:1991 (wall thickness=3.2 mm) including uPVC fittings with solvent cement jointing Dadex make "Nikasi Type B" or approved equal, rates include cost of clamping to walls and ceiling, hangers, supports, cutting through walls and providing sleeves through concrete slabs for pipelines and pipe fittings of the following diameter.		
	3" dia	Rft	150
	4" dia	Rft	120
4	<u>FLOOR DRAIN</u>	-	
	Providing, fixing and texting approved equivalent 4" dia make uPVC Floor Drain of approved design with PVC grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout. Complete in all respect.	Each	4
5	<u>CLEAN OUT</u>	-	-
	Providing, fixing and texting 4" dia uPVC Clean-Out (Floor / ceiling type) with cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout. Complete in all respect.	Each	4
6	Providing and fixing CI Gullin trap with chamber and cover complete in all respect.	Each	4


7	<u>TOILET FITTINGS & FIXTURES</u>		
	<u>WATER CLOSET EUROPEAN TYPE</u>		
	Providing, fixing and testing European type Water Closet (make Porta/Dynasty) including all accessories and fittings of (make Sonex/Master) water pipe, P/S traps, including seat and cover, all joints to services and screwing as necessary to the structure as approved by Consultant.	Each	1
8	<u>WATER CLOSET SQUATTER TYPE</u>		
	Providing and fitting Glazed earthen ware water closet, squatter type (Orissa pattern), combined with foot rest, Best Quality including Plastic made Flushing tank, tee stop cock for cistern water inlet and C.P connector with nuts and fitting (Sonex / Master make), approved other ancillary material complete in all respect as per approved by Consultant.	Each	2
9	<u>WASH BASIN</u>		
	Providing and fixing wash hand basin pedestal type 22" x 16" white / light colour, "PORTA" make waste coupling, plug with C.P brass chain, 1-1/2" dia P.V.C (D-type) waste pipe, connections to water lines. C.P grating including C.P bottle trap, testing etc in all respect, as approved by Consultant.	Each	3
10	<u>KITCHEN SINK</u>		
	Providing and fixing stainless steel kitchen sink single bowl of 20 gauge of approved quality including, brackets, screws, 15 mm dia C.P brass T. stop cocks of Master, Sonex, 40 mm dia heavy duty waste coupling and PVC flexible waste pipe of approved make and quality complete all respects, as approved by Consultant.	Each	1
11	<u>TOILET ACCESSORIES</u>		
	<u>WATER MIXER</u>		
	Providing and fixing 15 mm dia C.P. fitting single lever of water mixer make "Master", C.P. pipe 15 mm dia, including pipe connections, al fittings, testing etc, complete in all respect, as approved by Consultant.		
a)	For Wash basin / Vanity	Each	3
b)	For Kitchen Sink	Each	1
12	<u>MUSLIM SHOWER</u>		
	S.S double bibcock with original Master Muslim Shower with flexible pipe complete in all respect.	Each	3
13	<u>SOAP DISH</u>		
	Providing and fixing soap dish heavy duty SS finish Master or an approved equivalent complete in all respect.	Each	3
14	<u>TOILET PAPER HOLDER</u>		
	Providing and fixing heavy duty SS finish toilet paper holder Master or approved equivalent complete in all respects.	Each	3
15	<u>TOWEL RAIL</u>		

 SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
	Providing and fixing heavy duty SS finish towel rail Maste, complete in all respects.	Each	3
16	<u>MIRROR</u>		
	Provide and install 6mm thick Belgium/Japanese imported mirror, with polished edges ply wood backing with S.S frame, including MDF board base fixed with 20 mm minimum stainless steel round headed bolts.	Sft	40
17	<u>MANHOLES</u>		
	Providing and making of brick masonry (1:5) cement sand mortar manhole of internal size as below as per site requirement including excavation PCC (1:4:8) 4" thick under foundation and bed, making benching with cement concrete (1:2:4) plastering (1:3) cement sand mortar inside and outside & two coats of bitumen painting on outer wall, RCC top slab, including reinforcement steel, 18" dia, heavy duty C.I manhole cover of C.I (NPC, CME Engg). complete in all respect.		
a)	Size 2' x 2'	Each	2
18	Providing and fixing approved quality super Tuff water tank of 2000 gallons capacity including connections etc. complete as shown.	Each	1


h3) ELECTRICAL WORK

S.NO	DESCRIPTION	UNIT	QTY
	<u>SECTION - A</u>		
	<u>WIRING INSTALLATION</u>		
1.	Providing and installing light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	46
b)	Light point from point to point.	Nos.	26
c)	Revolving fan point	Nos.	0
d)	Ceiling fan point	Nos.	6
e)	Exhaust fan point	Nos.	3
f)	Circuit wiring from lighting distribution board- L to switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	10
2.	Circuit wiring from lighting distribution board for switch/lighting point with 3 x 2.5sq.mm in 1" dia. PVC conduit complete with all accessories.	Nos.	5

2.1	Providing and installing UPS light and fan point wiring with 3 x 1.5sq.mm single core PVC insulated 450/750V grade copper wires in 1" dia. PVC conduit surface/concealed mounted including all accessories, connectors switches with specified cover plates, sheet steel back boxes with brass earth terminal, 1.0 sq.mm 3-core PVC/PVC cable in flexible PVC conduit for final connection complete in all respect.		
a)	Light point controlled by one switch.	Nos.	6
b)	Light point from point to point.	Nos.	8
c)	Revolving fan point	No.	0
d)	Ceiling fan point	Nos.	2
3	Providing and Circuit wiring of following type of Emergency Lighting + Exit Lighting controlled through direct distribution board with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	4
a)	Light point from point to point.	Nos.	2
4.	Providing and installing of circuit wiring from DB for 10 A, Multi socket outlet with 3 x 2.5 sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit concealed/surface mounted with all accessories, sheet steel back boxes with brass earth terminals, and providing and installing 10A Multi socket outlets.	Nos.	6
5.	Providing and installing of circuit wiring from DB to 15A 3 pin switch socket outlets (Duplex or equivalent) wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Duplex or equivalent)	Nos.	3
6.	Providing and installing of circuit wiring Wifi Device from DB to 15A 3 pin switch socket outlets (Simplex) wired with 3 x 2.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 15A specified switch socket outlet.(Simplex)	Nos.	3
7	Providing and installing of circuit wiring (For Motor) from L.DB to 16A 3 pin switch socket outlets wired with 3 x 4 sq mm single core PVC insulated copper wires in 1" dia PVC conduit, surface/ concealed mounted with all accessories, sheet steel back boxes with brass earth terminal. and providing and installing 3 pin, 16A specified switch socket outlet.	No.	2
8	Providing and wiring of following type of Exhaust Fan controlled through direct distribution board with 3 x 1.5 sq mm single core PVC insulated copper wires in 1" dia PVC conduit. complete in all respect.	Nos.	3

 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES		SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
9	Providing & installing wiring for split units from distribution board to respective unit/load break switch with 3 x 6sq.mm single core PVC insulated copper wires in 1" dia. PVC conduit, complete in all respects.	Nos.	3		
10	Supply & installation of Floor box of 16 SWG.G.I. Sheet having cover of 12 SWG. Suitable for 1No. 5 Amps Socket, 2 No. 15 Amps. Socket (Dup), 1 No. data outlet , 1 No. Telephone outlet	No.	5		
	<u>SWITCHES & SOCKETS</u>				
11	Supply and installation of following 10A, one-way gang type switches / sockets MK /Clipsal including 16 SWG sheet steel back boxes, recessed on wall or column as per design drawings.				
11.1	Four gang switch plate	Nos.	6		
11.2	Ten gang switch plate	Nos.	6		
11.3	5A, 3 Pin switch socket.	Nos.	5		
11.4	15A, Multi socket.	Nos.	5		
11.5	15A 3 Pin switch socket	Nos.	5		
11.6	16A 3 Pin switch socket.	No.	5		
11.7	Fan Dimmer	Nos.	7		
12	Providing, Installation, testing and commissioning of 32A Change over in M.s box for UPS.	No.	1		
13	<u>GI PIPE</u>	-	-		
13.1	Supply and installation of following size of GI conduit including all accessories. Complete in all respect.				
13.2	25mm dia G.I pipe	Rft.	100		
	<u>SECTION - B</u>				
	<u>IT NETWORKING</u>				
1.	Providing and installing of data outlet point with 1" dia pvc conduit concealed mounted including sheet steel back box.	Nos.	10		
2.	Providing and installing of 4 Pair Cat-6A F/UTP Cable Make 3M	Nos.	15		
3.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Simplex) + I/O including sheet steel back box.	Nos.	0		
4.	Providing & connecting of Cat-6 RJ- 45 Face Plate (Duplex) + I/O including sheet steel back box.	Nos.	10		
5.	Providing & connecting of Cat-6 cable, Face Plate + I/O for IP based telephone point.	Nos.	1		
6.	Providing and installing of front cable management.Complete with all fixing accessories.	Nos.	1		
7.	Supply of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1		
7.1	Installation of Cat-6 24 - port patch panel Completed with all fixing accessories.	Nos.	1		
8	Provide and Installation of Wifi Device Completed with all fixing accessories. (Preferred brandRujee)	Nos.	2		

9	Providing and Installation of Attendance Machine Completed with all fixing accessories.	No.	1
10	Providing and Installation and connecting up Data Rack 18U Wall Mounted. Complete with all mounting accessories. Three sides open with two 220 volt fans	No.	1
11	installation and connecting up of certified cat - 6, 4 pair (RJ45 TO RJ45 type plugs) patch cord.		
a)	1.0 m Long (patch panel end)	Nos.	15
b)	3.0 m Long (work station end)	Nos.	10
12	Complete termination & testing of each node.	Job	1
	<u>SECTION - C</u>		
	<u>CCTV SYSTEM.</u>		
1.	Supply, Installation & Connecting CAT-6 cable 3M make to be drawn in & including 1" dia PVC conduits as per specification	Nos.	14
1.1	Providing and Installation of Network Camera indoor. Resolution: 2 Mega Pixel Night Vision IP Camera with all accessories. Brand Dahua	Nos.	8
1.2	Providing and Installation of Network Camera outdoor. Resolution: 4 Mega Pixel Night Vision IP Camera with all accessories. Brand Dahua	Nos	8
1.3	Providing and Installation of P.O.E switch 16 Port Brand D-Link	Nos.	2
1.4	Providing and Installation of Iron Angle and PVC box for outdoor cameras	Nos	8
2	Proving and Installation of NVR 16 Channels including 4TB Surveillance Hard Drive Brand Dahua	Nos.	1
3	Testing & Commissioning of CCTV system.	Job.	1
	<u>SECTION - D</u>		
	<u>LIGHT FIXTURES & FANS</u>		
1.	Supply & installation of following light fixtures including connecting accessories, flexible pipe, wire, termination, connectors testing & commissioning.		
a)	<u>Fixture Type - A</u> LED Down Light with 12 watt. As per architect approval.	Nos.	0
b)	<u>Fixture Type - B</u> LED Down Light with 18 watt. As per architect approval	Nos.	30
c)	<u>Fixture Type - G</u> Emergency Exit Light with 10W LED Lamp and built-in battery backup for 2 Hours. As per architect approval.	Nos.	10
d)	<u>Fixture Type - H</u> Insects killer. As per architect approval.	Nos.	0
2.	Supply, installation & connection of Bracket fan, complete with all mounting accessories.	No.	2
3.	Supply, installation & connection of Ceiling fan, complete with all mounting accessories.	Nos.	6

 SINDH INTEGRATED EMERGENCY & HEALTH SERVICES		SINDH INTEGRATED EMERGENCY AND HEALTH SERVICES - TENDER DOCUMENTS		RENOVATION OF STATIONS	
4.	Supply, installation & connection of Revolving fan, complete with all mounting accessories.	Nos.	0		
5.	Supply, installation & connection of 8" diameter wall mounted exhaust fan with louver complete with all fixing accessories.	Nos.	3		
	<u>SECTION - E</u>				
	<u>SWITCHGEAR</u>				
	<u>MAIN DISTRIBUTION BOARD</u>				
	Supply, installation, testing & commissioning of following Distribution Board made with 16 SWG sheet steel housing and powder coated as per approved color including all installation accessories such as Rawal bolt etc. Complete in all respects.				
1.	Supply & install 150 A TP Box IP-65	Pcs	1		
2	Supply & install Main DB 12"x18"	Pcs	1		
3.	Supply & install Change over 50 A MDB	Pcs	1		
4.	Supply & install Under Voltage Trip (UVT).	Pcs	1		
5	Supply & install Over Voltage Trip (OVT)	Pcs	1		
6	Supply & Surge Protective Device (SPD) arrestor 100 KA class:1 make Phonix / ABB or approved equivalent.	Pcs	1		
	<u>SECTION - F</u>				
	<u>MAIN/SUB-MAIN CABLES</u>				
a)	Supply, installation and connection of following main, submain 600 / 1000V grade PVC copper cables.				
1.	<u>From Wapda Meter to Main DB</u>				
	16 mm ² 2 core SWA PVC/PVC cable in suitable size pvc conduit.	Rft.	150		
2.	<u>From Gen. Set # 1 to Generator Change Over</u>				
	16 mm ² two core PVC/PVC cable in suitable size pvc conduit.	Rft.	100		
	<u>SECTION - G</u>				
	<u>EARTHING</u>				
1.	Supply. Installation & Testing of EFE-T Chemical Grounding System with 19mm dia having Heavy-duty Copper Rod 10 Ft. long filled with Soil Conditioning Material with 6" x 25 Ft. Deep Boring with heavy duty PVC Put within Coaster Silver Cover for air breathing with Brass Nuts and Bolts ready to use. upto Test Terminal. For Neutral Earthing the result should be less than 1 Ohm, Complete in all respect.	Nos.	1		
2	Same as item No.1 above, but 2.5sq.mm single core PVC wires in 1" dia. PVC pipe from earth pit to Computer / Equipment Distribution board	Rft.	150		

h4) AC WORK

S.NO	DESCRIPTION	UNIT	QTY
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1	Installation of split unit including copper piping with installation & testing complete in all respects including wiring from outdoor unit to indoor with 2 x 1.5 mm.sq. + 1 x 1.5 mm.sq wire drawn in a separate PVC 'D' class conduit clipped to wall or ceiling (wiring make AGE or Pioneer equivalent). The return and supply copper tubing to be sized as per manufacturer's recommendation and to be drawn in separate Aeroflex insulators.		
i	a) 1.0 Ton	Nos	1
ii	b) 1.5 Ton	Nos	2
2	Providing and installing Angle Iron bracket treated with rust proof paint and enamel coating for external A/c units fixed to the wall slab with Hilti bolts.	Sets	3