

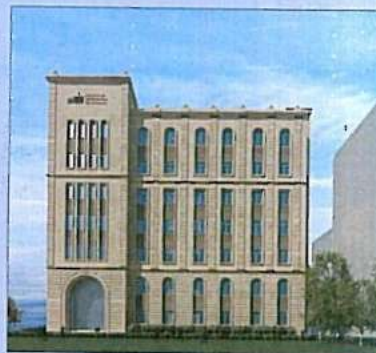
FACULTY OF  
SMI UNIVERSITY INFORMATION  
UNIVERSITY TECHNOLOGY



## Sindh Madressatul Islam University

Issued to : M/S. Canny Engineers  
Issued on : 15/8/2018

Development of SMIU Model School and University Academic Block at SMIU City Campus, Karachi (Phase-II, Academic/IT Block).



### TENDER DOCUMENT

### Volume-III

### Bill of Quantities

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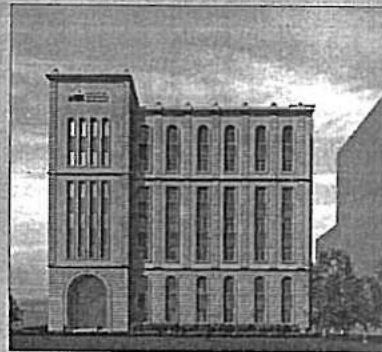
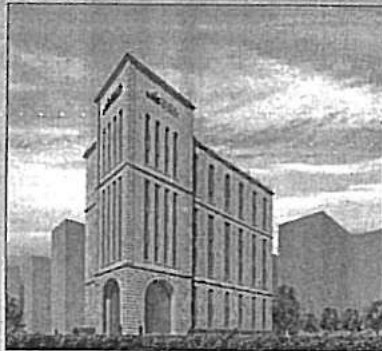
June, 2018

FACULTY OF  
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# **PREAMBLE TO PRICING AND METHOD OF MEASUREMENTS**



## PREAMBLE TO PRICING AND METHOD OF MEASUREMENTS

### Generally

The Bill of Quantities herein, including all notes and instructions, forms an integral part of the Bid/Contract Documents. However, the descriptions contained in the Bill of Quantities for each item are not necessarily complete. The Contractor is referred to the Conditions of the Contract and other Documents, Specifications and Drawings as well as relevant Standards and Codes of Practice for further information as no claim or variation will be considered on account of the Contractor's failure to do so.

The Contractor is cautioned to familiarize himself with the full content of other Contract Documents including the Instructions to Bidders, Bid Form, General Conditions, Particular Conditions, Bid / Contract Drawings and Specifications or any other information that can be easily inferred from any of them and all obligations contained in the documents shall be included in the item rates and / or contract price.

Drawings, Specifications and Bill of Quantities and all other documents are complementary and if description of any item is included in any of them, it shall be deemed included in all.

The Contractor's bid for the entire work shall provide for supervision of any or all trades that are intended to be performed with his own forces, his domestic sub-contractors and nominated sub-contractors. No extra compensation for services as a General Contractor will be paid.

The Contractor shall not use these Bills of Quantities as the basis for a construction program or for the purposes of ordering materials or arranging sub-contracts. The references for these activities shall be the drawings, specifications and instructions issued by the Engineer.

This is a Measurable type of Contract. The quantities contained within these Bills of Quantities may not accurately reflect the quantities of works as indicated in the drawings, Specification and Package Scope. The contractor is to satisfy himself for the accuracy of all quantities. No claim will be entertained for differences in quantities between the Tender Drawings, Specification and Bills of Quantities.

Items in the Preamble Section of these Bills of Quantities are deemed to qualify and to form part of description of measured work to which they refer including composite description.

All measurements are net and the rates shall include for all laps, waste, working space, etc. and trade or traditional allowances.

Amendments shall not be made to these Bills of Quantities without the authority, in writing of the Engineer.

A price or rate is to be entered against each item in the Bills of Quantities. The cost of any item left un-priced will be deemed to be included for elsewhere in the Bills of Quantities, and the rate for the un-priced item will be taken as nil. Any item of the Day Works if not entered by the Bidder shall have to be carried out at the Rate as decided by the Engineer.

For the general guidance of the bidders the relevant CSI Section numbers have been mentioned in the beginning of each Bill/Division/Section. This does not absolve the Bidder's responsibility to confirm and price according to the appropriate BSI/ASTM/CSI code applicable to any item mentioned in the Bill of Quantities and drawings etc.

## Method of Measurement

The quantities in the Bill of Quantities have been prepared generally in accordance with the Principles of Measurement (International) for works of construction dated June 1979 / Standard Method of Measurement of Building Works (SMM 7) seventh edition year 1988, published by the Royal Institution of Chartered Surveyors, 12 Great George Street, Parliament Square, London SW1P 3AD, U.K. amended to suit the local practice and conditions. The description of each item (which description shall imply references to any heading, sub-heading, preamble or other clause of item which shall apply) shall be held to include all claims, materials, workmanship, including all taxes, duties, charges, all Government levies, landing charges, transport, profit and overheads and all other incidental costs to complete the Works.

These preambles are to be read in conjunction with the item description in the Bill of Quantities.

"As described" means as directed in the Specifications and / or Drawings.

Unless otherwise described or measured separately, prices for all items shall include for all necessary straight, raking or circular cutting.

The Conditions of Contract applicable to this Contract is as specified in Volume 1 – Tender & Contract Conditions of the Tender and Contract Document.

## Pricing

The prices shall be comprehensive and must include for complying in all respects with the instructions to Bidder, Conditions of Contract, Specifications, and Drawings and for all matters and things necessary for the proper construction and completion of the whole of the Works. No claim for additional payment will be allowed for any error or misunderstanding by the Contractor of the work involved.

The rates and sums inserted in the Bills of Quantities are deemed to include for the following:

- (i) Labor and all costs in connection therewith.
- (ii) Materials, goods and all costs in connection therewith (e.g. carriage, freight, delivery, unloading, storing, returning packing handling, Letters of Credit, Bank Guarantees, Bank charges and the like, Customs duties, port dues, import duties, taxes including sales tax, charges, Insurances and other dues levied by any authority or imposed by the Government, hoisting or lowering, replacing work, goods or materials damaged, broken, lost or stolen until the issue of a Certificate of Completion.
- (iii) Fittings and fixing materials or goods in position.
- (iv) Plant.
- (v) Waste, bulking, shrinkage and overlaps.
- (vi) Land required for tips and stockpiles including all costs for obtaining any necessary licenses and approvals.
- (vii) Allowance for phasing requirements of works, effect on programming of the works of all traffic diversions and construction activity associated with diversion or installation of services.
- (viii) For taking measures for the support and full protection of pipes, cables and other apparatus required during the progress of the Works as required by Service Authority or the Engineer.
- (ix) For working alongside and liaising with other Contractors working on the same site.
- (x) Preparation and submission of shop drawings.
- (xi) Overhead charges and profit.
- (xii) Guarantees and warranties where necessary.
- (xiii) Temporary works, if any.
- (xiv)

Lump sums shall not be given where unit rates are applicable.

Where the word "allow" is used, the cost of the item shall be the responsibility of the Contractor.

The amounts set against any items of overhead shall include for all costs in connection with letters of credit, bank charges, interest charges and insurance after the materials come under the control of the Contractor.

The rates inserted will be used to determine the amount of the Contractor's Interim Payments.

The Bidder shall submit the full and detailed rate breakdown of all the BOQ items including spare parts items in the format as per enclosed Annexure-1, together with their Bid submission. The breakdown is to show the actual calculations of the General Items, Labor, Plant and Materials costs for the Works, the build-up of measured rates with on-costs and site and Head Office overheads and any other allowances used to arrive at the Bid Price. In addition the Bidder will be required to provide the Engineer within 48 hours with a full and detailed breakdown/any other information if requested. The purpose of this Breakdown/Rate Analysis is to make sure that (i) the rates used in the analysis of the items of permanent works and those quoted in the Day Works are reciprocal to each other, (ii) the bid is not front loaded, and (iii) the markup of Overheads & profit is uniform throughout the bid.

Where "fix only" items are specified, the rate shall be deemed to include for taking delivery, storing and installation of goods or materials in works where appropriate.

The rates inserted in the Schedule of Day work shall be deemed to be the rates used by the Contractor in making up rates for works items in all Parts of the Bills of Quantities.

### **Adjustment Item**

The adjustment item, if any, addition or deduction, shall apply to all Bill items, excluding provisional sum unless clearly indicated otherwise. The adjustment item shall not be a lump sum, but a percentage of the total Bid amount excluding provisional sum or a percentage of the total for the items indicated. The adjustment items shall be applied to all applicable item rates and sums entered in the Bills of Quantities (including any addenda). The adjusted rates and sums shall be applied for the valuation of Variations.

### **General Requirements**

#### **Standards**

Where no reference is made to a code, standard or Specifications in volume-II Specifications of the SUB-CONTRACT Documents, the Standard Specifications of the American Society of Testing Materials, (ASTM), British Standard Codes of Practice (BSCP) or any other relevant standard as approved by the EMPLOYER shall govern.

#### **Drawings**

The WORK shall agree in all particulars with the Drawings or any approved modifications of them or such other drawings as may be issued during the SUB-CONTRACT.  
The EMPLOYER will supply two copies of each of the drawings to the CONTRACTOR.

The CONTRACTOR will make any further copies required by him at his own expense.  
The CONTRACTOR will keep one set of all drawings duly mounted with muslin cloth and hanged on the wooden drawings stand when not in use.

## **CONTRACTOR'S (Drawings & Documents)**

The CONTRACTOR shall submit three prints/copies of all drawings, documents and schedules to be prepared by him. These will be of a standard size and format acceptable to the EMPLOYER. All such submission by the CONTRACTOR shall be accompanied by a letter of submittal.

### **Record Drawings**

The CONTRACTOR shall prepare during the progress of the SUB-CONTRACT, drawings showing the WORK "as built" including the positions of all services, plant and equipment. The drawings shall be prepared to a form & detail to the satisfaction of the EMPLOYER and prints shall be submitted to the EMPLOYER'S REPRESENTATIVE for his approval as the WORK proceeds. At the completion of the SUB-CONTRACT the CONTRACTOR shall supply to the EMPLOYER reproducible of each drawing.

### **Supply of Water and Electricity**

The CONTRACTOR shall make his own arrangements for the provision of water & electricity whether for use in the execution and construction of the WORK or otherwise. In the event of the source of water being from any existing piped supply the CONTRACTOR shall comply with any regulations laid down by the Water Authority and shall pay for such supply, stand-pipe connections, meter rents and all other charges as required all at his own expense. Similarly he will be responsible for all costs in providing electricity. Where electricity is not available for 24 hours, diesel/petrol driven electricity generators in good and reliable condition and of sufficient capacity to meet the requirements of construction equipment and lighting and other facilities at Site will be used by the CONTRACTOR.

### **Disposal of Wastes**

The CONTRACTOR shall make adequate arrangements to the satisfaction of the EMPLOYER'S REPRESENTATIVE for disposal of all sewage, rubbish and all other waste material arising from or connected with the execution of the WORK.

### **Other Services**

The CONTRACTOR shall make his own arrangements for and shall provide any service (including telephone) which may require in addition to the foregoing.

### **Bench Marks and Control Points**

All levels, lines, grades and measurements shown on the Drawings shall be measured from a Bench Mark and points to be established by the EMPLOYER within the Points Site of the WORK. The CONTRACTOR shall be responsible for ensuring the levels of all parts of the work are accurately related to this Bench Mark which shall be notified to the CONTRACTOR by the EMPLOYER immediately after commencement of the WORK.

### **Survey**

The CONTRACTOR shall furnish and maintain at his own expense survey instruments stakes and other such materials and give such assistance, including qualified staff as may be required by the EMPLOYER who will establish Bench Marks base lines, grades and other principal control points. The CONTRACTOR shall, however, call the EMPLOYER'S attention to any inaccuracies and discrepancies of such controlling points etc., before proceeding with the work. The CONTRACTOR shall at his own expense, establish working or construction lines and grades as



required, which shall be frequently checked by the EMPLOYER'S REPRESENTATIVE but the CONTRACTOR shall be solely responsible for the accuracy thereof.

### **Safeguarding Bench Marks & Control Points**

The CONTRACTOR shall safeguard all points, stakes, grade marks and bench marks made or established on the work. If disturbed he shall bear the cost of re-establishing them and also the entire Points expense of rectifying the work rendered defective due to such disturbance.

### **Progress Photograph**

The CONTRACTOR shall, throughout the construction of the WORK use digital camera for photography and provide the progress photographs in color to the EMPLOYER. He will also submit three prints each of size 5"x7" along with the recorded data at two week intervals. All such photographs will be taken under the direction of the EMPLOYER.

### **Materials and Workmanship**

As soon as possible after the SUB-CONTRACT has been awarded, the CONTRACTOR shall submit to EMPLOYER list of suppliers from whom he proposes to purchase the materials necessary for the execution of the WORK. The information regarding the names of suppliers may be submitted at different times, as may be convenient, but no approved source of supply shall be changed without the prior permission of the EMPLOYER'S REPRESENTATIVE.

Preference shall be given to the use of materials and fittings manufactured in Pakistan which comply with the SUB-CONTRACT and are competitive in price. Foreign materials shall only be used with the consent of the EMPLOYER.

All materials incorporated in the WORK shall be new and of the best quality and description of their respective kinds and shall comply with all relevant specifications. Similarly the workmanship in every case shall be of the best character, and the whole shall be subject to the approval of the EMPLOYER.

Materials whose quality and construction are not covered by the Technical Specifications shall be of equal or better quality than the relevant sample accepted by the EMPLOYER'S REPRESENTATIVE.

### **Samples**

In addition to any special provisions herein for the sampling and testing of materials, the CONTRACTOR shall submit to the EMPLOYER as he may require samples of all materials and goods which he proposes to use or employ in or for the WORK. Such samples, if approved, will be retained by the EMPLOYER'S REPRESENTATIVE, and no materials or goods of which samples have been submitted shall be used on the WORK unless and until such samples have been approved in writing by the EMPLOYER.

The EMPLOYER'S REPRESENTATIVE may reject any materials and goods which in his opinion are inferior to the samples thereof previously approved and the CONTRACTOR shall promptly remove such materials and goods from the Site.

The cost of supplying all such samples and of conveying same to such place of inspection or testing as the EMPLOYER may designate within the country of origin shall be deemed to be included in the tendered rates and prices.

Samples will be retained by the EMPLOYER and when directed by the EMPLOYER'S REPRESENTATIVE the CONTRACTOR shall dispose of the samples. Except for those which may be incorporated into the WORK after approval, such as plumbing and electric fixtures.

### **Tests Generally, Access to Premises**

The EMPLOYER may examine and may require to be tested any materials or goods required in or for the WORK such as he may decide from time to time and shall have unrestricted access to the CONTRACTOR'S, CONTRACTOR'S and supplier's premises for such purpose at all times and the CONTRACTOR shall specify this requirement when placing all orders.

The EMPLOYER will notify the CONTRACTOR whether materials and goods will be inspected at the manufacturer's or supplier's premises or at the Site. No materials or goods shall be dispatched from such premises until such notification is given and, if appropriate, inspection is complete and a release certificate is given to this effect. In both cases the CONTRACTOR is to notify the EMPLOYER when materials and good will be ready for inspection and shall do so adequately in advance for him to make the necessary arrangement for inspection.

The CONTRACTOR shall afford the EMPLOYER all facilities, assistance, labor and appliances necessary for the convenient examination, testing weighing or analysis of all such materials or goods. The CONTRACTOR shall provide and prepare such test pieces of any such materials or goods as the EMPLOYER may require.

Notwithstanding any tests which may have been carried out off the Site the EMPLOYER shall be empowered to order further tests of any materials or goods to be made on the Site and to reject such materials or goods should they fail to pass such test on the Site.

The full cost of providing all facilities, labor, consumable stores and appliances required in connection with all testing on the Site shall be deemed to be included in the tendered rates and prices.

### **Test Certificates**

Should the EMPLOYER not inspect any materials or goods at the place of manufacture, the CONTRACTOR shall, if required, obtain certificates of test from the suppliers of such materials or goods and shall send such certificates to the EMPLOYER. Such certificates shall certify that the materials or goods concerned have been tested in accordance with the requirements of the Technical Specifications and shall show the results of all the tests carried out. The CONTRACTOR shall provide adequate means of identifying the materials & goods delivered to the Site with the corresponding certificates.

### **Testing at an independent Laboratory**

Where tests are specified or directed by the EMPLOYER to be carried out in an independent testing laboratory, the CONTRACTOR shall supply and deliver the samples and shall arrange for the relevant tests to be carried out. The independent testing laboratory shall be nominated by the CONTRACTOR and acceptable to the EMPLOYER. Unless otherwise specified the CONTRACTOR shall arrange for one copy each of the independent testing laboratory's test certificates to be delivered to the EMPLOYER and to the EMPLOYER not less than 3 working days before the materials covered by the relevant test certificates are to be incorporated in the WORK. Each test certificate shall be relatable to the materials from which the sample was taken.

### Site Testing

The CONTRACTOR shall carry out such laboratory and field test (including tests to check the accuracy of testing equipment and methods but excluding tests specified to be carried out in an independent testing laboratory) as specified or as can reasonably be inferred from herein, as may be necessary to ensure and satisfy the EMPLOYER that the requirements of the Technical Specifications are met. The type and frequency of testing shall be in accordance with the relevant standards except as otherwise specified herein or directed by the EMPLOYER.

The CONTRACTOR'S attention is drawn to the fact that the frequencies of testing specified in the relevant clauses are intended to represent only a general guide. The EMPLOYER shall be empowered to vary the frequencies at which tests are conducted should he deem this necessary for the proper control of the quality of the WORK. Should the EMPLOYER'S REPRESENTATIVE vary the frequencies stated in the relevant clauses of the Technical Specifications, the CONTRACTOR shall not be entitled to extra payments thereof.

Unless otherwise agreed or directed by the EMPLOYER methods of sampling and test procedures shall be in accordance with the relevant Standard Methods of ASTM, British Standard Codes of Practice or any other relevant standard approved by the EMPLOYERS. Sample will be selected by the EMPLOYER'S REPRESENTATIVE.

### Shop Drawings, Working Drawings, Operations and Maintenance Instructions.

The Contractor is to allow in his rates for the production of all shop drawings, working drawings, operations and maintenance instructions called for in the Specifications.

These shall include but not to be limited to the following:

- (i) The surveyed location of all existing services.
- (ii) A Combined Services Drawing including all surveyed existing and proposed services showing manholes, draw pits, joint boxes, inspection chambers, lighting column bases traffic signal bars, concrete surrounds, pipe diameters, etc. to scale, plus any other possible obstructions.
- (iii) Combined Services Working drawings original and new.
- (iv) Separate sets of working drawings for each individual service showing proposed locations for submission to the service authorities.
- (v) Existing ground levels.
- (vi) Earthworks cross sections.
- (vii) Temporary traffic sign design and fixing details.
- (viii) Proposed traffic sign design and fixing details.
- (ix) Mechanical, electrical and other services drawings, diagrams and instructions as required in the contract and directed by the Engineer.
- (x) Temporary work drawing where requested by the Engineer.

The rates in the appropriate section shall include for design of the civil works as specified in the Contract and for providing working drawings, shop drawings, schedules, specifications, calculations, etc. and for obtaining the Engineer's approval.

### Abbreviations

In the Specification and Bill of Quantities the following abbreviations have the meanings hereby assigned to them:

|             |  |
|-------------|--|
| B.S.        | Means the specification issued by the British Standards Institution (B.S.I.)                 |
| C.P.        | Means the code of practice issued by the B.S.I.  |
| AASHTO      | means the specification issued by the American of State Highways & Transportation Officials. |
| ASTM        | means the specification issued by the American Society for Testing & Materials.              |
| AC          | Asbestos Cement  |
| B.S.        | British Standards  |
| Cont'd      | Continued  |
| DEPT, Dept. | Department   |
| Dia         | diameter   |
| Drg.        | Drawing  |
| E.O.        | Extra Over   |
| F.C.        | Fiber Cement   |
| GRP         | Glass Fiber Reinforced Plastics  |
| HDPE        | High Density Polyethylene  |
| HP          | Horse Power  |
| ISO         | International Standards Organization   |
| Kg.         | Kilograms  |

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|                        |                                  |
|------------------------|----------------------------------|
| Kw/hr                  | Kilowatt per hour                |
| L.R.B.                 | Local Regulatory Body            |
| L.S.                   | Lump Sum                         |
| M                      | meter                            |
| mm                     | millimeter                       |
| m <sup>3</sup> ,cu.m.  | Cubic meter                      |
| m <sup>2</sup> , sq.m. | Square meter                     |
| MDPE                   | Medium Density Polyethylene      |
| Mic                    | Micron                           |
| Min., min              | Minimum                          |
| MDD                    | Maximum Dry Density              |
| MH                     | MANHOLE                          |
| No.                    | Number                           |
| Nos.                   | Numbers                          |
| O.P.C.                 | Ordinary Portland cement         |
| PE                     | Polyethylene                     |
| P.Q.                   | Provisional Quantity             |
| PVC                    | Polyvinyl Chloride               |
| Qty.                   | Quantity                         |
| RHS                    | Rectangular Hollow Section       |
| Spec                   | Specifications                   |
| S.R.C.                 | Sulphate Resisting Cement        |
| t, tons                | tonne                            |
| uPVC                   | Unplasticised Polyvinyl Chloride |
| W                      | Width                            |
| P.C. Rate              | prime cost rate                  |
| >                      | Greater than                     |
| ≥                      | Equal to or Greater than         |
| <                      | Less than                        |
| ≤                      | Equal to or Less than            |
| =                      | Equal to                         |

Rates for various items throughout the Bills of Quantities shall include, unless otherwise stated or measured, for cutting of every description and the consequent waste, for work in girths, widths or heights of less than 300mm and for all short lengths.

Rates for all work shall include for protection, provision of samples and testing.

The pricing of materials shall take account of the following:

- (i) Pricing Preambles and Specifications shall apply reciprocally between sections of the works unless otherwise described.
- (ii) Materials shall be of the quantity specified unless otherwise directed by the Engineer.
- (iii) All materials shall be transported, handled, stored and fixed in accordance with the printed instructions or recommendations of their manufacturer's or suppliers.
- (iv) Protection of completed work, all casings and temporary coverings and making good, cleaning and polishing and clearing away upon completion.

### Rates for Plumbing and HVAC Work

Rates for all pipe work shall include for assembling and joining, pipe supports, pipe sleeves and cover plates and the like.

Rates for pipework shall include for all fittings to small pipes (i.e. pipes into an internal dia. of 60mm or less) fittings (except joint in running lengths) to large pipes (i.e. pipes with internal dia exceeding 60mm) and to gutters shall be enumerated, grouped together for each size of pipe and gutter and described as fittings.

Rates for duct work are to be included all fittings, brackets, hangers and other support.

Rates for insulation are to be included for cutting, waste, joining lap and working around and our ancillaries, fittings, flanges and other obstructions.

### Electrical Installations

The rates and prices for plant, equipment and installations are to be all inclusive of supply, installation, testing, commissioning and all associated builders work required for the full operation of such plant, equipment and installations, to comply in all respects with the Specification, Bills of Quantities, Drawings and to the complete satisfaction of the Local Regulatory Body and the Engineer.

The rates in general shall include for the following:

- (i) All cutting, short lengths and small quantities.
- (ii) All joints in the running length and all connections.
- (iii) All considerations arising from the specification.
- (iv) Fixing conduits / cable trays, etc., by approved methods.
- (v) Pipe sleeves through walls.
- (vi) Assembling component parts.
- (vii) Cleaning off all protective wrappers and leaving ready for use.
- (viii) Leaving all equipment etc., clean and in full working order.
- (ix) Draw wires in empty conduits.
- (x) Rates for cable and duct trench excavation shall include for all excavation, bedding, backfill and disposal as required by the Statutory Authority standard specification.
- (xi) Backfilling to trenches with approved excavated material. If the excavated material is not suitable imported fill shall be used.

The Contractor shall include for the supply of manufacturers recommended spares as required by the Specification for all electrical engineering installations and shall submit details of spares to be provided by him on the Schedule of Recommended Spares, including other relevant details.

The cable lengths / routes are measured from point to point on the drawing (horizontal plan distance on the drawing, any cable required for connections, loops, etc., at equipments, appliances, control gear or the like will be deemed to be included.

### Multiple Ducts and Cables

The quantity stated in the Bills of Quantities for multiple ducts and cables is the length of a single duct or cable in the particular group of ducts or cables. The contractor will allow the cost of number of ducts or cables in the rate as appropriate. eg., a qty of 50m against a 3 way 200mm dia duct means that a total quantity of  $50 \times 3 = 150\text{m}$  of 200mm duct is to be priced for, ditto for cables.

### **External Services**

The rates for all manholes and the like are to be all inclusive of all costs for the complete construction, in accordance with the specifications, drawings and local authority requirements.

### **External Works**

Where external works are analogous to other sections of the work e.g. excavation concrete etc., the clauses elsewhere shall apply equally to this section of the work.

Kerbing – Rates shall include for construction of concrete bed and lacking, supply and laying of precast concrete kerbs either straight or curved, finishing, curing and protecting building in gratings and frame.

Paved areas (footpaths and roadways) – Rates shall include bedding material, supply and laying of paving slabs including all cutting to fit around manhole covers and the like. Allow for forming patterns and designs in the paving stones all as detailed.

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# **GRAND SUMMARY**

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Bill of Quantities  
GRAND SUMMARY

| S.No              | DESCRIPTION                          | AMOUNT (Rs)                               |
|-------------------|--------------------------------------|---|
| A                 | PRELIMINARIES & GENERAL REQUIREMENTS | Included in Permanent Works               |
| B                 | PERMANENT WORKS                      |   |
| 1                 | CIVIL WORKS                          | 122,145,346/-                             |
| 2                 | PLUMBING WORKS                       | 2,993,728/-                               |
| 3                 | FIRE FIGHTING WORKS                  | 1,213,000/-                               |
| 4                 | ELECTRICAL WORKS                     | 16,573,680<br>16,901,000/-                |
| 5                 | ELV SYSTEM                           | 56,76,780/-                               |
| 6                 | HVAC WORK                            | 3,791,915/-                               |
| 7                 | EXTERNAL DEVELOPMENT WORKS           | 615,400/-                                 |
|                   |                                      | 153,009,848.48                            |
| <b>TOTAL COST</b> |                                      | <del>153,371,681/-</del><br>153,373,168/- |

(Amount in words Rs.)

~~one hundred Fifty three Million three lac Seventy  
three thousand one hundred sixty Eight only~~

*[Handwritten signature]*



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29/08/18

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# **CIVIL WORKS**

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| S.No | DESCRIPTION  | AMOUNT                                  |
|------|--|---|
| A.   | <b>SCHEDULE ITEMS</b>  |   |
| 1    | EARTH WORKS  | 1,808,936                               |
| 2    | SUB STRUCTURE  | 7,683,673                               |
| 3    | SUPER STRUCTURE  | 14,895,511                              |
| 4    | MASONRY WORKS  | 3,635,029                               |
| 5    | THERMAL & MOISTURE PROTECTION  | -                                       |
| 6    | MATEL WORKS  | 12,072                                  |
| 7    | WOOD WORKS   | -                                       |
| 8    | FLOOR FINISHES   | 180,731                                 |
| 9    | WALL FINISHES  | 2,207,713                               |
| 10   | CEILING FINISHES   | 1,095,967                               |
| 11   | EXTERNAL FINISHES  | 788,536                                 |
|      | <b>SUB-TOTAL RS.</b>   | <b>32,308,169</b>                       |
|      | Add 40% Above / Below / At par on RCC 3000 PSI and 1000 PSI on Civil Works of Sindh CSR-2012 | <b>87182521</b>                         |
|      | <b>TOTAL OF (A) WITH PREMIUM RS.</b>   | <b>410264201</b>                        |
| B.   | <b>(NON-SCHEDULE ITEMS)</b>  |   |
| 1    | EARTH WORKS <u>Steel Fabrication</u>   | <del>43840000/-</del><br>NOT APPLICABLE |
| 2    | SUB STRUCTURE  | 13,646,250/-                            |
| 3    | SUPER STRUCTURE  | 46250/-                                 |
| 4    | THERMAL & MOISTURE PROTECTION  | 30,261,250/-                            |
| 5    | MATEL WORK   | 21250/-                                 |
| 6    | DOORS AND WINDOWS  | 2539700/-                               |
| 7    | FLOOR FINISHES   | 7907200/-                               |
| 8    | WALL FINISHES  | 3240800/-                               |
| 9    | CEILING FINISHES   | 8024050/-                               |
| 10   | EXTERNAL FINISHES  | 9032000/-                               |
|      | <b>TOTAL OF (B) NON-SCHEDULE ITEMS RS.</b>   | 3554225/-                               |
|      | <b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A + B)</b>   | 2912650/-                               |
|      |  | 01118925/-                              |
|      |  | <b>122145345</b>                        |

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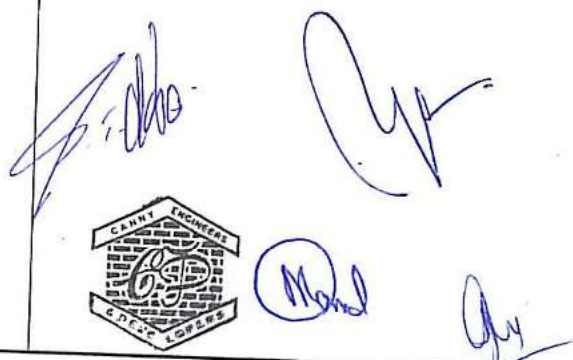



| S.No   | GOVT.OF SINDH<br>CSR 2012   | DESCRIPTION   | QTY    | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)  |
|--|---|---|--------|------|---------------|------------------|
|  | Item #/Page#/<br>Vol.sched.ref.                                   |   |        |      |               |                  |
| <b>PART-A (SCHEDULE ITEMS)</b>                                 |   |   |        |      |               |                  |
| 1  |   | <b>EARTH-WORKS</b>  |        |      |               |                  |
|  |   | <b>SITE CLEARING AND GRUBBING</b>   |        |      |               |                  |
| 1.1  | Item # 1/ P-1/ Vol.III,<br>Part-VI,<br>(Public Highway<br>Works)  | 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, drawing and entire satisfaction of the Engineer.   | 7.035  | Sft  | 0.97          | 6,823.95         |
|  |   | <b>EXCAVATIONS, BACKFILLING AND DEWATERING</b>  |        |      |               |                  |
| 1.2  | Vol. III,Part-II &<br>III,(General & PHEW)                        | Excavation in foundation & dewatering or bailing or pumping out sub soil water during excavation concreting, cast in situ concrete or masonry work in foundation of building, bridges and other structures including dagbelling dressing refilling around structure with (suitable) excavated earth watering, ramming lead upto 5'-0" ft. Complete and disposal of surplus excavated material to designated area i/c all lead & lift. etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. |        |      |               |                  |
|  |   | <b>a) In Sand, Ashes or Loose Soil</b>  |        |      |               |                  |
| 1.3  | Item # 18(a)+18(i.ii)<br>/ P-4+75/                                | ± 0'-0" ft to -5'-0"ft<br>Add for additional lift of every three ft or part there of for excavation for building, bridges, pipelines & storage tanks tranches and pits and other structures.  | 17.770 | Cft  | 8.15          | 144,825.50       |
|  |   | From -5'-0" ft to -8'-0" ft   | 10.555 | Cft  | 8.70          | 91,828.50        |
|  | Item # 18(a)+18(i.ii)<br>& 16/ P-4+74+75                          | From -8'-0" ft to -11'-0" ft  | 7.030  | Cft  | 9.25          | 65,027.50        |
|  |   | From -11'-0" ft to -14'-0" ft   | 860    | Cft  | 9.80          | 8,428.00         |
|  |   | <b>b) In Ordinary Soil</b>  |        |      |               |                  |
| 1.4  | Item # 18(b)+18(i.ii)/<br>P-4+75/                                 | ± 0'-0" ft to -5'-0"ft<br>Add for additional lift of every three ft or part there of for excavation for building, bridges, pipelines & storage tanks tranches and pits and other structures   | 17.770 | Cft  | 8.61          | 152,999.70       |
|  |   | From -5'-0" ft to -8'-0" ft   | 10.555 | Cft  | 9.16          | 96,683.80        |
|  | Item # 18(b)+18(i.ii)<br>& 16/ P-4+74+75                          | From -8'-0" ft to -11'-0" ft  | 7.030  | Cft  | 9.71          | 68,261.30        |
|  |   | From -11'-0" ft to -14'-0" ft   | 860    | Cft  | 10.26         | 8,823.60         |
|  |   | <b>SHORING WORKS</b>  |        |      |               |                  |
| 1.5  | Item # 19/ P-76/<br>Vol.III, Part-VI,<br>(PHEW)                   | Providing and fixing /driving close timbering to trenches for depth upto 10 feet etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  | 5.735  | Sft  | 166.81        | 956,655.35       |
| 1.6  | Item # 20/ P-76/<br>Vol.III, Part-VI,<br>(PHEW)                   | Providing and fixing /driving close timbering to trenches for depth exceeding 10 feet upto 20 feet etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  | 415    | Sft  | 333.62        | 138,452.30       |
|  |   | <b>IMPORTED EARTH-FILLING FROM OUTSIDE SOURCES</b>  |        |      |               |                  |
| 1.7  | Item # 22+13<br>(b+cii)/P-3 & 4/Vol-<br>III,Part-II,<br>(General) | Supplying and filling watering and ramming earth under floor with new earth excavated from outside) lead upto one chain and lift upto 5 feet, laying earth in 6" layers leveling dressing and watering for compaction by rolling to obtain 95% modified AASHTO density. Complete including all lead & lifts etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   | 3.280  | Cft  | 4.74          | 15,547.20        |
|  |   | <b>STONE SOLING</b>   |        |      |               |                  |
| 1.8  | Item # 2 / P-15<br>/Vol-III,Part-II,<br>(General)                 | Providing and laying dry rammed brick or stone ballast / soling 1-1/2" to 2" gauge from approved quarry including hand packing & filling voids with stone material, consolidating & compacting with power or hand roller,etc complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   | 1,640  | Cft  | 33.28         | 54,579.20        |
| <b>Total Amount of Schedule Items Carried to Civil Summary</b> |   |   |        |      |               | <b>1,808,936</b> |

| S.No | GOVT.OF SINDH<br>CSR 2012                                   | DESCRIPTION   | QTY    | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|------|---|---|--------|------|---------------|-----------------|
|      | Item #/Page#/<br>Vol.sched ref.                             |   |        |      |               |                 |
| 2    |   | <b>SUB-STRUCTURE</b>  |        |      |               |                 |
|      |   | <b>CONCRETE WORKS</b>   |        |      |               |                 |
| 2.1  | Item # 5(i) / P-16<br>/Vol-III,Part-II,<br>(General)        | Providing and laying cement concrete plain including placing compacting, finishing, leveling and curing complete (including screening and washing at stone aggregate without shuttering etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.<br><br>Below foundation, plinth beam,situ,walls,tanks, over stone soling or where required (Ratio 1:4:8)  | 4.635  | Cft  | 112.89        | 523,245.15      |
| 2.2  | Item # 5(h) / P-16<br>/Vol-III,Part-II,<br>(General)        | Providing and laying cement concrete plain including placing compacting, finishing, leveling and curing (including screening and washing at stone aggregate without shuttering etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.(For Cast in situ concrete or where required.Ratio 1:3:6)   | 50     | Cft  | 125.95        | 6,297.50        |
|      |   | <b>WOODEN FORMWORKS/SHUTTERING</b>  |        |      |               |                 |
| 2.3  | Item # 19b(i+ii/2) /<br>P-18 /Vol-III,Part-<br>II,(General) | Providing, fixing, erection and removal of centering for R.C.C or plain cement concrete works of partial wood (shuttering / formwork) of approved quality in horizontal / vertical surface etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.<br><br>Form work for lean 1:4:8 / situ 1:3:6 concrete  | 900    | Sft  | 33.58         | 30,222.00       |
|      |   | <b>RCC CONCRETE</b>   |        |      |               |                 |
| 2.4  | Item # 101 / P-112<br>/Vol-III,Part-II,<br>(General)        | Providing and laying Reinforced cement concrete having 3000 psi cylindrical strength (ready mixed concrete) including all kinds of formwork, hoisting, placing, compacting, finishing, vibrating, curing etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.(Excluding the cost of steel reinforcement)   |        |      |               |                 |
|      |   | <b>Sub-Structure Concrete</b>   |        |      |               |                 |
| i)   |   | Foundations & equipment pad<br>(Raft, isolated, combined & strip etc.)  | 17.710 | Cft  | 271.61        | 4,810,213.10    |
| ii)  |   | Plinth Beams / Grade beams/tie beams i/c nibs / projections   | 1.075  | Cft  | 271.61        | 291,980.75      |
| iii) |   | Rcc Retaining Wall upto plinth  | -      | Cft  | 288.15        | -               |
| iv)  |   | Rcc Ramp  | -      | Cft  | 271.61        | -               |
| v)   |   | Rcc Steps & Staircase (steps ,landing & waist)  | 95     | Cft  | 271.61        | 25,802.95       |
| vi)  |   | Trenches & Manholes (Bottom & Top Slab)   | -      | Cft  | 271.61        | -               |
| vii) |   | Trenches & Manholes (Walls)   | -      | Cft  | 271.61        | -               |
| 2.5  | Item # 102 / P-112<br>/Vol-III,Part-II,<br>(General)        | Providing and laying Reinforced cement concrete having 4000 psi cylindrical strength (ready mixed concrete) including all kinds of formwork, hoisting, placing, compacting, finishing, vibrating, curing etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.(Excluding the cost of steel reinforcement)   |        |      |               |                 |
|      |   | <b>Sub-Structure Concrete</b>   |        |      |               |                 |
| i)   |   | Columns upto plinth   | 760    | Cft  | 288.15        | 218,994.00      |
| ii)  |   | Rcc Shear / Lift / Core / Rcc wall upto plinth  | 1.975  | Cft  | 288.15        | 569,096.25      |
| iii) |   | UGWTank & Pump Room (Bottom & Top Slab)   | 1.125  | Cft  | 288.15        | 324,168.75      |
| iv)  |   | UGWTank & Pump Room (Walls)   | 2.290  | Cft  | 288.15        | 659,863.50      |
|      |   | <b>STEEL REINFORCEMENT (SUB-STRUCTURE)</b>  |        |      |               |                 |
| 2.6  | Item # 8b / P-17<br>/Vol-III,Part-II,<br>(General)          | Providing, supplying, cutting, fabrication of Tor / deformed steel reinforcement bar for cement concrete including cutting, bending, laying in position making joints and forming including cost of binding wire (also includes removal of concrete) complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer). |        |      |               |                 |

| S.No   | GOVT.OF SINDH<br>CSR 2012                                 | DESCRIPTION  | QTY    | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)  |
|--|---|--|--------|------|---------------|------------------|
|  | Item #/Page#/<br>Vol.sched ref.                           |  |        |      |               |                  |
| 2.7  | Item # 6(bii) /<br>P-16,17 /Vol-III.<br>Part-II,(General) | <b>PRECAST CONCRETE</b><br>Providing & laying reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This items also includes all kinds of form moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   |        |      |               |                  |
|  |   | b)<br>Precast reinforced cement concrete in columns, beams lintels staircase, shelves etc. (Ratio 1:1-1/2:3 or equal to 3000 psi cylindrical strength)   | 35     | Cft  | 321.77        | 11,261.95        |
| 2.7  | Item # 9 / P-71<br>/Vol-III, Part-II,<br>(General)        | c)<br>Erecting and fixing in position precast cement concrete or stone slab in roofs or lintels etc. lift upto 20 feet including all charges.  | 35     | Cft  | 41.77         | 1,461.95         |
|  |   | <b>BITUMEN COATING</b><br>Providing and applying industrial bitumen paint/coating to plastered or cement concrete surface etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  | 20,350 | Sft  | 7.78          | 158,323.00       |
| 2.8  | Item # 92 / P-109 /<br>Vol-III, Part-II,<br>(General)     | <b>TERMITE TREATMENT</b><br>Providing Anti-Termite treatment by spraying / sprinkling / spreading Neptachlar 0.5% Emulsion as an overall pre-construction treatment in slab type construction under the slab and along attached perches or entrances etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.<br>(Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal & vertical surfaces of the excavation for termite proofing) | 5,415  | Sft  | 9.74          | 52,742.10        |
| <b>Total Amount of Schedule Items Carried to Civil Summary</b> |   |  |        |      |               | <b>7,683,673</b> |

**PART-B (NON-SCHEDULE ITEMS)**

|     |       |  |     |     |       |         |
|-----|-------|--|-----|-----|-------|---------|
| 2.9 | N.S.I | <b>WATER STOPPER BAR (FOR RCC WALL &amp; TANKS WALL)</b><br>Providing and fixing PVC Centre bubble Type ribbed water stops 300mm wide x 12mm thick including cutting or jointing for retaining wall/UGW Tank wall and where required etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. | 185 | Rft | 250/- | 46250/- |
|-----|-------|--|-----|-----|-------|---------|

**Total Amount of Non-Schedule Items Carried to Civil Summary**

46250/-

**CIVIL WORKS**  
**SUB STRUCTURE**

| PART-B (NON-SCHEDULE ITEMS) |   |     |      |            |              |
|-----------------------------|---|-----|------|------------|--------------|
| S.No.                       | DESCRIPTION   | QTY | UNIT | RATE (Rs.) | AMOUNT (Rs.) |
| 2.10                        | <b>STEEL REINFORCEMENT (SUB-STRUCTURE)</b><br>Providing, supplying, transporting, straightening, cutting, bending, fabricating, placing and installing / binding in position etc., straight or curved deformed steel bar reinforcement having minimum yield strength 414 Mpa (60 ksi or 60,000 Psi), including cost of G.I binding wire 18SWG, chairs, wastages, precast c.c. spacers and welding where required to be followed ASTM A615 standard. Only those overlaps shall be paid which are according to the approved Bar Bending Schedule / shown on drawings or instructed by the Engineer, all kind of R.C.C. work etc, complete in all respects as per drawing, standard, specifications and direction of the Engineer. (Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer). | 85  | Ton  | 160,000/-  | 13,600,000/- |

13,600,000/-



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| S.No                           | GOVT.OF SINDH CSR<br>2012                    | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|--|--|-------|------|---------------|-----------------|
|                                | Item #/Page#/<br>Vol.sched ref.              |  |       |      |               |                 |
| <b>PART-A (SCHEDULE ITEMS)</b> |  |  |       |      |               |                 |
| 3                              |  | <b>SUPER-STRUCTURE</b><br><b>RCC CONCRETE</b><br>Providing and laying Reinforced cement concrete having 3000 psi cylindrical strength (ready mixed concrete) including all kinds of formwork, hoisting, placing, compacting, finishing, vibrating, curing etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.(Excluding the cost of steel reinforcement) |       |      |               |                 |
| 3.1                            | /Vol-III,Part-II,<br>(General)               |  |       |      |               |                 |
|                                | Item # 101 / P-112                           | <b>Ground Floor</b><br>Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection   | 725   | Cft  | 271.61        | 196,917.25      |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 2,940 | Cft  | 271.61        | 798,533.40      |
|                                |  | Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)   | 350   | Cft  | 271.61        | 95,063.50       |
|                                |  | <b>1<sup>st</sup> Floor</b>  |       |      |               |                 |
|                                | Item # 101 / P-112                           | Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection  | 1,445 | Cft  | 271.61        | 392,476.45      |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 3,600 | Cft  | 271.61        | 977,796.00      |
|                                |  | Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)   | 350   | Cft  | 271.61        | 95,063.50       |
|                                |  | <b>2<sup>nd</sup> Floor</b>  |       |      |               |                 |
|                                | Item # 101+12a / P-18+112                    | Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection  | 840   | Cft  | 283.71        | 238,316.40      |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 3,410 | Cft  | 283.71        | 967,451.10      |
|                                |  | Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)   | 350   | Cft  | 283.71        | 99,298.50       |
|                                |  | <b>3<sup>rd</sup> Floor</b>  |       |      |               |                 |
|                                | Item # 101+12a+12b /P-18+112                 | Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection  | 835   | Cft  | 291.27        | 243,210.45      |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 3,505 | Cft  | 291.27        | 1,020,901.35    |
|                                |  | Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)   | 350   | Cft  | 291.27        | 101,944.50      |
|                                |  | <b>4<sup>th</sup> Floor</b>  |       |      |               |                 |
|                                | Item # 101+12a+12b+12b /P-18+112             | Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection  | 835   | Cft  | 298.84        | 249,531.40      |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 3,425 | Cft  | 298.84        | 1,023,527.00    |
|                                |  | Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)   | 350   | Cft  | 298.84        | 104,594.00      |
|                                |  | <b>5<sup>th</sup> Floor</b>  |       |      |               |                 |
|                                | Item # 101+12a+12b+12b+12b /P-18+112         | Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection  | 835   | Cft  | 306.40        | 255,844.00      |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 3,425 | Cft  | 306.40        | 1,049,420.00    |
|                                |  | Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)   | 350   | Cft  | 306.40        | 107,240.00      |
|                                |  | <b>6<sup>th</sup> Floor</b>  |       |      |               |                 |
|                                | Item # 101+12a+12b+12b+12b+12b / P-18+112    | Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection  | 775   | Cft  | 313.96        | 243,319.00      |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 3,400 | Cft  | 313.96        | 1,067,464.00    |
|                                |  | Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)   | 350   | Cft  | 313.96        | 109,886.00      |
|                                |  | <b>Roof</b>  |       |      |               |                 |
|                                | Item # 101+12a+12b+12b+12b+12b+12b /P-18+112 | Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection  | 125   | Cft  | 321.52        | 40,190.00       |
|                                |  | Slab i/c Rib / Waffle slab & projections   | 480   | Cft  | 321.52        | 154,329.60      |
|                                |  | OHWTank Top & Bottom slab  | 380   | Cft  | 321.52        | 122,177.60      |
|                                |  | OHWTank Walls  | 505   | Cft  | 321.52        | 162,367.60      |



| S.No                           | GOVT.OF SINDH CSR<br>2012                              | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|--|--|-------|------|---------------|-----------------|
|                                | Item #/Page#/<br>Vol.sched ref.                        |  |       |      |               |                 |
| <b>PART-A (SCHEDULE ITEMS)</b> |  |  |       |      |               |                 |
| 3.2                            | Vol-III,<br>Part-II.(General)                          | Providing and laying Reinforced cement concrete having 4000 psi cylindrical strength (ready mixed concrete) including all kinds of formwork, hoisting, placing, compacting, finishing, vibrating, curing etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.(Excluding the cost of steel reinforcement)  |       |      |               |                 |
|                                |  | <b>Ground Floor</b>  |       |      |               |                 |
| i)                             | Item # 102 / P-112                                     | Columns  | 550   | Cft  | 288.15        | 158,482.50      |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 2,450 | Cft  | 288.15        | 705,967.50      |
|                                |  | <b>1<sup>st</sup> Floor</b>  |       |      |               |                 |
| i)                             | Item # 102 / P-112                                     | Columns  | 550   | Cft  | 288.15        | 158,482.50      |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 1,475 | Cft  | 288.15        | 425,021.25      |
|                                |  | <b>2<sup>nd</sup> Floor</b>  |       |      |               |                 |
| i)                             | Item # 102+12a<br>/P-18+112                            | Columns  | 520   | Cft  | 300.25        | 156,130.00      |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 1,480 | Cft  | 300.25        | 444,370.00      |
|                                |  | <b>3<sup>rd</sup> Floor</b>  |       |      |               |                 |
| i)                             | Item # 101+12a+12b<br>/P-18+112                        | Columns  | 520   | Cft  | 307.81        | 160,061.20      |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 1,480 | Cft  | 307.81        | 455,558.80      |
|                                |  | <b>4<sup>th</sup> Floor</b>  |       |      |               |                 |
| i)                             | Item<br># 101+12a+12b+<br>12b /P-18+112                | Columns  | 520   | Cft  | 315.37        | 163,992.40      |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 1,480 | Cft  | 315.37        | 466,747.60      |
|                                |  | <b>5<sup>th</sup> Floor</b>  |       |      |               |                 |
| i)                             | Item<br># 101+12a+12b+<br>12b+12b/P18+112              | Columns  | 520   | Cft  | 322.93        | 167,923.60      |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 1,480 | Cft  | 322.93        | 477,936.40      |
|                                |  | <b>6<sup>th</sup> Floor</b>  |       |      |               |                 |
| i)                             | Item<br># 101+12a+12b+<br>12b+12b+12b<br>/P18+112      | Columns  | 520   | Cft  | 330.50        | 171,860.00      |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 1,475 | Cft  | 330.50        | 487,487.50      |
|                                |  | <b>Roof</b>  |       |      |               |                 |
| i)                             | Item<br># 101+12a+12b+<br>12b+12b+12b+<br>12b /P18+112 | Columns  | 200   | Cft  | 338.06        | 67,612.00       |
| ii)                            |  | RCC Shear / Core / Lift / RCC Wall   | 920   | Cft  | 338.06        | 311,015.20      |
|                                |  | <b>STEEL REINFORCEMENT</b>   |       |      |               |                 |
|                                |  | Providing, supplying, cutting, fabrication of Tor / deformed steel reinforcement for cement concrete including cutting, bending, laying in position making joints and fastening including cost of binding wire (also includes removal of ) etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer). |       |      |               |                 |
| 3.3                            | Vol-III,Part-II,<br>(General)                          |  |       |      |               |                 |
|                                | Item # 8b / P-17                                       | Ground Floor   |       | Ton  |               | -               |
|                                | Item # 8b / P-17                                       | 1st Floor  |       | Ton  |               | -               |
|                                | Item # 8b+29 /<br>P-17+19                              | 2nd Floor  |       | Ton  |               | -               |
|                                | Item # 8b+29x2 / P-<br>17+19                           | 3rd Floor  |       | Ton  |               | -               |
|                                | Item # 8b+29x4<br>/ P-17+19                            | 4th Floor  |       | Ton  |               | -               |
|                                | Item # 8b+29x5<br>/ P-17+19                            | 5th Floor  |       | Ton  |               | -               |
|                                | Item # 8b+29x6<br>/ P-17+19                            | 6th Floor  |       | Ton  |               | -               |
|                                | Item # 8b+29x7<br>/ P-17+19                            | Roof   |       | Ton  |               | -               |
|                                |  |  |       | Ton  |               | -               |

**NOT APPLICABLE**  
See Corrigendum No. 1

| S.No   | GOVT.OF SINDH CSR<br>2012                 |  | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)   |
|--|---|--|---|-----|------|---------------|-------------------|
|  | Item #/Page#/<br>Vol.sched ref.           |  |   |     |      |               |                   |
| <b>PART-A (SCHEDULE ITEMS)</b>                                     |   |  |   |     |      |               |                   |
| 3.4  | Item # 2 / P-91/Vol-III,Part-II,(General) |  | <b>STEEL STRUCTURE WORKS</b><br>Providing, supplying, cutting, fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses,corrugated sheet, girders, lnds including cutting, tanks etc. including cutting, drilling riveting, handling assembling and fitting but excluding erection in position (contractor to submit the shop drawings for approval prior to execution of work) etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. | -   | Kg   | 98.57         | -                 |
| 3.5  | Item # 3 / P-91/Vol-III,Part-II,(General) |  | Erection and fitting in position of iron trusses staging of water tanks (contractor to submit the shop drawings for approval prior to execution of work) etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  | -   | Kg   | 5.42          | -                 |
| 3.6  | Item # 3 / P-91/Vol-III,Part-II,(General) |  | <b>PAINT ON STEEL STRUCTURE WORKS</b><br>Providing and applying preparing the surface and painting on MS works guard bars, gates of iron bars, grating, railings (including standards braces) and similar open works 3 coats of Enamel paint of equivalent approved quality and shade including surface preparation, primer coat, filling, cutting etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  | -   | Sft  | 5.22          | -                 |
|  |   |  | Priming coat  | -   | Sft  | 11.23         | -                 |
|  |   |  | Each subsequent coat of paint (1st coat to 3rd coat)  | -   | Sft  | 11.23         | -                 |
| <b>Total Amount of Schedule Items Carried to Civil Summary</b>     |   |  |   |     |      |               | <b>14,895,511</b> |
| <b>PART-B (NON-SCHEDULE ITEMS)</b>                                 |   |  |   |     |      |               |                   |
| 3.8  | N.S.I                                     |  | <b>WATER STOPPER BAR (FOR RCC WALL &amp; TANKS WALL)</b><br>Providing and fixing PVC Centre bubble Type ribbed water stops 300mm wide x 12mm thick including cutting or jointing for wall/OHWTank wall and where required etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   | 85  | Rft  | 250/-         | 21,250/-          |
| <b>Total Amount of Non-Schedule Items Carried to Civil Summary</b> |   |  |   |     |      |               | <b>21,250/-</b>   |

*[Handwritten Signature]*

*[Handwritten Signature]*



*[Handwritten Signature]*

*[Handwritten Signature]*

250/- 21,250/-

21,250/-

**CIVIL WORKS**  
**SUPER STRUCTURE**

| PART-B (NON-SCHEDULE ITEMS) |  |     |      |            |              |
|-----------------------------|--|-----|------|------------|--------------|
| S.No.                       | DESCRIPTION  | QTY | UNIT | RATE (Rs.) | AMOUNT (Rs.) |
| 3.9                         | <b>STEEL REINFORCEMENT</b><br>Providing, supplying, transporting, straightening, cutting, bending, fabricating, placing and installing / binding in position etc., straight or curved deformed steel bar reinforcement having minimum yield strength <b>414 Mpa (60 ksi or 60,000 Psi)</b> , including cost of G.I binding wire 18SWG, chairs, wastages, precast c.c. spacers and welding where required to be followed ASTM A615 standard. Only those overlaps shall be paid which are according to the approved Bar Bending Schedule / shown on drawings or instructed by the Engineer, all kind of R.C.C. work etc, complete in all respects as per drawing, standard, specifications and direction of the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b> |     |      |            |              |
|                             | Ground Floor   | 28  | Ton  | 169,000/-  | 4,480,000/-  |
|                             | 1st Floor  | 28  | Ton  | 160,000/-  | 4,480,000/-  |
|                             | 2nd Floor  | 25  | Ton  | 160,000/-  | 4,000,000/-  |
|                             | 3rd Floor  | 26  | Ton  | 160,000/-  | 4,160,000/-  |
|                             | 4th Floor  | 25  | Ton  | 160,000/-  | 4,000,000/-  |
|                             | 5th Floor  | 25  | Ton  | 160,000/-  | 4,000,000/-  |
|                             | 6th Floor  | 22  | Ton  | 160,000/-  | 3,520,000/-  |
|                             | Roof   | 10  | Ton  | 160,000/-  | 1,600,000/-  |

30,240,000/-

*[Handwritten signatures and stamps]*

**CANNT ENGINEERS**  
E. DEVI LOPERS

*[Signature]* *[Signature]* *[Signature]*

| S.No                                   | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)  |
|--|--|--|-------|------|---------------|------------------|
| 1                                      | 2  | 3  | 5     | 6    | 7             | 8=5x7            |
| <b>PART-A (SCHEDULE ITEMS)</b>         |  |  |       |      |               |                  |
| 4                                      |  | <b>Masonry Works</b>   |       |      |               |                  |
| 4.1                                    | Item # 28b / P-19 /<br>Vol-III,Part-<br>II,(General)         | All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.<br><b>(D.P.C) DAMP PROOF COURSE</b><br>Providing and laying DPC damp proof course with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture with leveling, curing, finishing etc complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. | 230   | Sft  | 39.13         | 8,999.90         |
| 4.2                                    | Item # 23 / P-19 /Vol-<br>III,Part-II,<br>(General)          | <b>Block Masonry</b><br>Providing and laying 1:3:6 cement concrete solid block masonry above 6" in thickness set in 1:6 cement mortar in ground floor Super Structure including raking out joints & curing etc., complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  |       |      |               |                  |
|  |  | <b>8" Thick Block Masonry</b>  |       |      |               |                  |
|  | Item # 23 / P-19   | i) Ground Floor  | 1,255 | Cft  | 146.00        | 183,230.00       |
|  | Item # 23+30 / P-19  | ii) First Floor  | 1,245 | Cft  | 148.19        | 184,496.55       |
|  | Item # 23+30 / P-19  | iii) Second Floor  | 1,470 | Cft  | 153.26        | 225,292.20       |
|  | Item # 23+30 / P-19  | iv) Third Floor  | 1,420 | Cft  | 161.20        | 228,904.00       |
|  | Item # 23+30 / P-19  | v) Fourth Floor  | 1,565 | Cft  | 174.14        | 272,529.10       |
|  | Item # 23+30 / P-19  | vi) Fifth Floor  | 1,545 | Cft  | 187.08        | 289,038.60       |
|  | Item # 23+30 / P-19  | vii) Sixth Floor   | 1,560 | Cft  | 200.02        | 312,031.20       |
|  | Item # 23+30 / P-19  | viii) Roof   | 680   | Cft  | 212.96        | 144,812.80       |
| 4.2                                    | Item # 24 / P-19 /Vol-<br>III,Part-II,<br>(General)          | Providing and laying 1:3:6 cement concrete solid block masonry wall 6" and below in thickness set in 1:6 cement mortar in ground floor Super Structure including raking out joints & curing etc., complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   |       |      |               |                  |
| a)                                     |  | <b>6" Thick Block Masonry</b>  |       |      |               |                  |
|  | Item # 24 / P-19   | i) Ground Floor  | 840   | Cft  | 157.71        | 132,476.40       |
|  | Item # 24+30 / P-19  | ii) First Floor  | 800   | Cft  | 159.35        | 127,480.00       |
|  | Item # 24+30 / P-19  | iii) Second Floor  | 1,390 | Cft  | 163.16        | 226,792.40       |
|  | Item # 24+30 / P-19  | iv) Third Floor  | 1,750 | Cft  | 169.11        | 295,942.50       |
|  | Item # 24+30 / P-19  | v) Fourth Floor  | 1,500 | Cft  | 178.81        | 268,215.00       |
|  | Item # 24+30 / P-19  | vi) Fifth Floor  | 1,500 | Cft  | 188.51        | 282,765.00       |
|  | Item # 24+30 / P-19  | vii) Sixth Floor   | 1,500 | Cft  | 198.21        | 297,315.00       |
|  | Item # 24+30 / P-19  | viii) Roof   | 275   | Cft  | 207.91        | 57,175.25        |
| b)                                     |  | <b>4" Thick Block Masonry</b>  |       |      |               |                  |
|  | Item # 24 / P-19   | i) Ground Floor  | 45    | Cft  | 157.71        | 7,096.95         |
|  | Item # 24+30 / P-19  | ii) First Floor  | -     | Cft  | 158.81        | -                |
|  | Item # 24+30 / P-19  | iii) Second Floor  | 105   | Cft  | 161.34        | 16,940.70        |
|  | Item # 24+30 / P-19  | iv) Third Floor  | 105   | Cft  | 165.30        | 17,356.50        |
|  | Item # 24+30 / P-19  | v) Fourth Floor  | 105   | Cft  | 171.76        | 18,034.80        |
|  | Item # 24+30 / P-19  | vi) Fifth Floor  | 105   | Cft  | 178.22        | 18,713.10        |
|  | Item # 24+30 / P-19  | vii) Sixth Floor   | 105   | Cft  | 184.68        | 19,391.40        |
| <b>Total Amount Carried to Summary</b> |  |  |       |      |               | <b>3,635,029</b> |

| S.No                                   | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|--|---|-----|------|---------------|-----------------|
| 1                                      | 2  | 3   | 5   | 6    | 7             | 8=5x7           |
| 5                                      |  | <p><b>THERMAL &amp; MOISTURE PROTECTION</b></p> <p>All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.</p> <p style="text-align: center; font-size: 2em;"><b>NOT APPLICABLE</b></p> |     |      |               |                 |
| <b>Total Amount Carried to Summary</b> |  |   |     |      |               |                 |

| S.No                            | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------------|--|--|-------|------|---------------|-----------------|
| 1                               | 2  | 3  | 5     | 6    | 7             | 8=5x7           |
| 6                               |  | <b>METAL WORKS</b>   |       |      |               |                 |
|                                 |  | All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.  |       |      |               |                 |
| 6.1                             | Item # 5d/ P-70 /<br>Vol.III,Part II,<br>(Chapter -7)        | <b>Door Frame Paint</b><br>Preparing surface and painting 3 coats on guard bars, gates of iron bars, gratings, railings (including standards braces, etc). And similar open work, excluding the cost of priming coats. Complete in all respects as per drawings, specification and direction of the Engineer. For (Door Frame) | 1,075 | Sft  | 11.23         | 12,072.25       |
| Total Amount Carried to Summary |  |  |       |      |               | 12,072          |

| S.No                            | GOVT.OF SINDH CSR<br>2012       | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------------|---------------------------------|--|-----|------|---------------|-----------------|
|                                 | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                               | 2                               | 3  | 5   | 6    | 7             | 8=5x7           |
| 7                               |                                 | <p><u>WOOD WORKS</u></p> <p>All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.</p> <p style="text-align: center; font-size: 2em; font-weight: bold;">NOT APPLICABLE</p> |     |      |               |                 |
| Total Amount Carried to Summary |                                 |  |     |      |               |                 |

| S.No                            | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------------|--|--|-------|------|---------------|-----------------|
| 1                               | 2  | 3  | 5     | 6    | 7             | 8=5x7           |
| 8                               |  | <b>FLOOR FINISHES</b><br><del>All Items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.</del>  |       |      |               |                 |
| 8.1                             | Item # 16C+75 / P-42.50/Vol. III,Part-II, (General)          | <b>P.C.C FLOOR</b><br>Providing and laying 2" (50 mm) thick topping cement concrete 1:2:4 floor including surface finishing, leveling curing and dividing into panels with P/fixing glass strip 4mm for flooring up to 1" depth of specified pattern & design with steel trowel finished maintaining proper level etc complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. |       |      |               |                 |
|                                 |  | i) Ground Floor  | 165   | Sft  | 43.92         | 7,246.80        |
|                                 |  | ii) First Floor  | 3,450 | Sft  | 43.92         | 151,524.00      |
|                                 |  | iii) Second Floor  | -     | Sft  |               |                 |
|                                 |  | iv) Third Floor  | 500   | Sft  | 43.92         | 21,960.00       |
|                                 |  | v) Fourth Floor  | -     | Sft  |               |                 |
|                                 |  | vi) Fifth Floor  | -     | Sft  |               |                 |
|                                 |  | vii) Sixth Floor   | -     | Sft  |               |                 |
|                                 |  | viii) Roof   | -     | Sft  |               |                 |
| Total Amount Carried to Summary |  |  |       |      |               | 180,731         |



| S.No                            | GOVT.OF SINDH CSR<br>2012                              | DESCRIPTION   | QTY    | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------------|--|---|--------|------|---------------|-----------------|
| 1                               | 2  | 3   | 5      | 6    | 7             | 8=5x7           |
| 9                               |  | <b>WALL FINISHES</b>  |        |      |               |                 |
|                                 |  | All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.   |        |      |               |                 |
| 9.1                             |  | <b>PLASTER (INTERNAL WALL SURFACE)</b><br>Providing and applying (1/2") thick cement plaster to internal walls, columns, beams, etc. with cement mortar 1:4 including all corners, recesses, jambs, raking out joints of masonry, scaffolding etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (up to any height). |        |      |               |                 |
|                                 | Item # 11b / P-52 /<br>Vol. III, Part-<br>II.(General) |   |        |      |               |                 |
|                                 | Item # 11b / P-52                                      | i) Ground Floor   | 8,330  | Sft  | 22.84         | 190,257.20      |
|                                 | Item # 11b+29 / P-52<br>& 54                           | ii) First Floor   | 9,250  | Sft  | 24.25         | 224,312.50      |
|                                 | Item # 11b+29 / P-52<br>& 54                           | iii) Second Floor   | 12,400 | Sft  | 25.66         | 318,184.00      |
|                                 | Item # 11b+29 / P-52<br>& 54                           | iv) Third Floor   | 13,165 | Sft  | 27.07         | 356,376.55      |
|                                 | Item # 11b+29 / P-52<br>& 54                           | v) Fourth Floor   | 11,785 | Sft  | 28.48         | 335,636.80      |
|                                 | Item # 11b+29 / P-52<br>& 54                           | vi) Fifth Floor   | 11,785 | Sft  | 29.89         | 352,253.65      |
|                                 | Item # 11b+29 / P-52<br>& 54                           | vii) Sixth Floor  | 11,785 | Sft  | 31.30         | 368,870.50      |
|                                 | Item # 11b+29 / P-52<br>& 54                           | viii) Roof  | 1,890  | Sft  | 32.71         | 61,821.90       |
| Total Amount Carried to Summary |  |   |        |      |               | 2,207,713       |

| S.No                                   | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)  |
|--|--|--|-------|------|---------------|------------------|
| 1                                      | 2  | 3  | 5     | 6    | 7             | 8=5x7            |
| 10                                     |  | <b>CEILING FINISHES</b>  |       |      |               |                  |
|  |  | All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.  |       |      |               |                  |
| 10.1                                   |  | <b>PLASTER (INTERNAL CEILING SURFACE)</b><br>Providing and applying (1/2") thick cement plaster to internal ceiling, soffits of beams and projections etc. with cement mortar 1:6 including all corners, recesses, jambs, raking out joints of masonry, scaffolding etc., complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (up to any height).   |       |      |               |                  |
|  | Item # 13b / P-52 / Vol.III,Part-II,(General)                |  |       |      |               |                  |
|  | Item # 13b / P-52  | i) Ground Floor  | 1,125 | Sft  | 22.07         | 24,828.75        |
|  | Item # 13b+29 / P-52 & 54                                    | ii) First Floor  | 3,990 | Sft  | 23.48         | 93,685.20        |
|  | Item # 13b+29 / P-52 & 54                                    | iii) Second Floor  | 4,185 | Sft  | 24.89         | 104,164.65       |
|  | Item # 13b+29 / P-52 & 54                                    | iv) Third Floor  | 3,785 | Sft  | 26.30         | 99,545.50        |
|  | Item # 13b+29 / P-52 & 54                                    | v) Fourth Floor  | 4,200 | Sft  | 27.70         | 116,340.00       |
|  | Item # 13b+29 / P-52 & 54                                    | vi) Fifth Floor  | 4,200 | Sft  | 29.11         | 122,262.00       |
|  | Item # 13b+29 / P-52 & 54                                    | vii) Sixth Floor   | 4,200 | Sft  | 30.52         | 128,184.00       |
|  | Item # 13b+29 / P-52 & 54                                    | viii) Roof   | 340   | Sft  | 31.93         | 10,856.20        |
| 10.2                                   |  | <b>PAINT (INTERNAL CEILING SURFACE)</b><br>Providing and applying painting on all ceiling surface with Distemper Paint of approved shade three coats over and including a coat of primer over plastered surface at any height in any floor including preparation of surface, filling depression with putty, rubbing, sand papering and cleaning etc complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. |       |      |               |                  |
|  | Item # 23+24c / P-54 / Vol.III,Part II, (General)            |  |       |      |               |                  |
|  | Item # 23+24c / P-54   | i) Ground Floor  | 1,125 | Sft  | 15.22         | 17,122.50        |
|  | Item # 23+24c / P-54   | ii) First Floor  | 3,990 | Sft  | 15.22         | 60,727.80        |
|  | Item # 23+24c / P-54   | iii) Second Floor  | 4,185 | Sft  | 15.22         | 63,695.70        |
|  | Item # 23+24c / P-54   | iv) Third Floor  | 3,785 | Sft  | 15.22         | 57,607.70        |
|  | Item # 23+24c / P-54   | v) Fourth Floor  | 4,200 | Sft  | 15.22         | 63,924.00        |
|  | Item # 23+24c / P-54   | vi) Fifth Floor  | 4,200 | Sft  | 15.22         | 63,924.00        |
|  | Item # 23+24c / P-54   | vii) Sixth Floor   | 4,200 | Sft  | 15.22         | 63,924.00        |
|  | Item # 23+24c / P-54   | viii) Roof   | 340   | Sft  | 15.22         | 5,174.80         |
| <b>Total Amount Carried to Summary</b> |  |  |       |      |               | <b>1,095,967</b> |

| S.No                            | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY    | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------------|--|--|--------|------|---------------|-----------------|
| 1                               | 2  | 3  | 5      | 6    | 7             | 8=5x7           |
| 11                              |  | <b>EXTERNAL FINISHES</b><br>All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.  |        | -    |               |                 |
| 11.1                            | Item # 11c / P-52 /<br>Vol. III,Part-<br>II,(General)        | <b>PLASTER (EXTERNAL SURFACE)</b><br>Providing and applying (3/4") thick cement plaster to external walls, columns, beams, etc. with cement mortar 1:4 including all corners, recesses, jambs, raking out joints of masonry, scaffolding etc, complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (up to any height). | 17,500 | Sft  | 30.16         | 527,800.00      |
| 11.2                            | Item # 34/ P-55 / Vol.<br>III,Part-II,(General)              | Extra labor rate for making grooves of 1" x 1/4" or 3/4" x 1/2" plastered surface with true edges both vertically and horizontally with uniform depth, with groove base smoothly finished etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. ( At any height any Floor )  | 10,560 | Rft  | 7.71          | 81,417.60       |
| 11.3                            | Item # 13b / P-52 /<br>Vol. III,Part-<br>II,(General)        | Providing and applying (1/2") thick cement plaster to internal ceiling, soffits of beams and projections etc. with cement mortar 1:6 including all corners, recesses, jambs, raking out joints of masonry, scaffolding etc, complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (up to any height).                   | 8,125  | Sft  | 22.07         | 179,318.75      |
| Total Amount Carried to Summary |  |  |        |      |               | 788,536         |

| S.No                               | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|------------------------------------|--|---|-------|------|---------------|-----------------|
| 1                                  | 2  | 3   | 5     | 6    | 7             | 8=5x7           |
| <b>PART-B (NON SCHEDULE ITEMS)</b> |  |   |       |      |               |                 |
| 4                                  |  | <b>THERMAL &amp; MOISTURE PROTECTION</b>  |       |      |               |                 |
| 4.1                                |  | <p>All Items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.</p> <p>Providing &amp; laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.</p> <p>i) Providing and laying 1" thick average levelling CC screed over Rcc slab for achieving leveled surface with (1:4) cement sand mortar, complete in all respect and as per drawing &amp; specification and to the entire satisfaction of the Engineer.</p> <p>ii) Providing and laying in position Water proofing membrane HI Grip Elastomer SUNTAN PP4000 4mm thick from Pak Hy-Oils limited or approved equivalent over above leveled surface including primer coating, overlapping (horizontal &amp; vertical) complete as per manufacturer's specifications, instruction &amp; as shown in the drawing etc. complete in all respects as per drawings, specification and as directed by the Engineer.</p> <p>iii) Providing and laying 2" thick minimum with 3000 psi strength concrete screed including BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent in required slope curing, making ridges, valleys, chamfered edges etc. complete in all respects as per drawings, specifications and as directed by the Engineer.</p> <p>iv) Providing &amp; laying 34mm thick Heat &amp; Cold Insulation tile by National Tile or approved equivalent, approved pattern &amp; color as per the finishing schedule as shown in drawing including setting the tiles with cement sand mortar 1:4/Dry Bond, chipping, cutting, jointing and grouting material of approved quality (overall thickness as shown in the drawings) etc. complete in all respects as per specifications, drawings and instructions of the Engineer.</p> | 4.660 | Sft  | 40/-          | 186,400/-       |
|                                    |  |   | 4.660 | Sft  | 110/-         | 512,600/-       |
|                                    |  |   | 4.660 | Sft  | 95/-          | 442,700/-       |
|                                    |  |   | 4.660 | Sft  | 300/-         | 1,398,000/-     |
| Total Amount Carried to Summary    |  |   |       |      |               | 2,539,700/-     |

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| S.No | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|------|--|--|-------|------|---------------|-----------------|
| 1    | 2  | 3  | 5     | 6    | 7             | 8=5x7           |
| 5    |  | <b>METAL WORK</b>  |       |      |               |                 |
| 5.1  |  | All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.<br>Providing, fabricating, welding & fixing in position Stainless Steel 304 grade Staircase railing comprising of 2" dia hand rail, 1-1/2" dia baluster in alternate steps with 1/2" dia solid bar, 1/2" dia mid rail (4-Nos) including all required accessories (base plate, Bolts, cap etc), complete in all respects as per drawing, standard, specifications and direction of the Engineer.  |       |      |               |                 |
|      |  | i) Basement  | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | ii) Ground Floor   | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | iii) First Floor   | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | iv) Second Floor   | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | v) Third Floor   | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | vi) Fourth Floor   | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | vii) Fifth Floor   | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | viii) Sixth Floor  | 30    | Rft  | 2500/-        | 75,000/-        |
|      |  | ix) Roof   | 30    | Rft  | 2500/-        | 75,000/-        |
| 5.2  |  | Providing, fabricating, welding & fixing in position Stainless Steel wall mounted Stair case hand rail with SS grade 304, comprising 2" dia SS pipe as hand rail, 1/2" dia SS pipe fixed on wall as shown on drawing including all fixing arrangement with SS hardware etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer.  |       |      |               |                 |
|      |  | i) Ground Floor  | 60    | Rft  | 1250/-        | 75,000/-        |
|      |  | ii) First Floor  | 60    | Rft  | 1250/-        | 75,000/-        |
|      |  | iii) Second Floor  | 60    | Rft  | 1250/-        | 75,000/-        |
|      |  | iv) Third Floor  | 60    | Rft  | 1250/-        | 75,000/-        |
|      |  | v) Fourth Floor  | 60    | Rft  | 1250/-        | 75,000/-        |
|      |  | vi) Fifth Floor  | 60    | Rft  | 1250/-        | 75,000/-        |
|      |  | vii) Sixth Floor   | 60    | Rft  | 1250/-        | 75,000/-        |
|      |  | viii) Roof   |       | Rft  |               |                 |
| 5.3  |  | <b>MS DOOR FRAME</b><br>Providing and fixing M.S. molded sheet door frames of 5" x 2" manufactured from mild steel sheet of 16 gauge conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:4 etc, in any floor at any height, etc, complete in all respects as per drawing, standard, specifications and direction of the Engineer. (at any height any floor) | 1.365 | Rft  | 200/-         | 273,000/-       |
| 5.4  |  | <b>Monkey Ladder</b><br>Providing fabricating and fixing of MS Monkey Ladder /Access Ladder for O.H water tank or where required comprising of 1-1/2" dia MS pipe with structural steel including all required fixing arrangements for complete the job as shown in drawing (at any height in any floor) etc, complete in all respects as per drawing, standard, specifications & direction of the Engineer.   |       | Kg   |               |                 |



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| S.No                                   | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   |   |  |   |  |
|--|--|---|---|--|---|--|
| 1                                      | 2  | 3   |   |  |   |  |
| 5.5                                    |  | <p><b>Aluminum Windows &amp; Ventilator</b></p> <p>Providing, fabricating and fixing imported natural / color anodized premium quality aluminum beading section for fixed / openable and sliding windows (using Pakistan Cable, Alcorp, Krudson or equivalent approved manufacturers) including 6mm thick clear glass to be approved imported make by (Ghani or other equivalent approved) fixed to concrete or masonry surfaces, using natural color anodized long screws with nylon plugs, for window and ventilators hinges, stainless steel rollers, locking arrangements, handles stays, PVC glazing bead and weather strips, Caulking with caulking compound etc. complete in all respect, as per drawings and specifications and all works to be carried out the satisfaction of Engineer.(at any height/floor)</p> <p>Note: Minimum wall thickness for all sections shall be 2mm and width will be 100mm wide to be made according to the design.</p> <p style="text-align: center;">GW-01<br/>W-01<br/>W-02<br/>W-03<br/>W-04<br/>W-05<br/>V-01<br/>V-02<br/>V-03<br/>V-04</p> | <p>315 Sft<br/>1,540 Sft<br/>675 Sft<br/>385 Sft<br/>496 Sft<br/>300 Sft<br/>45 Sft<br/>100 Sft<br/>50 Sft<br/>50 Sft</p> | <p>1,200/-<br/>1,200/-<br/>1,200/-<br/>1,200/-<br/>1,200/-<br/>1,200/-<br/>1,200/-<br/>1,200/-<br/>1,200/-<br/>1,200/-</p> | <p>378,000/-<br/>1,848,000/-<br/>810,000/-<br/>462,000/-<br/>595,200/-<br/>360,000/-<br/>54,000/-<br/>120,000/-<br/>60,000/-<br/>60,000/-</p> |  |
| 5.6                                    |  | <p>Providing fabricating and fixing of 25mm dia SS pipe rungs( 304 grade) in UG &amp; O.H water tank complete with all fixing arrangements (rawal bolt,etc) as shown in drawing painting with rust proof paint (at any height in any floor) etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.</p>   | <p>60 Rft</p>   | <p>500/-</p>   | <p>30,000/-</p>   |  |
| 5.7                                    |  | <p>Providing, fabricating and fixing Aluminum fixed glass partition comprising of colored anodized premium quality aluminum sections in top, bottom, horizontal &amp; bottom (using Pakistan Cable, Alcorp, Krudson or equivalent approved manufacturers) with 6mm clear glass by (Ghani glass or other equivalent approved) including all fixing arrangement &amp; required Hardware etc. PVC glazing bead and weather strips, Caulking with caulking compound etc. complete in all respect, as per drawings and specifications and all works to be carried out the satisfaction of Engineer.</p> <p>Note: Minimum wall thickness for all sections shall be 2mm and width will be 100mm wide to be made according to the design.</p>   | <p>1,520 Sft</p>  | <p>800/-</p>   | <p>1,216,000/-</p>  |  |
| 5.8                                    |  | <p>Providing, fabricating and fixing Aluminum Frame door comprising of 8mm thick water proof Laminated board/Ply (lamination should be on both side of board), premium quality aluminum sections (Frame) of Pakistan Cable / Knudsen or equivalent approved manufacturers fixed on Rcc &amp; masonry surface, fitted in Neoprene Gaskets including all required hardware (all hardware should be in stain less steel), hinges, handles, locks, stays etc. Including silicon sealant to all external junction between structure and door to give water / wind proof seal. complete in all respect as per drawing, standard, specifications and direction of the Engineer. (Contractor to submit the shop drawing for approval before start of work)</p>  | <p>490 Sft</p>  | <p>900/-</p>   | <p>441,000/-</p>  |  |
| <p>Total Amount Carried to Summary</p> |  |   |   |  | <p>7,907,200</p> <p><b>6434000/-</b></p>  |  |

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| S.No | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|------|--|--|-------|------|---------------|-----------------|
| 1    | 2  | 3  | 5     | 6    | 7             | 8=5x7           |
| 6    |  | <b>DOORS, WINDOW &amp; VENTILATORS</b>   |       |      |               |                 |
|      |  | All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.  |       |      |               |                 |
| 6.1  |  | <b>Door Shutter</b><br>Providing & making 38mm thick solid core Formica finished flush door shutters, including 6mm thick MDF with mechanically pressed Formica of approved quality, colour & shade, Formica facing on either side, over all around best quality rough wood 50mm wide horizontal, vertical & cross band frame & 150mm wide lock rail, hollow area except framing to be filled with the approved rough wood, 38mm x 38mm thick Oak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, including (termite treatment using termite liquid) etc., complete in all respect, as per specifications & relevant drawings, and to the entire satisfaction of the Engineer. |       |      |               |                 |
|      | a)   | Single Leaf  | 1.030 | Sft  | 900/-         | 927,000/-       |
|      | b)   | Double Leaf  | 1.030 | Sft  | 900/-         | 927,000/-       |
| 6.2  |  | Providing, Making & fixing in position 38mm thick solid core flush door shutters with Oak wood frame with 5mm thick Oak ply, over all around best quality rough wood 50mm wide horizontal, vertical & cross band frame & 150mm wide lock rail, hollow area except framing to be filled with the approved rough wood, 38mm x 38mm thick Oak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer Providing and applying lacquer polish, fixing screw, (termite treatment using termite liquid) etc. complete in all respect, as per specifications & relevant drawings, and to the entire satisfaction of the Engineer. (at any height any floor)                                     | 400   | Sft  | 950/-         | 380,000/-       |
| 6.3  |  | <b>IRON MONGRY</b>   |       |      |               |                 |
|      | i)   | Ball Bearing Hinges 125mmx3mm, Stainless Steel (BON-91)  | 396   | Nos. | 200/-         | 79200/-         |
|      | ii)  | Tower bolts (DTB-12)   | 75    | Nos. | 250/-         | 18750/-         |
|      | iii)   | Locks (heavy duty) Lever Handle on Rose + Euro Profile Escutcheon, SS Finish(BON-704)+Mortise Cylinder Lock case, 45mm BS, SS Finish (BON-761)   | 75    | Nos. | 2000/-        | 150,000/-       |
|      | iv)  | Knob Profile Cylinder, one side key, one side knob, L-60mm, SN Finish  | 75    | Nos. | 1000/-        | 75,000/-        |
|      | v)   | Overhead Hydraulic Door Closer, Max.50 Kg. Door Weight, Silver Finish  | 32    | Nos. | 3500/-        | 112,000/-       |
|      | vi)  | Magnetic Wall & Floor Door Stop, SS Finish (BOZ-23)  | 38    | Nos. | 250/-         | 9500/-          |
|      | vii)   | SS push plates 100 x 300mm   | 21    | Nos. | 500/-         | 10500/-         |
|      | viii)  | SS kick plates 1500 x 150mm  | 21    | Nos. | 1000/-        | 21000/-         |
| 6.4  |  | <b>CABINET (WALL MOUNTED)</b><br>Providing making and fixing in position wall mounted upper cabinets made of 3/4" thick laminated MDF including all around Oak wood lipping, rough wood frame, complete with all accessories i.e. imported magnetic hinges, locks, catchers, best quality handles etc. including termite treatment using termite liquid and Lacquer polish Finish complete in all respects as per drawing, specifications, and or as directed by the Engineer. (Front face will be measured for payments)  |       |      |               |                 |
|      | i)   | Ground Floor   | 20    | Sft  | 950/-         | 19,000/-        |

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|---------------------------------|--|---|-----|------|---------------|------------------|
| 1                               | 2  | 3   | 5   | 6    | 7             | 8=5x7            |
| 6.5                             |  | <b>CABINET (FLOOR MOUNTED)</b><br>Providing making and fixing in position floor mounted lower cabinets made of 3/4" thick laminated MDF including all around Oak wood lipping, rough wood frame, complete with all accessories i.e. imported magnetic hinges, locks, catchers, best quality handles etc. including termite treatment using termite liquid and Lacquer polish finish complete in all respects (at any height / floor) as per drawing, specifications, and or as directed by the Engineer. (Front face will be measured for payments) |     |      |               |                  |
|                                 |  | i) Ground Floor   | 25  | Sft  | 950/-         | 23750/-          |
| 6.6                             |  | Providing and fixing wooden texture Fire Rated Door comprises of 1.2mm GI sheet 44mm thick shutter powder coated finish with GI Door frame 1.5mm thick, 150mm wide (Fire rating upto 90 minutes as per NFPA) including vision panel and all required hardware's i.e., hinges, panic bar, lock, door closer etc., complete in all respect as per specifications & relevant drawings, and to the entire satisfaction of the Engineer.   |     |      |               |                  |
|                                 |  | a) Single Leaf  | 195 | Sft  | 1100/-        | 214,500/-        |
|                                 |  | b) Double Leaf  | 240 | Sft  | 1140/-        | 273600/-         |
| Total Amount Carried to Summary |  |   |     |      |               | 3240800/-<br>Sft |

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|------|--|--|--|---|---|---|
| 1    | 2  | 3  | 5  | 6   | 7   | 8=5x7   |
| 7    |  | <b>FLOOR FINISHES</b>  |  |   |   |   |
| 7.1  |  | <p>All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BS/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.</p> <p>Providing &amp; laying 1: 4 cement sand mortar levelling screed under tiles or where required complete in all respects as per specifications, drawings and instructions of the Engineer.</p> <p>i) Basement<br/>ii) Ground Floor<br/>iii) First Floor<br/>iv) Second Floor<br/>v) Third Floor<br/>vi) Fourth Floor<br/>vii) Fifth Floor<br/>viii) Sixth Floor<br/>ix) Roof</p>  | 35<br>675<br>75<br>680<br>690<br>730<br>730<br>730<br>40         | Cft<br>Cft<br>Cft<br>Cft<br>Cft<br>Cft<br>Cft<br>Cft<br>Cft | 150/-<br>150/-<br>150/-<br>150/-<br>155/-<br>155/-<br>160/-<br>160/-<br>170/- | 5250/-<br>101250/-<br>11250/-<br>102000/-<br>106950/-<br>113150/-<br>116800/-<br>116800/-<br>6800/- |
| 7.2  |  | <p>Providing &amp; laying full body Porcelain Tile (Matt finish) on floor comprising of 12" x 24" x 3/8" &amp; 24" x 24" x 1/2" thick Porcelain tiles of approved make &amp; color as per floor pattern with or without spacers shown in drawing including setting the tiles with dry bond surly, grouting with matching color approved grouting material in jointing, curing, cutting etc., complete in all respects as per specifications, drawings and instructions of the Engineer.<br/>(Note: Cost of base mortar/levelling screed will be paid separate item )<br/>Base rate only for Porcelain Tile: 1350/Sq.m</p> <p>i) Ground Floor<br/>ii) First Floor<br/>iii) Second Floor<br/>iv) Third Floor<br/>v) Fourth Floor<br/>vi) Fifth Floor<br/>vii) Sixth Floor<br/>viii) Roof</p> | 345<br>-<br>285<br>285<br>290<br>290<br>290<br>-                 | Sft<br>Sft<br>Sft<br>Sft<br>Sft<br>Sft<br>Sft<br>Sft        | 300/-<br>310/-<br>320/-<br>330/-<br>340/-<br>350/-<br>-                       | 103500/-<br>88350/-<br>91200/-<br>95700/-<br>98600/-<br>101500/-<br>-                               |
| 7.3  |  | <p>Providing and laying Pre-Polished Marble Tile on floor 18" x 18" x 3/4" of approved make &amp; colors with borders, patterns as per design with or without spacers including setting the tiles with dry bond surly, grouting with matching color approved grouting material in jointing, curing, cutting etc., complete in all respects as per specifications, drawings and instructions of the Engineer.<br/>(Note: Cost of base mortar/levelling screed will be paid separate item )<br/>Base Rate only for Marble Tile: 80/Sft</p> <p>i) Ground Floor<br/>ii) First Floor<br/>iii) Second Floor<br/>iv) Third Floor<br/>v) Fourth Floor<br/>vi) Fifth Floor<br/>vii) Sixth Floor<br/>viii) Roof</p>  | 4,245<br>485<br>4,350<br>3,640<br>4,670<br>4,670<br>4,670<br>270 | Sft<br>Sft<br>Sft<br>Sft<br>Sft<br>Sft<br>Sft<br>Sft        | 165/-<br>170/-<br>175/-<br>180/-<br>185/-<br>190/-<br>195/-<br>200/-          | 700425/-<br>82450/-<br>761250/-<br>655200/-<br>863950/-<br>887300/-<br>910650/-<br>54000/-          |

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|--|--|---|-------|------|-------------------------|-----------------|
| 1  | 2  | 3   | 5     | 6    | 7                       | 8=5x7           |
| 7.4  |  | <p><b>Marble Counter Top</b><br/>Providing, laying and fixing Per-Polished Marble Counter Top 24" wide and 3/4" thick as per drawing. activities include provide &amp; fixe 1-1/2" thick RCC slab, setting with Dry Bond, fixing in wall with cutting/chiseling in RCC / CC members etc, grouting with matching colour approved grouting material in joints, chamfering edging/half D gola around the counter top, finishing, maintaining proper level with curing etc. where required complete in all respects as per specifications and as directed by the Engineer.<br/><b>Base Rate of only Marble counter top: 150/ Sft</b></p> <p>i) Ground Floor</p> | 20    | Sft  | 240/-                   | 4800/-          |
| 7.5  |  | <p>Providing, laying and fixing Synthetic Carpet tiles over c.c floor of approved size, color, make &amp; pattern as per the finishing schedule including bonding material (excluding the cost c.c floor) complete in all respect as per drawings, specifications and as directed by the Engineer.</p>  | 3,585 | Sft  | 475/-                   | 1702875/-       |
| 7.6  |  | <p>Providing, laying and fixing 125 x 255 x 20mm Industrial Tile by National Tiles (split clay tile) or equivalent, of approved design, size, pattern &amp; color as per the finishing schedule, including fixing with Dry Bond, chipping, cutting, jointing and grouting material of approved quality &amp; using plastic spacers (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.</p> <p>i) Basement</p>   | 245   | Sft  | 240/-                   | 58800/-         |
| 7.7  |  | <p>Providing, laying and fixing 600mm x 600mm x 40mm (Concore Cementitious Panels) raised access floor 450mm high without covering, complete system of approved make, pattern &amp; color as per the finishing schedule (overall thickness &amp; floor height as shown in the drawings) including all required hardware's etc, complete in all respect, as per drawings, specifications and as directed by the Engineer.<br/><b>Contractor shall submit the Shop drawing (without any additional cost) before start of work .</b></p>   | 555   | Sft  | 150/-                   | 83250/-         |
|  |  |   |       |      | <p><b>8024050/-</b></p> |                 |

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|------|--|--|--------|------|---------------|-----------------|
| 1    | 2  | 3  | 5      | 6    | 7             | 8=5x7           |
| 8    |  | <b>WALL FINISHES</b><br>All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.  |        |      |               |                 |
| 8.1  |  | <b>PORCELAIN SKIRTING</b><br>Providing and fixing Porcelain tiles Skirting 4" high of approved make & colors over plastered surface including jointing with dry board, grouting with approved material, curing, cutting etc. complete in all respects as per specifications, drawings and instructions of the Engineer.<br>Base rate: 1350 Sq.m  | 160    | Sft  | 250/-         | 40,000/-        |
| 8.2  |  | <b>PORCELAIN DADO</b><br>Providing and fixing Porcelain tiles Dado 12" x 12" x 3/8" thick upto required height of approved make & colors over plastered surface including jointing with dry bond, grouting with approved material, curing, cutting etc. complete in all respects as per specifications, drawings and instructions of the Engineer.<br>Base rate only for Porcelain tiles : Rs.1350/ Sq.m                               |        |      |               |                 |
|      |  | i) Ground Floor  | 1,059  | Sft  | 250/-         | 264750/-        |
|      |  | ii) First Floor  | -      | Sft  | 255/-         | 211650/-        |
|      |  | iii) Second Floor  | 830    | Sft  | 260/-         | 215800/-        |
|      |  | iv) Third Floor  | 830    | Sft  | 265/-         | 219950/-        |
|      |  | v) Fourth Floor  | 830    | Sft  | 270/-         | 224100/-        |
|      |  | vi) Fifth Floor  | 830    | Sft  | 275/-         | 228250/-        |
|      |  | vii) Sixth Floor   | -      | Sft  |               |                 |
|      |  | viii) Roof   | -      | Sft  |               |                 |
| 8.3  |  | Providing and fixing of Pre-polished Marble tile Skirting 4" high (12" x 4" x 1/2") of approved colors with patterns, match with floor tiles over plastered surface, including jointing with dry bond, cutting, curing, etc complete in all respects as per drawings, specifications and the satisfaction of the Engineer.<br>Base rate for Marble Tile: 40/ Sft   |        |      |               |                 |
|      |  | i) Ground Floor  | 350    | Sft  | 70/-          | 24500/-         |
|      |  | ii) First Floor  | 120    | Sft  | 75/-          | 9000/-          |
|      |  | iii) Second Floor  | 300    | Sft  | 80/-          | 24000/-         |
|      |  | iv) Third Floor  | 330    | Sft  | 85/-          | 28050/-         |
|      |  | v) Fourth Floor  | 290    | Sft  | 90/-          | 26100/-         |
|      |  | vi) Fifth Floor  | 290    | Sft  | 95/-          | 27550/-         |
|      |  | vii) Sixth Floor   | 290    | Sft  | 100/-         | 29000/-         |
|      |  | viii) Roof   | 55     | Sft  | 100/-         | 5500/-          |
| 8.4  |  | Providing and fixing of Pre-polished National tile Skirting of approved colors with patterns, match with floor tiles over plastered surface, including jointing with dry bond, cutting, curing, etc complete in all respects as per drawings, specifications and the satisfaction of the Engineer.   | 30     | Sft  | 155/-         | 4650/-          |
| 8.5  |  | <b>PAINT (INTERNAL WALL SURFACE)</b><br>Providing and applying painting on all internal wall surface with Matt Enamel Paint of approved shade three coats over and including a coat of primer over plastered surface including preparation of surface, filling depression with putty, rubbing, sand papering and cleaning etc complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. |        |      |               |                 |
|      |  | i) Ground Floor  | 8,330  | Sft  | 55/-          | 458150/-        |
|      |  | ii) First Floor  | 9,250  | Sft  | 55/-          | 508750/-        |
|      |  | iii) Second Floor  | 12,400 | Sft  | 55/-          | 682000/-        |
|      |  | iv) Third Floor  | 13,165 | Sft  | 60/-          | 789900/-        |
|      |  | v) Fourth Floor  | 11,785 | Sft  | 60/-          | 707100/-        |
|      |  | vi) Fifth Floor  | 11,785 | Sft  | 60/-          | 707100/-        |
|      |  | vii) Sixth Floor   | 11,785 | Sft  | 60/-          | 707100/-        |
|      |  | viii) Roof   | 1,890  | Sft  | 60/-          | 113400/-        |



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| S.No                            | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY  | UNIT   | RATE<br>(Rs.)  | AMOUNT<br>(Rs.)  |
|---------------------------------|--|--|--|--|--|--|
| 1                               | 2  | 3  | 5  | 6  | 7  | 8=5x7  |
| 8.6                             |  | <p>Providing and laying Pre-Polished Marble Tiles/Slab one piece of approved make, colors &amp; size with borders, patterns including 3 grooves at nosing as per design including setting the tiles with dry bond sulry, grouting with matching colour approved grouting material in jointing, curing, cutting, chamfering edging/half D gola etc. (overall thickness as shown in the drawings) complete in all respect as per drawings, specifications and to the instructions of the Engineer.</p> <p>a) For tread 1" (25mm) thick</p> <ul style="list-style-type: none"> <li>i) Ground Floor</li> <li>ii) First Floor</li> <li>iii) Second Floor</li> <li>iv) Third Floor</li> <li>v) Fourth Floor</li> <li>vi) Fifth Floor</li> <li>vii) Sixth Floor</li> </ul> <p>b) For riser 1/2" (10mm) thick</p> <ul style="list-style-type: none"> <li>i) Ground Floor</li> <li>ii) First Floor</li> <li>iii) Second Floor</li> <li>iv) Third Floor</li> <li>v) Fourth Floor</li> <li>vi) Fifth Floor</li> <li>vii) Sixth Floor</li> </ul> | <p>195<br/>195<br/>195<br/>195<br/>195<br/>195<br/>195<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105</p> | <p>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft<br/>Sft</p> | <p>500/-<br/>500/-<br/>500/-<br/>550/-<br/>550/-<br/>550/-<br/>550/-<br/>150/-<br/>150/-<br/>150/-<br/>150/-<br/>150/-<br/>150/-<br/>150/-<br/>150/-</p> | <p>97500/-<br/>97500/-<br/>97500/-<br/>107250/-<br/>107250/-<br/>107250/-<br/>107250/-<br/>15750/-<br/>15750/-<br/>15750/-<br/>15750/-<br/>15750/-<br/>15750/-<br/>15750/-<br/>15750/-</p> |
| 8.7                             |  | <p>Providing and applying 3/4" thick 1:4 cement sand Pudlo plaster, using pudlo mixed with 2.25 kg/ cement bag on all internal surface of UG &amp; OHW Tanks at any height &amp; level, using chamfered edges, rounding off corner etc. including scaffolding complete in all respects as per drawing, standard, specifications and direction of the Engineer.</p>   | 3,280  | Sft  | 40/-   | 131200/-   |
| 8.8                             |  | <p>Providing, making and fixing Wooden Partiton wall 3" thick comprising of 8 mm thick MDF on either side over partial wood frame (top, bottom, vertical and horizontal) including all necessary hardware, mett enamel paint on expose surface termite proofing etc. complete in all respect, as per drawings and specifications and all works to be carried out The satisfaction of Engineer.</p>   | 4,030  | Sft  | 450/-  | 1813500/-  |
| Total Amount Carried to Summary |  |  |  |  |  | 9032800/-  |

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| S.No | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY   | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|------|--|--|-------|------|---------------|-----------------|
| 1    | 2  | 3  | 5     | 6    | 7             | 8=5x7           |
| 9    |  | <b>CEILING FINISHES</b><br>All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.   |       |      |               |                 |
| 9.1  |  | Providing and laying 24" x 24" x 1/2" thick Mineral fiber ceiling fixed in aluminum section complete with adjustable metal suspension system consisting of galvanized steel furring channel, intermediate channel, perimeter channel, aluminum angle / tee, including cutting of holes for lights fittings etc. Complete in all respects as per drawings, relevant specifications and as directed by the Engineer.   |       |      |               |                 |
|      |  | i) Ground Floor  | 180   | Sft  | 220/-         | 39600/-         |
|      |  | ii) First Floor  | -     | Sft  |               |                 |
|      |  | iii) Second Floor  | 290   | Sft  | 220/-         | 63800/-         |
|      |  | iv) Third Floor  | 290   | Sft  | 220/-         | 63800/-         |
|      |  | v) Fourth Floor  | 290   | Sft  | 220/-         | 63800/-         |
|      |  | vi) Fifth Floor  | 290   | Sft  | 220/-         | 63800/-         |
|      |  | vii) Sixth Floor   | 290   | Sft  | 220/-         | 63800/-         |
| 9.2  |  | Providing, fabricating and installing Gypsum board 24" x 24" x 1/2" thick moisture resistant false ceiling of approved color and shape of elephant brand or equivalent including adjustable metal framing suspension system, required Hardware, jointing tap, all cutting for light fixers & other design feature etc., complete in all respects, as per drawings, specifications and or as directed by the consultant / Engineer.   |       |      |               |                 |
|      |  | i) Ground Floor  | 1,530 | Sft  | 175/-         | 267750/-        |
|      |  | ii) First Floor  | 370   | Sft  | 175/-         | 64750/-         |
|      |  | iii) Second Floor  | 240   | Sft  | 175/-         | 42000/-         |
|      |  | iv) Third Floor  | 245   | Sft  | 175/-         | 42875/-         |
|      |  | v) Fourth Floor  | 240   | Sft  | 175/-         | 42000/-         |
|      |  | vi) Fifth Floor  | 240   | Sft  | 175/-         | 42000/-         |
|      |  | vii) Sixth Floor   | 240   | Sft  | 175/-         | 42000/-         |
| 9.3  |  | Providing, fabricating and installing 1/2" thick Gypsum board (4'-0" x 8'-0") false ceiling including adjustable metal framing suspension system, required Hardware and jointing tap, all cutting for light fixtures & other design feature including 1/2" MS flash gap, cutting of holes for lights fittings with providing & applying three coat of matte enamel paint of approved make & color shade including one coat of primer coat, filling putty etc. complete in all respects as per drawings, relevant specifications and as directed by the Engineer. |       |      |               |                 |
|      |  |  | 1,685 | Sft  | 200/-         | 337000/-        |

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| S.No                            | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY  | UNIT   | RATE<br>(Rs.)  | AMOUNT<br>(Rs.)   |
|---------------------------------|--|---|--|--|--|---|
| 1                               | 2  | 3   | 5  | 6  | 7  | 8=5x7   |
| 9.4                             |  | <p>Providing, fabricating and installing MDF sheet bulkhead ceiling comprising of 1/2" thick MDF board, partial wood framing system, required Hardware and jointing tap etc, all cutting for light fixers &amp; other design feature with providing &amp; applying three coat of matt enamel paint of approved make &amp; color shade including one coat of primer coat, filling putty etc., complete in all respects, as per drawings, specifications and or as directed by the Engineer. (payment will be made on exposed area)</p> <p>i) Ground Floor</p> <p>ii) First Floor</p> <p>iii) Second Floor</p> <p>iv) Third Floor</p> <p>v) Fourth Floor</p> <p>vi) Fifth Floor</p> <p>vii) Sixth Floor</p> | <p>285</p> <p>665</p> <p>710</p> <p>785</p> <p>900</p> <p>900</p> <p>900</p> | <p>Sft</p> <p>Sft</p> <p>Sft</p> <p>Sft</p> <p>Sft</p> <p>Sft</p> <p>Sft</p> | <p>450/-</p> <p>450/-</p> <p>450/-</p> <p>450/-</p> <p>450/-</p> <p>450/-</p> <p>450/-</p> | <p>128250/-</p> <p>299250/-</p> <p>319500/-</p> <p>353250/-</p> <p>405000/-</p> <p>405000/-</p> <p>405000/-</p> |
| Total Amount Carried to Summary |  |   |  |  |  | 3554225/-   |

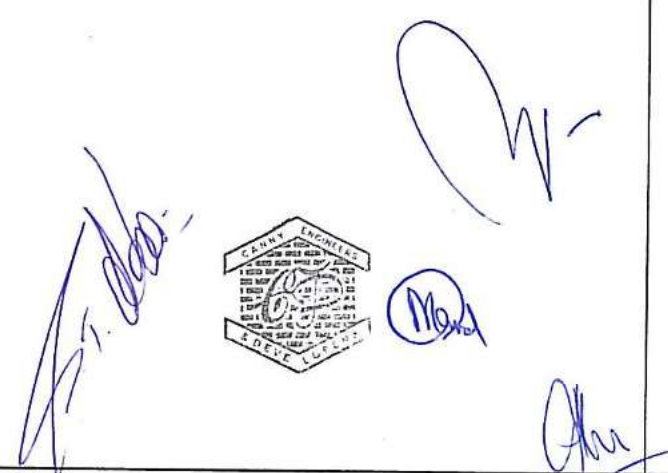
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**EA CONSULTING ENGINEERS**  
 10/10, Block 10, Phase II, SMIU City Campus, Karachi  
 021-3554225  
 www.eaconsulting.com

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**3554225/-**

| S.No   | GOVT.OF SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY                             | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|--|---|---------------------------------|------|---------------|-----------------|
| 1  | 2  | 3   | 5                               | 6    | 7             | 8=5x7           |
| 10   |  | <b>External Finishes</b><br>All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.   |                                 |      |               |                 |
| 10.1   |  | <b>COMB PLASTER</b><br>Providing and applying 20mm (3/4") thick comb plaster to external wall etc. with cement mortar 1:4 including all corners, recesses, jambs, raking out joints of masonry, scaffolding etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (up to any height).   | 1.860                           | Sft  | 105/-         | 195300/-        |
| 10.2   |  | Providing & applying pure acrylic water based, durable moderate texture that gives a traditional look with crack bridging of 0.6mm, breathable, anti carbonation coating with its unique long lasting colors. One coat alkali resistant primer, two coats heritage traditional texture and two final coats of approved Jota shield color last of approved color shade including surface preparation & as per instruction of the manufacturer etc complete in all respects as per drawings, specifications and the satisfaction of the Engineer. | 28.720                          | Sft  | 60/-          | 1723200/-       |
| 10.3   |  | Providing and fixing approved Stone (Gadap / Gizri) cladding 4" x 2" & 2" x 2" around windows/ventilators or where required with 1:4 cement sand mortar, grouting with the pigmented approved grouting material including cutting, jointing, screwing, clip & clamping system, curing, etc complete in all respect as per drawings, specifications and the satisfaction of the Engineer.  | 3.160                           | Rft  | 100/-         | 316000/-        |
| 10.4   |  | a) 4" x 2"<br>b) 2" x 2"  | 3.160                           | Rft  | 90/-          | 284400/-        |
| 10.4   |  | Providing and fixing RCC/C.C Pre-Cast Coping /Gola of approved colors, size & thickness shown on the drawing lay over 1/2" thick base of cement mortar in 1:4 C.M., including cutting, jointing, screwing, grouting & curing, etc complete in all respects as per drawings, specifications and the satisfaction of the Engineer.  | 1.435                           | Rft  | 250/-         | 358750/-        |
| 10.5   |  | Providing and making Planter/ land escaping as shown on drawing all works comprising (earth filling, sweet earth with manure plants and grassing compacting, curing, finishing & leveling) etc. excluding Tree, complete in all respects as per drawing, standard, specifications and direction of the Engineer.  | 70                              | Sft  | 500/-         | 35000/-         |
|  |  |   | Total Amount Carried to Summary |      |               | 2912650/-       |

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# PLUMBING

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| S. NO.                       | DESCRIPTION   | TOTAL AMOUNT IN PAK<br>- RUPEES |
|------------------------------|---|---------------------------------|
| <b>A. SCHEDULE ITEMS</b>     |   |                                 |
| 1                            | Plumbing Fixtures   | 763,328                         |
|                              | <i>at par</i> ✓ SUB-TOTAL-A Rs.   | 763,328                         |
|                              | Add .....% Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH | —                               |
|                              | TOTAL-A Rs.   | 763,328/-                       |
| <b>B. NON-SCHEDULE ITEMS</b> |   |                                 |
| 1                            | Plumbing Fixtures   | 23800/-                         |
| 2                            | Cold and Hot Water Supply Piping  | 612620/-                        |
| 3                            | Isolation Valves  | 92400/-                         |
| 4                            | Plumbing Specialties  | 21900/-                         |
| 5                            | Packaged Pump Sets  | 55000/-                         |
| 6                            | Water Tank Connection   | 9500/-                          |
| 7                            | Water Cooler & Water Filter   | 390000/-                        |
| 8                            | Soil, Waste, RW and Vent Pipes  | 613000/-                        |
| 9                            | Drainage Specialties  | 147180/-                        |
| 10                           | Manholes and Gully traps  | 165000/-                        |
| 11                           | External Connection   | 100000/-                        |
|                              | SUB-TOTAL-B Rs.   | 2230400/-                       |
|                              | GRAND TOTAL AMOUNT (A+B)  | 2993727/-                       |



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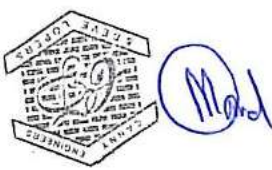
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| S.No.                            | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)   |
|----------------------------------|---|--|-----|------|---------------|-------------------|
| 1                                | 2   | 3  | 4   | 5    | 6             | 7=(4X6)           |
| A. (SCHEDULE ITEMS)              |   |  |     |      |               |                   |
| 1                                | Chapter #1,<br>Item #2 (A), Page<br>#1                        | <b>PLUMBING FIXTURES</b><br>Providing & fixing squatting type white glazed earthen ware w.c pan with front flush inlet & complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign Equivalent).   |     |      |               |                   |
|                                  | (a)ii   | W.C.pan 23" & low level earthen ware flush tank 3 gallons with 4" dia white glazed earthen were trap and plastic thumble.  | 11  | Nos  | 5,772.80      | 63,500.80         |
| 2                                | Chapter #1,<br>Item #5, Page<br>#2                            | Providing & fixing European white glazed earthen ware wash down w.c pan complete with and 1/c the cost of white/black plastic seat ( best Quality) and lid with c.p brass hinges and buffers, 3 gallons white glazed earthen ware low level foushing cistern with siphon fitting 1-1/2" dia white porcelain enamelled flush bend 3/4" dia and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4. (Foreign Quality)       | 23  | Nos  | 11,477.40     | 263,980.20        |
| 3a                               | Chapter #1,<br>Item #10, Page<br>#3                           | Providing and fixing 24" x 18" lavatory basin in white glazed earthen ware complete with & 1/c the cost of W.I. or C.I cantilever brackets 6 inches built into walls, painted white in two coats after a primary coat of red lead paint a pair of 1/2" dia rubber plug & chrome plated brass chain 1-1/4" dia, malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connectios and making good in cement concrete 1:2:4 (Foreign or Equivalent) | 34  | Nos  | 4,928.00      | 167,552.00        |
| 3b                               | Chapter #1,<br>Item #11, Page<br>#3                           | Add extra for labour for providing & fixing of earthen ware pedestal white or coloured glazed (Foreign or Equivalent)  | 34  | Nos  | 2,533.47      | 86,137.98         |
| 4                                | Chapter #1,<br>Item #19, Page<br>#6                           | Providing & Fixing steel sinks satinless local make complete with cast iron or wrought iron brackets 6 inches built in wall, 1 1/2" c.p rubber plug chrome plated brass chain, 1-1/2" c.p brass waste, with 1-1/2" P.V.C waste pipe & making requisite number of holes in wall & plinth & floor for pipe connection & making good in cement concrete 1:2:4.  |     |      |               |                   |
|                                  | (a)   | Steel sink stainless sized 40" x 20" local make (Standard Pattern)   | 0   | Nos  | 5,052.30      | -                 |
|                                  | (c)   | Steel sink stainless sized 33" x 18" local make (Standard Pattern)   | 0   | Nos  | 5,712.30      | -                 |
| 5                                | Chapter #2,<br>Item #1, Page<br>#7                            | Providing & Fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long c.p brass screws.  |     |      |               |                   |
|                                  | i b   | Towel rail 36" long<br>3/4" dia round or square (Superior quality)   | 34  | Nos  | 1,412.95      | 48,040.30         |
| 6                                | Chapter #2,<br>Item #2, Page<br>#7                            | Providing & fixing c.p brass toilet paper holder of standard size with chrome plated brass brackets complete (similar to twylords desian No.1108)  |     |      |               |                   |
|                                  | b   | Superior Quality   | 34  | Nos  | 1,071.40      | 36,427.60         |
| 7                                | Chapter #2,<br>Item #3, Page<br>#7                            | Providing & Fixing 24" x 18" bavelled edge mirror of begium glass complete with 1/8" thick hard board and c.p screws fixed to wooden pleat.  |     |      |               |                   |
|                                  | b   | Superior Quality   | 34  | Nos  | 2,376.00      | 80,784.00         |
| 8                                | Chapter #2,<br>Item #5, Page<br>#8                            | Supplying & Fixing soap tray earthen ware with c.p screws etc. complete.   | 34  | Nos  | 497.20        | 16,904.80         |
| <b>AMOUNT CARRIED TO SUMMARY</b> |   |  |     |      |               | <b>763,327.68</b> |

| S.No.                            | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|----------------------------------|---|--|-----|------|---------------|-----------------|
| 1                                | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| <b>B. (NON-SCHEDULE ITEMS)</b>   |   |  |     |      |               |                 |
| 1                                |   | <b>PLUMBING FIXTURES:</b>                              |     |      |               |                 |
| ii                               |   | Providing and fixing bath toilet accessories as under: |     |      |               |                 |
|                                  |   | Hand Spray / Muslim shower                             | 34  | Nos  | 200/-         | 6800/-          |
|                                  |   | WC Cleaning Brush                                      | 34  | Nos  | 500/-         | 17000/-         |
| <b>AMOUNT CARRIED TO SUMMARY</b> |   |  |     |      |               | <b>23800/-</b>  |





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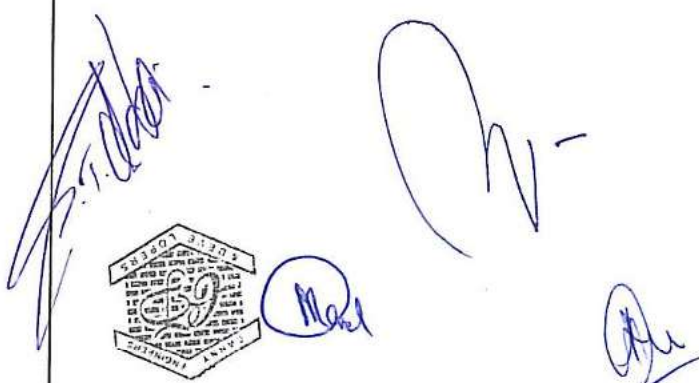
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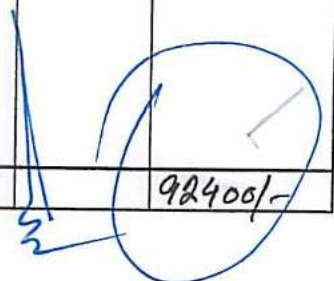
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| S.No.   | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY  | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---|---|--|------|------|---------------|-----------------|
| 1   | 2   | 3  | 4    | 5    | 6             | 7=(4X6)         |
|   |   | <b>WATER SUPPLY:</b>   |      |      |               |                 |
| 2   |   | <b>Cold and Hot Water Supply Piping</b><br>Supply, installation, testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports, cutting, filling, testing/commissioning and all accessories as indicated on the drawing, as per specifications and Engineers approval. |      |      |               |                 |
| i   |   | 3/4" dia   | 1030 | Rft  | 180/-         | 185400/-        |
| ii  |   | 1" dia   | 50   | Rft  | 250/-         | 12500/-         |
| iii   |   | 1 1/4" dia   | 400  | Rft  | 300/-         | 120000/-        |
| iv  |   | 1 1/2" dia   | 110  | Rft  | 365/-         | 40150/-         |
| v   |   | 2" dia   | 410  | Rft  | 427/-         | 175070/-        |
| vi  |   | 2 1/2" dia   | 100  | Rft  | 795           | 79500/-         |
| vii   |   | 3" dia   | 0    | Rft  |               |                 |
| viii  |   | 4" dia   | 0    | Rft  |               |                 |
| <br><br><br> |   |  |      |      |               |                 |
| AMOUNT CARRIED TO SUMMARY   |   |  |      |      |               | 612620/-        |

| S.No.                     | GOVT. OF SINDH<br>CSR 2012      | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------|---------------------------------|--|-----|------|---------------|-----------------|
|                           | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                         | 2                               | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 3                         |                                 | <b>Isolation Valves</b><br>Providing and fixing of PPR Coated PN-20 Gate valves of bronze material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per specifications and Engineers approval.                     |     |      |               |                 |
| i                         |                                 | 3/4" dia   | 6   | Nos  | 1900/-        | 11400/-         |
| ii                        |                                 | 1" dia   | 0   | Nos  |               |                 |
| iii                       |                                 | 1 1/4" dia   | 1   | Nos  | 3500/-        | 3500/-          |
| iv                        |                                 | 1 1/2" dia   | 0   | Nos  |               |                 |
| v                         |                                 | 2" dia   | 11  | Nos  | 6500/-        | 71500/-         |
| vi                        |                                 | 2 1/2" dia   | 0   | Nos  |               |                 |
| vii                       |                                 | 3" dia   | 0   | Nos  |               |                 |
| viii                      |                                 | 4" dia   | 0   | Nos  |               |                 |
| 4                         |                                 | <b>Non Return Valves</b><br>Providing and fixing of PN-20 non return Valve of Bronze Material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per type indicated in specifications and as per Engineers approval. |     |      |               |                 |
| i                         |                                 | 1 1/2" dia   | 0   | Nos  |               |                 |
| ii                        |                                 | 2" dia   | 2   | Nos  | 3000/-        | 6000/-          |
| iii                       |                                 | 3" dia   | 0   | Nos  |               |                 |
| AMOUNT CARRIED TO SUMMARY |                                 |  |     |      |               | 92400/-         |


  
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| S.No.                     | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------|---|---|-----|------|---------------|-----------------|
| 1                         | 2   | 3   | 4   | 5    | 6             | 7=(4X6)         |
| 5                         |   | <b>Plumbing Specialties</b>   |     |      |               |                 |
| a                         |   | Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval. |     |      |               |                 |
| i                         |   | 1/2" dia. Bib Tap   | 1   | Nos. | 2000/-        | 2000/-          |
| ii                        |   | 1" Air Relief Valve   | 1   | Nos. | 2100/-        | 2100/-          |
| iii                       |   | 2" dia foot valve   | 2   | Nos. | 3000/-        | 6000/-          |
| iv                        |   | 2" Y-type Strainer  | 2   | Nos. | 2500/-        | 5000/-          |
| v                         |   | 2" Flexible Connection  | 4   | Nos. | 1700/-        | 6800/-          |
| AMOUNT CARRIED TO SUMMARY |   |   |     |      |               | 21900/-         |

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| S.No.                     | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------|---|---|-----|------|---------------|-----------------|
| 1                         | 2   | 3   | 4   | 5    | 6             | 7=(4X6)         |
| 6                         |   | <p><b>Packaged Pump Sets</b><br/>Supply and installation of below mentioned Packaged pump sets including pump foundation, control panel, wiring from panel to pumps, valves, piping, accessories, etc. from Suction header to Discharge header, as indicated on the drawing, as per specifications and Engineers approval.</p> <p>i<br/>Water Transfer Pump set (1 Duty),<br/>Flow = 70 GPM @ 130 ft head</p> | 1   | Set  | 55000/-       | 55000/-         |
| AMOUNT CARRIED TO SUMMARY |   |   |     |      |               | 55000/-         |

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| S.No.                     | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------|---|---|-----|------|---------------|-----------------|
| 1                         | 2   | 3   | 4   | 5    | 6             | 7=(4X6)         |
| 7                         |   | <b>Water Tank</b>   |     |      |               |                 |
| a                         |   | Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications. |     |      |               |                 |
| i                         |   | 2" Connection to RCC water tanks  | 1   | No.  | 3000/-        | 3000/-          |
| ii                        |   | Connection to overhead water tanks using Float switch   | 1   | No.  | 3000/-        | 3000/-          |
| iii                       |   | Cast Iron Medium Duty Cover For RCC water tanks   | 1   | No.  | 3500/-        | 3500/-          |
| AMOUNT CARRIED TO SUMMARY |   |   |     |      |               | 9500/-          |

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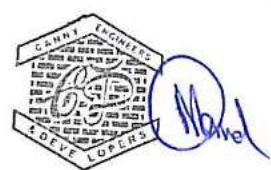
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| S.No.                     | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------|---|--|-----|------|---------------|-----------------|
| 1                         | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 8<br>a                    |   | <p><b>Water Cooler</b><br/>Supply and installation of Stainless Steel Electric water cooler of below mentioned capacity with two taps, R-22 Refrigeration system, S.Steel Tank safety tested at 10kg/cm2 (142 p.s.i.) with recommended maximum working pressure of 3kg/cm2 (42 p.s.i.) including all accessories like Valves, interconnecting piping, Drain tray and drain connections as indicated in the drawings, as per specifications and engineers approval.</p> | 6   | No.  | 50000/-       | 300000/-        |
| b                         |   | <p><b>Water Filter</b><br/>Supply and installation of 3 stage UV Water filter having minimum flow rate of 0.5 gpm including valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.</p>  | 6   | No.  | 15000/-       | 90000/-         |
| AMOUNT CARRIED TO SUMMARY |   |  |     |      |               | 390000/-        |

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| S.No.                     | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY                                   | UNIT                                  | RATE<br>(Rs.)                                 | AMOUNT<br>(Rs.)  |
|---------------------------|---|---|---------------------------------------|---------------------------------------|---|--|
| 1                         | 2   | 3   | 4                                     | 5                                     | 6   | 7=(4X6)  |
| 9                         |   | <p><b>Soil, Waste, RW and Vent Pipes</b><br/>Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent &amp; RW pipes with Kite mark on pipes and fittings including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y tee etc.) as indicated on the drawing, as per specifications and Engineers approval.</p> <p>2" dia<br/>3" dia<br/>4" dia</p> <p>Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.</p> <p>6" dia</p> | <p>310<br/>600<br/>480</p> <p>380</p> | <p>Rft<br/>Rft<br/>Rft</p> <p>Rft</p> | <p>200/-<br/>250/-<br/>400/-</p> <p>550/-</p> | <p>62000/-<br/>150000/-<br/>192000/-</p> <p>209000/-</p> |
| AMOUNT CARRIED TO SUMMARY |   |   |                                       |                                       |   | 613000/-   |

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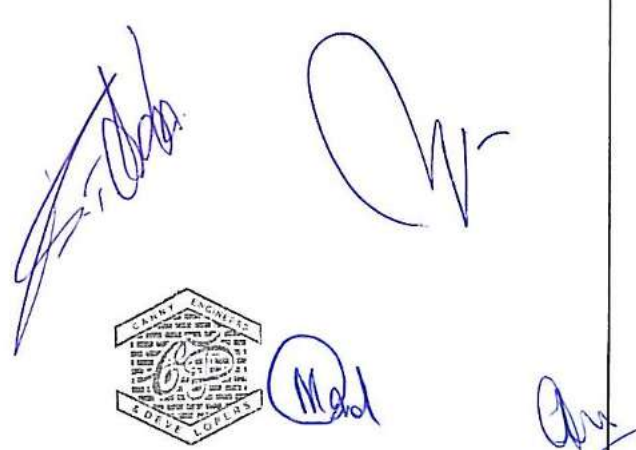
**CANN ENGINEERS**  
CANN ENGINEERS  
100, ALFARAKI STREET, KARACHI  
TEL: 37321111, 37321112, 37321113  
FAX: 37321114, 37321115  
WWW.CANNENGINEERS.COM

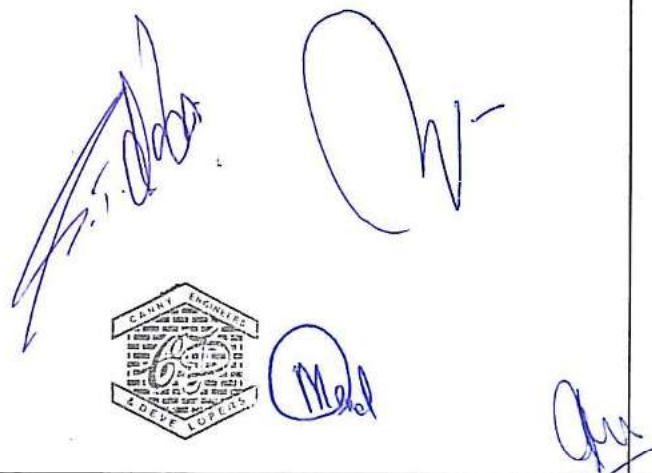
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**613000/-**

| S.No.  | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---|--|-----|------|---------------|-----------------|
| 1  | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 10   |   | <b>Drainage Specialties</b>  |     |      |               |                 |
| a  |   | Providing and fixing of Multi floor trap with multiple dia inlet and Single outlet and cleanout plug of the approved self cleaning design with S.Steel grating as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval. | 53  | Nos  | 2000/-        | 106000/-        |
| c  |   | Providing and fixing of PVC Roof Drains with Over Drain of Dome Type with PVC/Stainless Steel Dome with 6" Outlet, as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval.   | 2   | Nos  | 2000/-        | 4000/-          |
| d  |   | Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.  |     |      |               |                 |
| i  |   | 2" dia   | 2   | Nos  | 500/-         | 1000/-          |
| ii   |   | 3" dia   | 2   | Nos  | 590/-         | 1180/-          |
| e  |   | Supply and installation of 12" wide, 8" High internal heavy duty Cast Iron Inlet Drain as specified and shown on the drawing, as per specifications and Engineers approval.  | 10  | Rft  | 3500/-        | 35000/-         |
|  |   |  |     |      |               |                 |
| AMOUNT CARRIED TO SUMMARY  |   |  |     |      |               | 147,180         |

| S.No.  | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---|--|-----|------|---------------|-----------------|
| 1  | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 11   |   | <b>Manholes and Gully traps</b>  |     |      |               |                 |
| a  |   | Construction of 30" x 30" Sanitary sewage manhole with 24" x 24" Medium duty Cover (Min Weight = 60 kg) cover as specified and shown on the drawing, as per specifications and Engineers approval.   | 3   | Nos. | 20000/-       | 60000/-         |
| b  |   | Construction of 18" x 18" gully trap with 10" P- trap and 18" x 18" cover (min Weight =40 kg) as specified and shown on the drawing, as per specifications and Engineers approval.   | 3   | Nos. | 15000/-       | 45000/-         |
| c  |   | Construction of 2'-6" x 2'-6" Pressure Breaking manhole with 2'-0" x 2'-0" medium duty (67Kg) cover as specified and shown on the drawing, as per specifications and Engineers approval.   | 1   | Nos  | 35000/-       | 35000/-         |
| d  |   | Providing and fixing of Single Hinge, 12" dia PN-10 back flow preventer/Flap valve as per DIN EN 1092-2 for storm water outlet connection into the nala as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval. | 1   | Nos  | 25000/-       | 25000/-         |
|  |   |  |     |      |               |                 |
| AMOUNT CARRIED TO SUMMARY  |   |  |     |      |               | 165000/-        |

| S.No.                     | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------------|---|---|-----|------|---------------|-----------------|
| 1                         | 2   | 3   | 4   | 5    | 6             | 7=(4X6)         |
| 12                        |   | <p><b>External Connection</b><br/>Connection to external Sewage network, after including coordination with external drawings, the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.</p> | 1   | Job  | 100000/-      | 100000/-        |
| AMOUNT CARRIED TO SUMMARY |   |   |     |      |               | 100000/-        |

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# **FIRE FIGHTING WORKS**

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| S. NO.                       | DESCRIPTION  | TOTAL AMOUNT IN PAK RUPEES |
|------------------------------|--|----------------------------|
| <b>A. SCHEDULE ITEMS</b>     |  |                            |
|                              |  |                            |
|                              | ✓ SUB-TOTAL-A Rs.  |                            |
|                              | Add ..... % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH |                            |
|                              | TOTAL-A Rs.  |                            |
| <b>B. NON-SCHEDULE ITEMS</b> |  |                            |
| 1                            | Fire Extinguishers   | 144000/-                   |
| 2                            | Fire Piping  | 276000/-                   |
| 3                            | Fire Valves  | 68000/-                    |
| 4                            | Fire Hose Rack   | 700000/-                   |
| 5                            | Automatic Air Vent   | 25000/-                    |
|                              |  |                            |
|                              | SUB-TOTAL-B Rs.  |                            |
|                              | GRAND TOTAL AMOUNT (A+B)   | 1213000/-                  |



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| S.No.               | GOVT. OF<br>SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched.ref. | DESCRIPTION | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---------------------|--|-------------|-----|------|---------------|-----------------|
| 1                   | 2  | 3           | 4   | 5    | 6             | 7=(4X6)         |
| A. (SCHEDULE ITEMS) |  |             |     |      |               |                 |
|                     |  |             |     |      |               |                 |
| TOTAL               |  |             |     |      |               |                 |



| S.No.                          | GOVT. OF<br>SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched.ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|--|---|-----|------|---------------|-----------------|
| <b>B. (NON-SCHEDULE ITEMS)</b> |  |   |     |      |               |                 |
| 1                              |  | <b>FIRE-PROTECTION SPECIALTIES</b>  |     |      |               |                 |
|                                |  | <b>Fire Extinguishers</b><br>Supply and installation of below mentioned Fire Extinguishers as per drawings and Specifications |     |      |               |                 |
|                                | i  | 6 Kg CO2 wall mounted fire Extinguisher with wall mounted bracket   | 16  | Nos  | 6000/-        | 96000/-         |
|                                | ii   | 5 Kg ABC Type Dry powder Extinguishers with wall mounted bracket  | 16  | Nos  | 3000/-        | 48000/-         |
| <b>TOTAL</b>                   |  |   |     |      |               | 144000/-        |

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| S.No.        | GOVT. OF<br>SINDH CSR<br>2012   | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------|---------------------------------|---|-----|------|---------------|-----------------|
|              | Item #/Page#/<br>Vol.sched.ref. |   |     |      |               |                 |
| 2            |                                 | <b>Fire Piping</b><br>Supply, installation, testing and Commissioning of Seamless black steel SCH. 40 pipe as per ASTM A53 grade B with Heavy Duty welded fittings, Galvanized Supports and handers, supports, painting and coding fire protection system of following sizes. |     |      |               |                 |
|              | i                               | 3" dia  | 310 | Rft  | 800/-         | 248000/-        |
| ii           |                                 | 1 1/2" dia  | 70  | Rft  | 400/-         | 28000/-         |
| <b>TOTAL</b> |                                 |   |     |      |               | 276000/-        |



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| S.No. | GOVT. OF<br>SINDH CSR<br>2012   | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|-------|---------------------------------|--|-----|------|---------------|-----------------|
|       | Item #/Page#/<br>Vol.sched.ref. |  |     |      |               |                 |
| 3     |                                 | <b>Fire Valves</b><br>Supply, installation, testing and Commissioning of O.S and<br>Y Cast Iron Gate Valves with of PN-16 with EPDM Seal as<br>per ASTM A536 flanged type as required as per drawings,<br>specifications and Engineers Recommendation. |     |      |               |                 |
|       | i                               | 1 1/2" dia   | 7   | Nos. | 8000/-        | 56000/-         |
|       | ii                              | 3" dia   | 1   | Nos. | 12000/-       | 12000/-         |
|       |                                 | TOTAL  |     |      |               | 68000/-         |



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| S.No.        | GOVT. OF<br>SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------|--|---|-----|------|---------------|-----------------|
| 4            |  | <p><b>Fire Hose Rack</b><br/>Supply, installation, testing and Commissioning of Single compartment Fire Hose cabinet (Exposed or recessed type) with 1.2mm thick MS material and 70micron red oxide coating with lock and handle, and front Glass along with following equipment as per drawings, specifications and Engineers Recommendation.<br/>1-1/2" diameter, 30m high pressure Hose Rack with Multi Jet flow nozzle tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray and Shut off.</p> | 7   | Nos. | 100000/-      | 700000/-        |
| <b>TOTAL</b> |  |   |     |      |               | 700000/-        |



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| S.No. | GOVT. OF<br>SINDH CSR<br>2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|-------|--|--|-----|------|---------------|-----------------|
| 5     |  | <p><b>Automatic Air Vent</b><br/>1" Automatic Air Vent as per ASTM A126 Class B of Cast iron Body and Stainless Steel Orifice and Float to be installed on top of each Riser with Pressure Gauge</p> | 1   | Nos  | 25000/-       | 25000/-         |
| TOTAL |  |  |     |      |               | 25000/-         |



M. Ahmad

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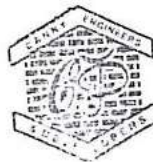
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# **ELECTRICAL WORKS**

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| S. NO.                       | DESCRIPTION   | TOTAL AMOUNT IN PAK RUPEES |
|------------------------------|---|----------------------------|
| <b>A. SCHEDULE ITEMS</b>     |   |                            |
| 1                            | SUB HEAD I MAIN & SUBMAINS  | 2,962,710                  |
| 2                            | SUB HEAD II POINT WIRING  | 1,108,530                  |
| 3                            | SUB HEAD XI ELECTRICAL ACCESSORIES  | 495,835                    |
|                              | ✓ SUB-TOTAL-A Rs.   | 4,567,075                  |
|                              | Add .....% Above/Below/At par on Electrical Works of Composite Schedule of Rates 2012, GOVT. OF SINDH | —                          |
|                              | TOTAL-A Rs.   | 4,567,075                  |
| <b>B. NON-SCHEDULE ITEMS</b> |   |                            |
| 1                            | L.V. PANELS & DISTRIBUTION BOARDS   | 2448300/-                  |
| 2                            | LOW VOLTAGE CABLES AND WIRES  | 1266550/-                  |
| 3                            | CONDUITS & PIPES  | 110325/-                   |
| 4                            | WIRING ACCESSORIES  | 676050/-                   |
| 5                            | LIGHT FIXTURE & FANS  | 2176800/-                  |
| 6                            | UPS SYSTEM  | 1040000/-                  |
| 7                            | CABLE TRAY & CABLE TRUNKING   | 2758700/-                  |
| 8                            | DIESEL GENERATOR FOUNDATION / PAD   | 200000/-                   |
| 9                            | LIGHTNING PROTECTION SYSTEM (LPS)   | 1339200/-                  |
| 10                           | EARTHING SYSTEM   | 318000/-                   |
|                              |   | 1,281,950/-                |
|                              |   | 2,415,980/-                |
|                              |   | 12,006,605                 |
|                              |   | 16,573,680                 |
|                              | SUB-TOTAL-B Rs.   | 12333925/-                 |
|                              | GRAND TOTAL AMOUNT (A+B)  | 16901000/-                 |



M.A. Khan

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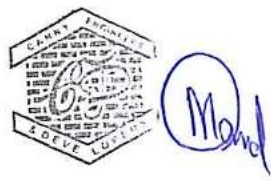
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| S.No.                                   | GOVT. OF SINDH<br>CSR 2012                     | DESCRIPTION   | QTY   | UNIT     | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---|--|---|-------|----------|---------------|-----------------|
| 1                                       | 2  | 3   | 4     | 5        | 6             | 7 = (4 x 6)     |
| <b>PART-A (SCHEDULE ITEMS)</b>          |  |   |       |          |               |                 |
| 1                                       | SUB HEAD I                                     | <u>SUB HEAD I MAIN &amp; SUBMAINS</u>   |       |          |               |                 |
|   | D.   | <u>WITH 3 WIRE PVC CONDUIT RECESSED IN THE WALL OR COLUMN</u>   |       |          |               |                 |
| a)                                      | Item # 24(D)/<br>P-4/ Second<br>Edition-2012   | Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/0.29 copper conductor in 3/4" dia PVC conduit recessed in the wall or column as required. | 2,250 | Per Mtr. | 294           | 661,500         |
| b)                                      | Item # 25(D)/<br>P-4/ Second<br>Edition-2012   | Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/0.36 copper conductor in 3/4" dia PVC conduit recessed in the wall or column as required. | 1,950 | Per Mtr. | 338           | 659,100         |
|   | N.   | <u>WITH 4 CORE OVERHEAD OR UNDERGROUND 300/500</u>  |       |          |               |                 |
| c)                                      | Item # 99(N)/<br>P-12/ Second<br>Edition-2012  | Providing & laying (MAIN or SUB MAIN)PVC insulated & PVC sheeted with 4 core copper conductor 300/500 volts size 4mm <sup>2</sup>                           | 20    | Per Mtr. | 361           | 7,220           |
| d)                                      | Item # 100(N)/<br>P-12/ Second<br>Edition-2012 | Providing & laying (MAIN or SUB MAIN)PVC insulated & PVC sheeted with 4 core copper conductor 300/500 volts size 6mm <sup>2</sup>                           | 145   | Per Mtr. | 500           | 72,500          |
| e)                                      | Item # 101(N)/<br>P-12/ Second<br>Edition-2012 | Providing & laying (MAIN or SUB MAIN)PVC insulated & PVC sheeted with 4 core copper conductor 300/500 volts size 10mm <sup>2</sup>                          | 200   | Per Mtr. | 742           | 148,400         |
|   | O.   | <u>WITH 4 CORE OVERHEAD OR UNDERGROUND 600/1000</u>   |       |          |               |                 |
| f)                                      | Item # 102(O)/<br>P-12/ Second<br>Edition-2012 | Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 16mm <sup>2</sup>                        | 120   | Per Mtr. | 1,300         | 156,000         |
| g)                                      | Item # 104(O)/<br>P-12/ Second<br>Edition-2012 | Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 35mm <sup>2</sup>                        | 110   | Per Mtr. | 2,529         | 278,190         |
| h)                                      | Item # 105(O)/<br>P-12/ Second<br>Edition-2012 | Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 50mm <sup>2</sup>                        | 205   | Per Mtr. | 3,312         | 678,960         |
| j)                                      | Item # 109(O)/<br>P-13/ Second<br>Edition-2012 | Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 150mm <sup>2</sup>                       | 30    | Per Mtr. | 10,028        | 300,840         |
| CARRIED TO ELECTRICAL SUMMARY =====>>>> |  |   |       |          |               | 2,962,710       |



| S.No.                                  | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT      | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---|---|-----|-----------|---------------|-----------------|
| 1                                      | 2   | 3   | 4   | 5         | 6             | 7 = (4 x 6)     |
| 2<br>a)                                | SUB HEAD II<br>Item # 124/<br>P-15/ Second<br>Edition-2012    | <u>SUB HEAD II POINT WIRING</u><br>Wiring for light or fan point with 3/029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required. | 981 | Per Point | 1,130         | 1,108,530       |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |   |   |     |           |               | 1,108,530       |



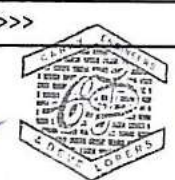
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| S.No.                                   | GOVT. OF SINDH<br>CSR 2012                  | DESCRIPTION  | QTY | UNIT    | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---|---|--|-----|---------|---------------|-----------------|
|   | Item #/Page#/<br>Vol.sched ref.             |  |     |         |               |                 |
| 1                                       | 2   | 3  | 4   | 5       | 6             | 7 = (4 x 6)     |
| 3                                       | SUB HEAD XI                                 | <u>SUB HEAD XI ELECTRICAL ACCESSORIES</u>                    |     |         |               |                 |
|   | B.  | <u>CEILING ROSE</u>  |     |         |               |                 |
| a)                                      | Item # 228/<br>P-33/ Second<br>Edition-2012 | Providing & fixing Bakelite ceiling rose with two terminals. | 840 | Per No. | 72            | 60,480          |
|   | C.  | <u>FAN</u>   |     |         |               |                 |
| b)                                      | Item # 234/<br>P-34/ Second<br>Edition-2012 | Providing & fixing Brass Ceiling fan 48" (good quality)      | 6   | Per No. | 3,020         | 18,120          |
| c)                                      | Item # 235/<br>P-34/ Second<br>Edition-2012 | Providing & fixing Brass Ceiling fan 56" (good quality)      | 131 | Per No. | 3,185         | 417,235         |
| CARRIED TO ELECTRICAL SUMMARY =====>>>> |   |  |     |         |               | 495,835         |

| S.No.  | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)  |
|--|---|--|-----|------|---------------|------------------|
| 1  | 2   | 3  | 4   | 5    | 6             | 7 = (4 x 6)      |
| <b>PART-B (NON-SCHEDULE ITEMS)</b>                     |   |  |     |      |               |                  |
| 1  |   | <b>L.V. PANELS &amp; DISTRIBUTION BOARDS</b>   |     |      |               |                  |
| a)   |   | Supply, installation, testing & commissioning of Wall/Flush mounted Main Distribution Board (MDB) / Sub Main Distribution Board (SMDB) / Distribution Boards (DB), made with 16 SWG sheet steel metal, as per single line diagram, dust protected, vermin proof housing coated with approved color having all the necessary switching & protections, including all mounting accessories as per specifications and drawings, complete in all respect. |     |      |               |                  |
| i  |   | MDB-SMIU with 75 kVAR PFI Panel (Form-2, Type-2)   | 1   | No.  | 800000/-      | 800000/-         |
| ii   |   | EMDB-SMIU (Form-2, Type-2)   | 1   | No.  | 500000/-      | 500000/-         |
| iii  |   | SMDB-DC (Form-2, Type-2)   | 1   | No.  | 119000/-      | 119000/-         |
| iv   |   | SMDB-IT (Form-2, Type-2)   | 1   | No.  | 200000/-      | 200000/-         |
| v  |   | SMDB-UPS-IT (Form-2, Type-2)   | 1   | No.  | 87000/-       | 87000/-          |
| vi   |   | DB-IT-GF   | 1   | No.  | 43000/-       | 43000/-          |
| vii  |   | DB-IT-1F   | 1   | No.  | 32000/-       | 32000/-          |
| viii   |   | DB-IT-2F   | 1   | No.  | 38000/-       | 38000/-          |
| ix   |   | DB-IT-3F   | 1   | No.  | 35000/-       | 35000/-          |
| x  |   | DB-IT-4F   | 1   | No.  | 38000/-       | 38000/-          |
| xi   |   | DB-IT-5F   | 1   | No.  | 38000/-       | 38000/-          |
| xii  |   | DB-IT-6F   | 1   | No.  | 38000/-       | 38000/-          |
| xiii   |   | DB-IT-ICT-GF   | 1   | No.  | 35000/-       | 35000/-          |
| xiv  |   | DB-IT-ICT-2F   | 1   | No.  | 48000/-       | 48000/-          |
| xv   |   | DB-DC  | 1   | No.  | 35000/-       | 35000/-          |
| b)   |   | Supply, installation, testing & commissioning of following Isolators, in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories as per specification & drawing, complete in all respect.  |     |      |               |                  |
| i  |   | 20A TPN Isolator Weatherproof type   | 1   | No.  | 15100/-       | 15100/-          |
| ii   |   | 40A TPN Isolator Weatherproof type   | 4   | No.  | 16200/-       | 64800/-          |
| iii  |   | 63A TPN Isolator Weatherproof type   | 2   | No.  | 17500/-       | 35000/-          |
| iv   |   | 100A TPN Isolator Weatherproof type  | 4   | No.  | 20600/-       | 82400/-          |
| c)   |   | Supply, installing, testing and commissioning of following sizes of Automatic Transfer Switch (ATS) with manual bypass switch as per specifications and drawings, complete in all respects.  |     |      |               |                  |
| i  |   | 80A ATS 4P MCCB (with Manual Bypass Switch)  | 1   | No.  | 165000/-      | 165000/-         |
| <b>CARRIED TO ELECTRICAL SUMMARY =====&gt;&gt;&gt;</b> |   |  |     |      |               | <b>2448300/-</b> |

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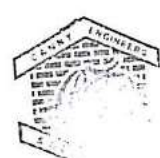

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| GOVT. OF SINDH<br>CSR 2012  |                                 | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.)     |
|---|---------------------------------|--|-----|------|---------------|---------------------|
| S.No.   | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                     |
| 1   | 2                               | 3  | 4   | 5    | 6             | 7=(4x6)             |
| 2   |                                 | <b>LOW VOLTAGE CABLES AND WIRES</b><br>Supply, installation, testing & commissioning of following size of multi core / single core, Cu/PVC, Cu/PVC/PVC, unarmoured, 0.6 kV/1 kV, 450/750V or 300/500V voltage grade copper cable in already laid raceways or trench including all accessories lugs, cable gland etc. as per drawings and specification, complete in all respect. |     |      |               |                     |
| a)  |                                 | <b>4 Core - CU/PVC/PVC Cable (6000/1000V)</b>  |     |      |               |                     |
| i   |                                 | 4 Core - 300 Sq.mm Cu/PVC/PVC Cable  | 40  | Mtr. | 13500/-       | 540000/-            |
| b)  |                                 | <b>4 Core - CU/PVC/PVC Flexible Cable (300/500V)</b>   |     |      |               |                     |
| i   |                                 | 4 Core - 16 Sq.mm Cu/PVC/PVC Flexible Cable  | 10  | Mtr. | 6300/-        | 63000/-             |
| ii  |                                 | 4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable  | 7   | Mtr. | 6400/-        | 29400/-<br>44,800/- |
| c)  |                                 | <b>1 Core - CU/PVC Cable (450/750V) as ECC</b>   |     |      |               |                     |
| i   |                                 | 1 Core - 70 Sq.mm Cu/PVC Cable   | 10  | Mtr. | 2900/-        | 29000/-             |
| ii  |                                 | 1 Core - 25 Sq.mm Cu/PVC Cable   | 205 | Mtr. | 1070/-        | 219350/-            |
| iii   |                                 | 1 Core - 16 Sq.mm Cu/PVC Cable   | 185 | Mtr. | 950/-         | 175750/-            |
| iv  |                                 | 1 Core - 10 Sq.mm Cu/PVC Cable   | 205 | Mtr. | 650/-         | 133250/-            |
| v   |                                 | 1 Core - 6 Sq.mm Cu/PVC Cable  | 145 | Mtr. | 480/-         | 69600/-             |
| vi  |                                 | 1 Core - 4 Sq.mm Cu/PVC Cable  | 20  | Mtr. | 360/-         | 7200/-              |
|    |                                 |  |     |      |               |                     |
| CARRIED TO ELECTRICAL SUMMARY =====>>>  |                                 |  |     |      |               | 1,281,950           |
|   |                                 |  |     |      |               | 1266550/-           |

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1,281,950  
1266550/-

| S.No.                                  | GOVT. OF SINDH<br>CSR 2012      | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---------------------------------|--|-----|------|---------------|-----------------|
|  | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                                      | 2                               | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 3                                      |                                 | <b>CONDUITS &amp; PIPES</b>  |     |      |               |                 |
| a)                                     |                                 | Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor for Power. As per specifications and drawings, complete in all respect.  |     |      |               |                 |
| i                                      |                                 | 32 mm dia PVC  | 25  | Mtr. | 125/-         | 3125/-          |
| ii                                     |                                 | 38 mm dia PVC  | 25  | Mtr. | 180/-         | 4500/-          |
| iii                                    |                                 | 50 mm dia UPVC (Class-D)   | 20  | Mtr. | 560/-         | 11200/-         |
| iv                                     |                                 | 100 mm dia UPVC (Class-D)  | 30  | Mtr. | 750/-         | 22500/-         |
| b)                                     |                                 | Providing and laying of UPVC (Class-D) pipe having dia of following size. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling with clean sand (under and above pipe), compaction, concrete, plugging of pipe ends etc. as shown on drawing complete in all respect. |     |      |               |                 |
| i                                      |                                 | 50 mm dia UPVC (Class-D)   | 10  | Mtr. | 650/-         | 6500/-          |
| ii                                     |                                 | 100 mm dia UPVC (Class-D)  | 50  | Mtr. | 750/-         | 37500/-         |
| c)                                     |                                 | Providing and Construction of Manhole Size 900x900x900 mm deep, 6" thick, concrete 1:2:4 ratio with 600mm round heavy duty cast iron cover, 100% water proof, complete in all respect.   | 2   | No.  | 12500/-       | 25000/-         |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |                                 |  |     |      |               | 110325/-        |

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| S.No.                                  | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---|---|-----|------|---------------|-----------------|
| 1                                      | 2   | 3   | 4   | 5    | 6             | 7 = (4 x 6)     |
| 4                                      |   | <b>WIRING ACCESSORIES</b>   |     |      |               |                 |
| a)                                     |   | Supply, installation, testing & commissioning of following 10/13/15/20A, gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back Boxes with earth terminal, recessed in wall, with all accessories as per specification, complete in all respects. |     |      |               |                 |
| i                                      |   | 10A, One Gang Switch  | 30  | No.  | 380/-         | 11400/-         |
| ii                                     |   | 10A, One Gang Switch (2-Way)  | 15  | No.  | 460/-         | 6900/-          |
| iii                                    |   | 10A, Two Gang Switch  | 16  | No.  | 530/-         | 8480/-          |
| iv                                     |   | 10A, Three Gang Switch  | 47  | No.  | 750/-         | 35250/-         |
| v                                      |   | 10A, Four Gang Switch   | 38  | No.  | 880/-         | 33440/-         |
| vi                                     |   | One Gang Dimmer with 10A Switch   | 8   | No.  | 1650/-        | 13200/-         |
| vii                                    |   | Two Gang Dimmer with 10A Switch   | 65  | No.  | 2550/-        | 165750/-        |
| viii                                   |   | 5A, 3-Pin 1-Gang Switched Socket Outlet   | 3   | No.  | 400/-         | 1200/-          |
| ix                                     |   | 13A, 3-Pin Multi Standard Switched Socket Outlet  | 77  | No.  | 650/-         | 50050/-         |
| x                                      |   | 13A, 3-Pin Multi Standard Switched Socket Outlet (Weather proof)  | 6   | No.  | 890/-         | 5340/-          |
| xi                                     |   | 13A, 3-Pin Multi Standard Switched Socket Outlet (mounted in floor)   | 1   | No.  | 1050/-        | 1050/-          |
| xii                                    |   | 13A, 3-Pin Flat 2-Gang Switched Socket Outlet   | 173 | No.  | 1430/-        | 247390/-        |
| xiii                                   |   | 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet  | 23  | No.  | 550/-         | 12650/-         |
| xiv                                    |   | 10A, One Gang Switch (for Projector)  | 23  | No.  | 650/-         | 14850/-         |
| xv                                     |   | 16A, 3-pin Single Phase Industrial Socket with plug top   | 10  | No.  | 3650/-        | 36500/-         |
| b)                                     |   | Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect.  | 5   | No.  | 6500/-        | 32500/-         |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |   |   |     |      |               | 676050/-        |

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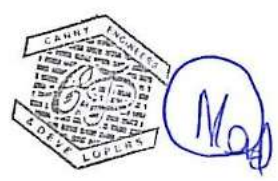
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| GOVT. OF SINDH<br>CSR 2012             |                                 | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---------------------------------|--|-----|------|---------------|-----------------|
| S.No.                                  | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                                      | 2                               | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 5                                      |                                 | <b>LIGHT FIXTURE &amp; FANS</b>  |     |      |               |                 |
| a)                                     |                                 | Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval.<br>Note: Refer light fixtures drawings for complete light fixtures details. |     |      |               |                 |
| i                                      |                                 | Type D1 - Surface Ceiling mounted Down Light Fixture (IP-20) with 20W LED (Minimum 1600 lm Luminous Flux)  | 119 | No.  | 3200/-        | 459200/-        |
| ii                                     |                                 | Type D2 - Recessed Ceiling mounted Down Light Fixture (IP-44) with 7W LED (Minimum 650 lm Luminous Flux)   | 28  | No.  | 2000/-        | 56000/-         |
| iii                                    |                                 | Type D3 - Recessed Ceiling mounted Down Light Fixture (IP-44) with 10W LED (Minimum 1000 lm Luminous Flux)   | 36  | No.  | 2000/-        | 72000/-         |
| iv                                     |                                 | Type D4 - Recessed Ceiling mounted Down Light Fixture (IP-20) with 10W LED (Minimum 1000 lm Luminous Flux)   | 98  | No.  | 2000/-        | 196000/-        |
| v                                      |                                 | Type D5 - Recessed Ceiling mounted Down Light Fixture (IP-44) with 14W LED (Minimum 1400 lm Luminous Flux)   | 77  | No.  | 2000/-        | 154000/-        |
| vi                                     |                                 | Type D6 - Surface Ceiling mounted Down Light Fixture (IP-20) with 28W LED (Minimum 2100 lm Luminous Flux)  | 12  | No.  | 6200/-        | 74400/-         |
| vii                                    |                                 | Type D7 - Surface Ceiling mounted Down Light Fixture (IP-54) with 20W LED (Minimum 1600 lm Luminous Flux)  | 2   | No.  | 6900/-        | 13800/-         |
| viii                                   |                                 | Type F1 - Surface Ceiling / Wall mounted 4' Long Batten Light Fixture (IP-20) with 40W LED (Minimum 3700 lm Luminous Flux)   | 251 | No.  | 1600/-        | 401600/-        |
| ix                                     |                                 | Type F2 - Surface Ceiling mounted 2' Long Batten Light Fixture (IP-20) with 20W LED (Minimum 1900 lm Luminous Flux)  | 8   | No.  | 7800/-        | 62400/-         |
| x                                      |                                 | Type W1 - Wall mounted Light Fixture (IP-54) with 2x5W LED   | 2   | No.  | 8100/-        | 16200/-         |
| xi                                     |                                 | Type W2 - Wall mounted Bulkhead Light Fixture (IP-54) with 10W LED (Minimum 800 lm Luminous Flux)  | 15  | No.  | 8200/-        | 123000/-        |
| xii                                    |                                 | Wall mounted LED Flood Light Fixture (IP-66) with 150W LED   | 12  | No.  | 10000/-       | 120,000/-       |
| b)                                     |                                 | Supply, installation, testing & commissioning of following types of fan including all connecting accessories as per drawings and specifications, complete in all respects.   |     |      |               |                 |
| i                                      |                                 | False Ceiling Decorative Fan (Size 24" x 24") with Remote Control & Sonic Alert.   | 34  | No.  | 12800/-       | 435200/-        |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |                                 |  |     |      |               | 2176000/-       |

| S.No.                                  | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---|--|-----|------|---------------|-----------------|
| 1                                      | 2   | 3  | 4   | 5    | 6             | 7=(4x6)         |
| 6                                      |   | <b>UPS SYSTEM</b>  |     |      |               |                 |
| a)                                     |   | Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 20 kVA Three Phase in, Three Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external Bypass and all accessories as per specification & drawings, complete in all respect. | 1   | No.  | 480000/-      | 480000/-        |
| b)                                     |   | Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 30 kVA Three Phase in, Three Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external Bypass and all accessories as per specification & drawings, complete in all respect. | 1   | No.  | 560000/-      | 560000/-        |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |   |  |     |      |               | 1040000/-       |

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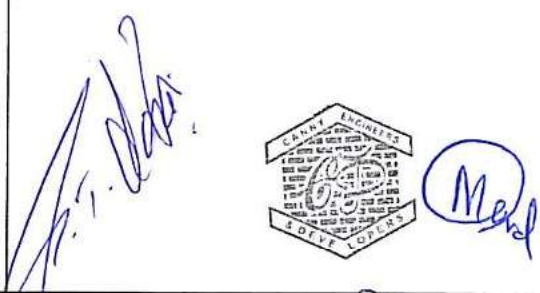
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|---|---|---|-----|------|---------------|-----------------|
| 1   | 2   | 3   | 4   | 5    | 6             | 7 = (4 x 6)     |
| 7   |   | <b>CABLE TRAY &amp; CABLE TRUNKING</b>  |     |      |               |                 |
| a)  |   | Providing, fabricating, erecting, fixing and installing of following size of base perforated Cable Tray, Fabricated with 16 SWG MS Sheet steel Hot dip Galvanized including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of MS Rod / Angle Iron Supports and Rawl Bolts, including cutting, welding, jointing and necessary required hardware etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer.                |     |      |               |                 |
| i   |   | 6" x 4" (150mm x 50mm)  | 20  | Mtr. | 6720/-        | 134400/-        |
| ii  |   | 12" x 4" (300mm x 100mm)  | 22  | Mtr. | 1120/-        | 246400/-        |
| iii   |   | 18" x 4" (450mm x 100mm)  | 80  | Mtr. | 14500/-       | 1160000/-       |
| iv  |   | 24" x 4" (600mm x 100mm)  | 40  | Mtr. | 17200/-       | 688000/-        |
| b)  |   | Providing, fabricating, erecting, fixing and installing of following size of base perforated Cable Tray with Sun cover, Fabricated with 16 SWG MS Sheet steel Hot dip Galvanized including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of MS Rod / Angle Iron Supports and Rawl Bolts, including cutting, welding, jointing and necessary required hardware etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer. |     |      |               |                 |
| i   |   | 12" x 4" (300mm x 100mm)  | 12  | Mtr. | 1120/-        | 134400/-        |
| ii  |   | 18" x 4" (450mm x 100mm)  | 25  | Mtr. | 14500/-       | 362500/-        |
| c)  |   | Providing, fabricating, erecting, fixing and installing of following size of 16 SWG GI Cable Trunking with 18 SWG Cover, including cutting, welding, jointing and necessary required hardware etc., from chamber boxes to energy meters as shown on drawings complete in all respect as per drawing, standard, specifications and direction of the Engineer.  |     |      |               |                 |
| i   |   | 2" x 2" (50mm x 50mm)   | 10  | Mtr. | 500/-         | 5000/-          |
| ii  |   | 3" x 3" (75mm x 75mm)   | 35  | Mtr. | 800/-         | 28000/-         |
|  |   |   |     |      |               | 2,415,480       |
| CARRIED TO ELECTRICAL SUMMARY =====>>>>   |   |   |     |      |               | 2758700         |

| GOVT. OF SINDH<br>CSR 2012             |                                 | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
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| S.No.                                  | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                                      | 2                               | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 8                                      |                                 | <b>DIESEL GENERATOR FOUNDATION / PAD</b>   |     |      |               |                 |
| a)                                     |                                 | Prepare RCC base as foundation / pad for 50 KVA & 125 KVA Diesel Generators (as per recommendation of manufacturer, specification and directed by the engineer and consultant. Pad on standard and approved by Electrical Inspector / Explosives Inspector, complete in all respect. | 2   | Job. | 100000/-      | 200000/-        |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |                                 |  |     |      |               | 200000/-        |

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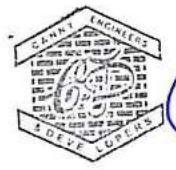
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| GOVT. OF SINDH<br>CSR 2012             |                                 | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---------------------------------|--|-----|------|---------------|-----------------|
| S.No.                                  | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                                      | 2                               | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 8                                      |                                 | <b>DIESEL GENERATOR FOUNDATION / PAD</b>   |     |      |               |                 |
| a)                                     |                                 | Prepare RCC base as foundation / pad for 50 KVA & 125 KVA Diesel Generators (as per recommendation of manufacturer, specification and directed by the engineer and consultant. Pad on standard and approved by Electrical Inspector / Explosives Inspector, complete in all respect. | 2   | Job. | 100000/-      | 200000/-        |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |                                 |  |     |      |               | 200000/-        |

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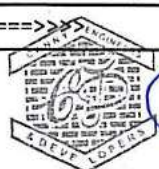
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| GOVT. OF SINDH<br>CSR 2012               |                                 | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---------------------------------|--|-----|------|---------------|-----------------|
| S.No.                                    | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1  | 2                               | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 9  |                                 | <b>LIGHTNING PROTECTION SYSTEM (LPS)</b>   |     |      |               |                 |
| a)                                       |                                 | Supply, installation, testing and commissioning of 27mm x 2mm Tinned Copper Tape to be run on roof and on the elevation of the building as required and shown on drawings including all fixing accessories etc., as per specification, as per site requirement necessary for the functioning of the system and drawing, complete in all respect.   | 75  | Mtr. | 4800/-        | 360000/-        |
| b)                                       |                                 | Supply, installation, testing and commissioning of Early Streamer Emission (ESE) Air Terminal mounted on 2 meter elevation mast, as per drawing, complete in all respect and having following specifications:<br><br>Efficiency: 60 micro seconds<br>Lightning current withstanding test (10/350µs): 100 kA<br><br>ESE Central Rod: Nickel Plated Copper<br>Metal Housing : Stainless Steel 316L<br>Protection Radius : 31 meter at 2 meter height | 1   | No.  | 67500/-       | 67500/-         |
| c)                                       |                                 | Providing and installation of 2 meter high elevation mast consisting side wall mounting bracket for installation and fixing of ESE Air Terminal, as per drawing and specification as per site requirement necessary for the system, complete in all respect.   | 1   | No.  | 24000/-       | 24000/-         |
| d)                                       |                                 | Providing and installation of pyramid holdfasts / studs filled with cement for holding and supporting the flat tape conductor, as per drawing and specification as per site requirement necessary for the system, complete in all respect.   | 6   | Nos. | 6400/-        | 38400/-         |
| e)                                       |                                 | Providing and installation of lightning flash counter as per drawing and specification as per site requirement necessary for the system, complete in all respect.  | 1   | No.  | 105000/-      | 105000/-        |
| f)                                       |                                 | Providing and installation of Earth Electrode Copperbond earth rod 3 meters and clamp, Polypropelene earth pit, as per drawing and specification, complete in all respect.   | 2   | No.  | 29000/-       | 58000/-         |
| g)                                       |                                 | Providing and installation of Test Clamp and Guard Tube 2 m in length, as per drawing and specification, as per specification, as per site requirement necessary for the functioning of the system, complete in all respect.   | 1   | Job. | 20800/-       | 20800/-         |
| h)                                       |                                 | Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable in 32 mm dia uPVC Pipe at ground level connecting Lightning protection pits to power earthing pits, complete in all respect.   | 20  | Mtr. | 2900/-        | 58000/-         |
| CARRIED TO ELECTRICAL SUMMARY =====>>>>> |                                 |  |     |      |               | 1339200/-       |

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| S.No.                                  | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---|--|-----|------|---------------|-----------------|
| 1                                      | 2   | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 10                                     |   | <b>EARTHING SYSTEM</b>   |     |      |               |                 |
| a)                                     |   | Supply, installing, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings and specifications complete in all respect.     |     |      |               |                 |
| i                                      |   | Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .   | 6   | No.  | 24600/-       | 147600/-        |
| b)                                     |   | Supply, installing, testing and commissioning of following items for complete clean earthing system including all connecting accessories as per drawings & specifications complete in all respect. |     |      |               |                 |
| i                                      |   | Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .   | 2   | No.  | 25200/-       | 50400/-         |
| c)                                     |   | Supply, Installation, Testing and Commissioning of Earth Copper Bar (MDB) 300x50x6 mm for earthing system as per drawings and instruction of consultant.   | 2   | No.  | 12000/-       | 24000/-         |
| d)                                     |   | Supply, laying, testing and commissioning of 1x16 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.                  | 45  | Mtr. | 950/-         | 42750/-         |
| e)                                     |   | Supply, laying, testing and commissioning of 1x25 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.                  | 15  | Mtr. | 650/-         | 9750/-          |
| f)                                     |   | Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 32 mm dia uPVC conduit, complete in all respect.                  | 15  | Mtr. | 2900/-        | 43500/-         |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |   |  |     |      |               | 318000/-        |



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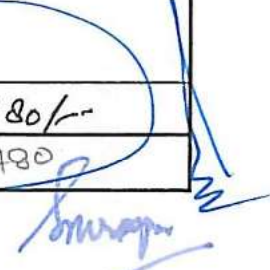
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# **ELV SYSTEM**

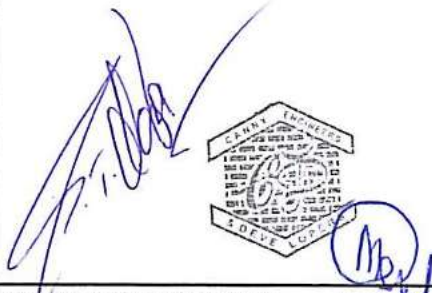
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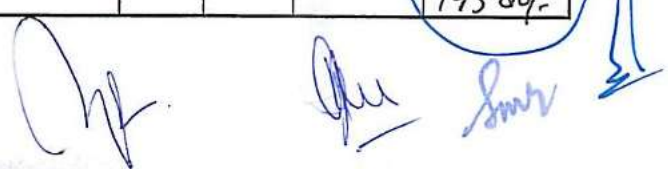
| S. NO.                       | DESCRIPTION  | TOTAL AMOUNT IN PAK RUPEES |
|------------------------------|--|----------------------------|
| <b>A. SCHEDULE ITEMS</b>     |  |                            |
| 1                            | SUB HEAD VI JUNCTION BOX   | 800                        |
|                              | ✓ SUB-TOTAL-A Rs.  | 800                        |
|                              | Add .....% <del>Above/Below</del> At par on Electrical Works of Composite Schedule of Rates 2012, GOVT. OF SINDH | —                          |
|                              | TOTAL-A Rs.  | 800                        |
| <b>B. NON-SCHEDULE ITEMS</b> |  |                            |
| 1                            | CONDUITS & PIPES   | 19580/-                    |
| 2                            | VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only)  | 2496560/-                  |
| 3                            | PUBLIC ADDRESS SYSTEM (Infrastructure wiring/ conducting etc only)   | 364000/-                   |
| 4                            | ADDRESSABLE FIRE ALARM SYSTEM (Infrastructure wiring/ conducting etc only)                                       | 995840/-                   |
| 5                            | CABLE TRAY   | 1800000/-                  |
|                              | SUB-TOTAL-B Rs.  | 5675980/-                  |
|                              | GRAND TOTAL AMOUNT (A+B)   | 5,676,780                  |

| S.No.                                  | GOVT. OF SINDH<br>CSR 2012                      | DESCRIPTION   | QTY | UNIT    | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---|---|-----|---------|---------------|-----------------|
|  | Item #/Page#/<br>Vol.sched ref.                 |   |     |         |               |                 |
| 1                                      | 2   | 3   | 4   | 5       | 6             | 7 = (4 x 6)     |
| <b>PART-A (SCHEDULE ITEMS)</b>         |   |   |     |         |               |                 |
| 1                                      | SUB HEAD VI                                     | <u>SUB HEAD VI JUNCTION BOX</u>   |     |         |               |                 |
| a)                                     | Item # 158(VI)/<br>P-24/ Second<br>Edition-2012 | Providing & fixing junction box as per following<br>specification Size of box 8"x6"x4" MS plate size<br>16 SWG thick Clamp with nuts & bolts Cover plate<br>with screw Painting two coats of rust preventive red<br>oxide & two coats of ICI oil paint as per site<br>requirement & instruction of EI | 1   | Per No. | 800           | 800             |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |   |   |     |         |               | 800             |



| S.No.  | GOVT. OF SINDH<br>CSR 2012      | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---------------------------------|--|-----|------|---------------|-----------------|
|  | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1  | 2                               | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| <b>PART-B (NON-SCHEDULE ITEMS)</b>   |                                 |  |     |      |               |                 |
| 1  |                                 | <b>CONDUITS &amp; PIPES</b>  |     |      |               |                 |
| 1.1  |                                 | Providing and laying of following size UPVC pipe of Class D for Telecommunication Cable (copper / optic fiber). Buried in ground / under roads / under floor as per specification. Including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh soil etc., as shown on the drawing, complete in all respect. |     |      |               |                 |
| i  |                                 | 2" dia UPVC  | 6   | Mtr. | 180/-         | 1080/-          |
| 1.2  |                                 | Providing and Construction of Manhole Size 2' x 2' x 3' mm deep 6" thick concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, complete in all respect. (For Incoming Telecommunication cables ).   | 1   | No.  | 1850/-        | 1850/-          |
| <p style="text-align: center;">  </p> |                                 |  |     |      |               | <p>1950/-</p>   |
| CARRIED TO ELECTRICAL SUMMARY =====>>>>>>  |                                 |  |     |      |               |                 |

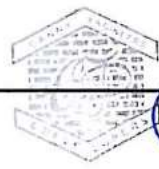


| S.No. | GOVT. OF SINDH<br>CSR 2012      | DESCRIPTION   | QTY  | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|-------|---------------------------------|---|------|------|---------------|-----------------|
|       | Item #/Page#/<br>Vol.sched ref. |   |      |      |               |                 |
| 1     | 2                               | 3   | 4    | 5    | 6             | 7 = (4 x 6)     |
| 2     |                                 | <b>VOICE, DATA COMMUNICATION &amp; CCTV CABLING SYSTEMS (Passive Equipment Only)</b>  |      |      |               |                 |
| 2.1   |                                 | Providing, installation, testing and commissioning of following Data / Voice Cabinets, for patch panel, Fiber panels, adapter, PDU's, Fans and space for active switches as it may require to accommodate complete the entire passive and active network as per the single line diagram drawing and specification, complete in all respect.             |      |      |               |                 |
| i     |                                 | 42U Data Rack in IT Room & Server Room (800mmx1000mm)   | 9    | Nos. | 6800/-        | 61200/-         |
| ii    |                                 | 12U Data Rack in IT Room (600mmx800mm)  | 6    | Nos. | 14000/-       | 84000/-         |
| 2.2   |                                 | Supply, installing, testing and commissioning of Single RJ-45, Cat-6a outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.  | 22   | Nos. | 570/-         | 12540/-         |
| 2.3   |                                 | Providing, fixing, testing and commissioning of 4 Pair RJ-45, Cat-6a Simplex Outlet (for Data) with I/O - Shutter type with 16 SWG back box as per drawing and specification, complete in all respect.  | 166  | Nos. | 4500/-        | 747000/-        |
| 2.4   |                                 | Supply, installing, testing and commissioning of Dual RJ-45, Cat-6a outlet for Data with shutter type and 16 SWG back box including tagging as per drawing and specification, complete in all respect.  | 16   | Nos. | 590/-         | 9440/-          |
| 2.5   |                                 | Supply, installing, testing and commissioning of Single RJ-45, Cat-6a outlet for Camera with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.   | 17   | Nos. | 870/-         | 14790/-         |
| 2.6   |                                 | Supply, installing, testing and commissioning of Single RJ-45, Cat-6a outlet for WIFI with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.   | 3    | Nos. | 870/-         | 2610/-          |
| 2.7   |                                 | Supply, installing, testing and commissioning of Single RJ-45, Cat-6a outlet for Projector with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.  | 20   | Nos. | 870/-         | 17400/-         |
| 2.8   |                                 | Supply, laying, testing and commissioning of CAT 6a - 4 pair cable for Single RJ-45 outlet (Data, Voice, Camera, Wifi, Projector, Biometric Attendance system and Access control system) in 25mm dia PVC conduit concealed/surface from each outlet to IDF racks, including tagging and piping with all necessary accessories, complete in all respect. | 3670 | Mtr. | 30/-          | 110100/-        |

| GOVT. OF SINDH<br>CSR 2012 |                                 | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|----------------------------|---------------------------------|--|-----|------|---------------|-----------------|
| S.No.                      | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                          | 2                               | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 2.9                        |                                 | Supply, laying, testing and commissioning of Cat 5, 25 pair Backbone cable from MTJB to remaining TJB in already laid cable tray including with all the necessary accessories as per drawing and specifications, complete in all respect.  | 30  | Mtr. | 440/-         | 13200/-         |
| 2.10                       |                                 | Supply, laying, testing and commissioning of 8 core multi mode OM3 Fiber optic cable from server room remaining IDF Racks in already laid cable tray including with all necessary accessories, as per drawing and specification, complete in all respect.  | 115 | Mtr. | 400/-         | 46000/-         |
| 2.11                       |                                 | Supply, installing, testing and commissioning of 24 port Cat 6a, RJ 45 UTP Patch Panel fully loaded with tool less jacks and rear cable manager, as per drawing and specification, complete in all respect.  | 14  | Nos. | 33200/-       | 464800/-        |
| 2.12                       |                                 | Supply, installing, testing and commissioning of 24 port Fiber Patch Panel fully loaded with pigtails etc., and rear cable manager, as per drawing and specification, complete in all respect.   | 7   | Nos. | 14400/-       | 100800/-        |
| 2.13                       |                                 | Supply, installing, testing and commissioning of 19" front/rear (as required) cable organizer between patch panels and active equipment to provide patch cable management including with all necessary accessories, as per drawing and specification, complete in all respect.   | 14  | Nos. | 3040/-        | 42560/-         |
| 2.14                       |                                 | Providing, installation, testing and commissioning of CAT-6a UTP (RJ-45 to RJ-45) for the above Patch Panels including with all necessary accessories, as per drawing and specification, complete in all respect.  |     |      |               |                 |
| i                          |                                 | CAT-6a (1m) Long Patch Cord.   | 260 | Nos. | 1120/-        | 291200/-        |
| ii                         |                                 | CAT-6a (2m) Long Patch Cord.   | 260 | Nos. | 1360/-        | 353600/-        |
| 2.15                       |                                 | Supply, installing, testing and commissioning of following blocks in Telephone junction boxes as per drawing and specification, complete in all respect.   |     |      |               |                 |
| i                          |                                 | 10 Pair IDC Block  |     | Nos. | 160/-         | 320/-           |
| ii                         |                                 | 100 Pair IDC Block   |     | Nos. | 4000/-        | 4000400/-       |
| 2.16                       |                                 | Supply, Installing, testing and commissioning of PABX with Analog (4+50) Nos. trunk ports E & M Ports with 50 Analog extensions Ports including auto attendant multiple voice recording, as per specification and drawing, complete in all respect.  | 1   | No.  | 4000/-        | 4000/-          |
| 2.17                       |                                 | Providing, fixing, testing and commissioning of Floor Distribution Box with 1No. RJ-45 Outlet (for Voice) & 1No. RJ-45 Outlet (for Data), 1No.13A, Duplex Switched Socket Outlet and 5A, 1No. Switched Socket Outlet and I/O - Shutter type with 16 SWG back box, as per drawing and specification, complete in all respect. | 5   | Nos. | 10400/-       | 52000/-         |

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| S.No.                                  | GOVT. OF SINDH<br>CSR 2012      | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--|---------------------------------|---|-----|------|---------------|-----------------|
|  | Item #/Page#/<br>Vol.sched ref. |   |     |      |               |                 |
| 1                                      | 2                               | 3   | 4   | 5    | 6             | 7=(4x6)         |
| 2.18                                   |                                 | Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing,as build drawing,Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative. | 1   | Job. | 65000/-       | 65000/-         |
| CARRIED TO ELECTRICAL SUMMARY =====>>> |                                 |   |     |      |               | 2496560/-       |



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| S.No.                                   | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---|---|--|-----|------|---------------|-----------------|
| 1                                       | 2   | 3  | 4   | 5    | 6             | 7 = (4 x 6)     |
| 3<br>3.1                                |   | <p><b>PUBLIC ADDRESS SYSTEM</b></p> <p>Providing, laying, testing and commissioning of Wiring for complete PA System with 2C - 1.5 Sq.mm shielded, twisted pair Fire Resistant Cable in 25 mm dia PVC conduit concealed as per drawing and specification. Complete in all respect.</p> | 560 | Mtr. | 650/-         | 364000/-        |
| CARRIED TO ELECTRICAL SUMMARY =====>>>> |   |  |     |      |               | 364000/-        |

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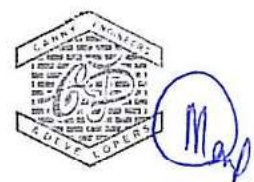
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| S.No.                                   | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---|---|---|-----|------|---------------|-----------------|
| 1                                       | 2   | 3   | 4   | 5    | 6             | 7 = (4 x 6)     |
| 4                                       |   | <b>ADDRESSABLE FIRE ALARM SYSTEM</b>  |     |      |               |                 |
| 4.1                                     |   | Providing, laying, testing and commissioning of Wiring for complete Fire Alarm System with 2C-1.5 Sq.mm shielded, twisted pair Fire Resistant Cable in 25 mm dia PVC conduit concealed, (M.S conduit for surface) etc., including any wiring between fire alarm control panel and other's systems control panel's etc. Complete in all respect. | 778 | Mtr. | 1280/-        | 995840/-        |
| CARRIED TO ELECTRICAL SUMMARY =====>>>> |   |   |     |      |               | 995840/-        |

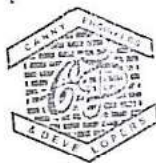
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| S.No.                                   | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|---|---|---|-----|------|---------------|-----------------|
| 1                                       | 2   | 3   | 4   | 5    | 6             | 7 = (4 x 6)     |
| 5                                       |   | <b>CABLE TRAY</b>   |     |      |               |                 |
| 5.1                                     |   | Providing and Installing of following size of base perforated for ELV System, Fabricated with 14/16 SWG MS Sheet steel Hot dip Galvanized including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of M.S Rod / Angle Iron Supports and Rawl Bolts etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer. |     |      |               |                 |
| i                                       |   | 450 x 50mm 14 SWG   | 30  | Mtr. | 22000/-       | 660000/-        |
| ii                                      |   | 300 x 50mm 16 SWG   | 25  | Mtr. | 12000/-       | 300000/-        |
| iii                                     |   | 200 x 50mm 16 SWG   | 40  | Mtr. | 7000/-        | 280000/-        |
| iv                                      |   | 150 x 50mm 16 SWG   | 80  | Mtr. | 7000/-        | 560000/-        |
| CARRIED TO ELECTRICAL SUMMARY =====>>>> |   |   |     |      |               | 1800000/-       |

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# HVAC WORKS

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| S. NO.   | DESCRIPTION  | TOTAL AMOUNT IN PAK RUPEES |
|--|--|----------------------------|
| <b>A. SCHEDULE ITEMS</b>   |  |                            |
| 1  | HVAC-Works   | -                          |
| SUB-TOTAL-A Rs.  |  |                            |
| Add ..... % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH |  |                            |
| TOTAL-A Rs.  |  |                            |
| <b>B. (NON-SCHEDULE ITEMS)</b>   |  |                            |
| 1  | VARIABLE REFRIGERANT FLOW TYPE UNIT (copper piping with insulator & cladding on expose piping) | 200000/-                   |
| 2  | CLOSE CONTROL UNIT   | 1500000/-                  |
| 3  | HVAC FANS  | 230000/-                   |
| 4  | CONDENSATE PIPING  | 235875/-                   |
| 5  | DUCT WORKS & FLEXIBLE CONNECTOR  | 127040/-                   |
| 6  | AIR DEVICES  | 549000/-                   |
| 7  | HANGER & SUPPORTS  | 250000/-                   |
| 8  | CIVIL WORKS  | 250000/-                   |
| 9  | GENERAL MECHANICAL ITEMS   | 450000/-                   |
| SUB-TOTAL-B Rs.  |  | 3791915/-                  |
| GRAND TOTAL CARRIED MASTER SUMMARY (A+B)   |  |                            |

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| S.No.                          | GOVT. OF SINDH<br>CSR 2012      | DESCRIPTION           | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---------------------------------|-----------------------|-----|------|---------------|-----------------|
|                                | Item #/Page#/<br>Vol.sched ref. |                       |     |      |               |                 |
| 1                              | 2                               | 3                     | 4   | 5    | 6             | 7=(4X6)         |
| A                              |                                 | <b>SCHEDULE ITEMS</b> |     |      |               |                 |
| AMOUNT CARRIED TO HVAC SUMMARY |                                 |                       |     |      |               |                 |

| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---|--|-----|------|---------------|-----------------|
| 1                              | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| <b>NON-SCHEDULE ITEMS</b>      |   |  |     |      |               |                 |
| 1                              |   | <b>VARIABLE REFRIGERANT FLOW TYPE UNIT</b><br>Supply, Installation, testing, balancing & commissioning of copper piping with insulation and cladding on expose piping, Cable Tray, Refrigerant Tray, control cable, electric wiring & accessories, and all needed material required for installation and to the satisfaction of Engineer incharge. | 1   | Lot  | 200000/-      | 200000/-        |
| AMOUNT CARRIED TO HVAC SUMMARY |   |  |     |      |               | 200000/-        |

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| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---|---|-----|------|---------------|-----------------|
| 1                              | 2   | 3   | 4   | 5    | 6             | 7=(4X6)         |
| 2                              |   | <p><b>CLOSE CONTROL UNIT</b><br/>Supply, Installation, Testing &amp; Commissioning of Close Control Air-conditioning Units, Floor Standing Top Supply Front Return complete with 3-way modulating Valve, electric heater, air cooled condenser, copper piping, insulation, cladding on expose piping &amp; accessories all sections and components given in the schedule and specifications of close control air-conditioning Units including vibration isolator, including uplifting / lowering, loading / unloading at site, complete in all respect and as directed by the Engineer incharge in following sizes and capacities.<br/>CCU-1 to 3 &amp; ODU-1 to 3 ( Capacity - 60 MBH)</p> | 3   | Nos  | 500000/-      | 1500000/-       |
| AMOUNT CARRIED TO HVAC SUMMARY |   |   |     |      |               | 1500000/-       |

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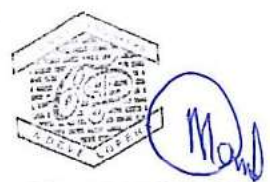
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| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---|---|-----|------|---------------|-----------------|
| 1                              | 2   | 3   | 4   | 5    | 6             | 7=(4X6)         |
| 3                              |   | <b>HVAC FANS</b><br>Supply, installation, testing and commissioning of HVAC fans, as per equipment schedule, as shown on the drawings including all labour, material and accessories, complete in all respect and to the satisfaction of engineer incharge. |     |      |               |                 |
|                                |   | <b>BASEMENT</b>   |     |      |               |                 |
| i                              |   | EF-01 ( 500 cfm)  | 1   | Nos. | 50000/-       | 50000/-         |
|                                |   | <b>GROUND FLOOR</b>   |     |      |               |                 |
| ii                             |   | EF-01 ( 150 cfm)  | 1   | Nos. | 15000/-       | 15000/-         |
| iii                            |   | EF-01A ( 150 cfm)   | 1   | Nos. | 15000/-       | 15000/-         |
|                                |   | <b>SECOND FLOOR</b>   |     |      |               |                 |
| iv                             |   | EF-02 ( 300 cfm)  | 1   | Nos. | 30000/-       | 30000/-         |
|                                |   | <b>THIRD FLOOR</b>  |     |      |               |                 |
| v                              |   | EF-03 ( 300 cfm)  | 1   | Nos. | 30000/-       | 30000/-         |
|                                |   | <b>FOURTH FLOOR</b>   |     |      |               |                 |
| vi                             |   | EF-04 ( 300 cfm)  | 1   | Nos. | 30000/-       | 30000/-         |
|                                |   | <b>FIFTH FLOOR</b>  |     |      |               |                 |
| vii                            |   | EF-05 ( 300 cfm)  | 1   | Nos. | 30000/-       | 30000/-         |
|                                |   | <b>SIXTH FLOOR</b>  |     |      |               |                 |
| viii                           |   | EF-06 ( 300 cfm)  | 1   | Nos. | 30000/-       | 30000/-         |
| AMOUNT CARRIED TO HVAC SUMMARY |   |   |     |      |               | 230000/-        |

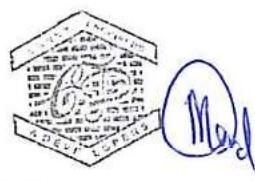
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| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY         | UNIT       | RATE<br>(Rs.) | AMOUNT<br>(Rs.)                         |
|--------------------------------|---|---|-------------|------------|---------------|---|
| 1                              | 2   | 3   | 4           | 5          | 6             | 7=(4X6)                                 |
| 4                              |   | <p><b>CONDENSATE PIPING</b><br/>Providing and fixing, uPVC Class 'E' pipes and fittings as per BS 3505 (EN 1401) for Condenser Water drainage including fittings, bends, cuttings, filling etc. as indicated on drawings, as per specifications and Engineers approval.</p> <p>i 3/4" dia<br/>ii 2" dia</p> | 625<br>1260 | Rft<br>Rft | 75/-<br>156/- | 46875/-<br><del>4685</del><br>189,000/- |
| AMOUNT CARRIED TO HVAC SUMMARY |   |   |             |            |               | 235875/-                                |

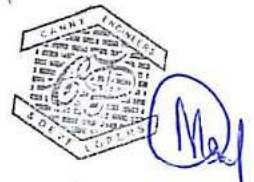
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| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION   | QTY               | UNIT                  | RATE<br>(Rs.)           | AMOUNT<br>(Rs.)             |
|--------------------------------|---|---|-------------------|-----------------------|-------------------------|-----------------------------|
| 1                              | 2   | 3   | 4                 | 5                     | 6                       | 7=(4X6)                     |
| 5<br>5.1<br>i<br>5.2           |   | <p><b>DUCT WORKS &amp; FLEXIBLE CONNECTOR</b></p> <p><b>DUCT WORKS</b><br/>Supply, fabrication, installation, testing and commissioning of Sheet Metal hand made / machine fabricated Duct Work as shown on the drawings and as per technical specification including all labour, material, accessories, tees, plenum, transition pieces, splitter dampers, special duct test holes, duct access doors, air deflector, as where required complete in respect and to the satisfaction of Engineer incharge.<br/>24 - Gauge</p> <p><b>FLEXIBLE DUCT CONNECTOR</b><br/>Supply and installation of rubber impregnated canvas Flexible Duct Connector (imported type) between Fans all other equipment and Duct Work as shown on the drawings including all labour, material, accessories, complete in respect and to the satisfaction of engineer incharge.</p> | 416<br><br><br>10 | Sq.Ft<br><br><br>Nos. | 65/-<br><br><br>10000/- | 27040/-<br><br><br>100000/- |
| AMOUNT CARRIED TO HVAC SUMMARY |   |   |                   |                       |                         | 127040/-                    |

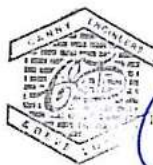
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| S.No.                          | GOVT. OF SINDH<br>CSR 2012      | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---------------------------------|--|-----|------|---------------|-----------------|
|                                | Item #/Page#/<br>Vol.sched ref. |  |     |      |               |                 |
| 1                              | 2                               | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 6                              |                                 | <b>AIR DEVICES</b><br>Supply, installation, Testing & Commissioning of Air Devices included with back opposed blade volume controller with accessible key operator, as shown on the drawings and as specified in technical specifications including balancing of air flow rates, including all labour, material and accessories, complete in all respect and as directed by the Engineer incharge. |     |      |               |                 |
| i                              |                                 | Exhaust Air Diffuser with Damper<br>6" x 6"  | 33  | Nos  | 13000/-       | 429000/-        |
| ii                             |                                 | Exhaust Air Louver<br>24" x 24"  | 6   | Nos  | 20000/-       | 120000/-        |
| AMOUNT CARRIED TO HVAC SUMMARY |                                 |  |     |      |               | 549000/-        |



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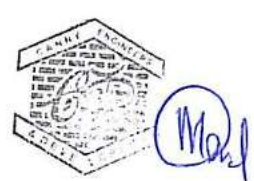
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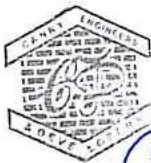
| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---|--|-----|------|---------------|-----------------|
| 1                              | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 7                              |   | <p><b>HANGER &amp; SUPPORTS</b><br/>Supply, installation, testing and commissioning of Galvanized Hanger and Supports for piping, ducting, all HVAC Equipments, as shown on the drawings and as specified in technical specification, complete with angle iron, rawal bolts, threading rods, nuts and bolts, wooden pieces, including the cost of cleaning, painting with corrosion resistant paint, jointing and welding, including all labour, material and accessories, complete in all respect and to the satisfaction of Engineer Incharge.</p> | 1   | Lot  | 250000/-      | 250000/-        |
| AMOUNT CARRIED TO HVAC SUMMARY |   |  |     |      |               | 250000/-        |

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| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---|--|-----|------|---------------|-----------------|
| 1                              | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 8                              |   | <p><b>CIVIL WORKS</b><br/>Making and cutting in walls, slabs and preparation of RCC foundation for Condensing Unit, Fans and all other HVAC equipments in all other work such as Openings, Penetrations, Firestopping, Acoustic Cork sheet, Wooden Frame Sleeves and Pipe Sleeves, plaster finish etc as directed by Engineer Incharge, complete in all respect.</p> | 1   | Job  | 250000/-      | 250000/-        |
| AMOUNT CARRIED TO HVAC SUMMARY |   |  |     |      |               | 250000/-        |



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| S.No.                          | GOVT. OF SINDH<br>CSR 2012<br>Item #/Page#/<br>Vol.sched ref. | DESCRIPTION  | QTY | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---|--|-----|------|---------------|-----------------|
| 1                              | 2   | 3  | 4   | 5    | 6             | 7=(4X6)         |
| 9                              |   | <p><b>GENERAL MECHANICAL ITEMS</b></p> <p><b>i</b> <b>SHOP DRAWINGS &amp; AS BUILT DRAWINGS</b><br/>Providing Shop Drawings and As Built Drawings in A1 size, as advised by the Consultant, complete in all respect.</p> <p><b>ii</b> <b>PAINTING &amp; FINISHES</b><br/>Providing Painting and Finishing,as directed by the Engineer Incharge. complete in all respect.</p> <p><b>iii</b> <b>TEST RUN PERIOD</b><br/>Providing two months Test Run in summer, as advised by the Consultant / client. After satisfactory completion of test run, a certificate will be issued to the Contractor.</p> | 1   | Job  | 100000/-      | 100000/-        |
|                                |   |  | 1   | Job  | 100000/-      | 100000/-        |
|                                |   |  | 1   | Job  | 250000        | 250000/-        |
| AMOUNT CARRIED TO HVAC SUMMARY |   |  |     |      |               | 450000/-        |

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# **EXTERNAL DEVELOPMENT**

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| S.No                           | GOVT.OF SINDH<br>CSR 2012                               | DESCRIPTION   | QTY  | UNIT | RATE<br>(Rs.) | AMOUNT<br>(Rs.) |
|--------------------------------|---|---|------|------|---------------|-----------------|
|                                | Item #/Page#/<br>Vol.sched ref.                         |   |      |      |               |                 |
| <b>PART-A (SCHEDULE ITEMS)</b> |   |   |      |      |               |                 |
|                                |   | <b>LOW HEIGHT BOUNDARY WALL</b>   |      |      |               |                 |
|                                |   | <b>EXCAVATIONS, BACKFILLING AND DEWATERING</b><br>Excavation in foundation & dewatering or bailing or pumping out sub soil water during excavation concreting, cast in situ concrete or masonry work in foundation of building, bridges and other structures including dagbelling dressing refilling around structure with (suitable) excavated earth watering, ramming lead upto 5'-0" ft. Complete and disposal of surplus excavated material to designated area i/c all lead & lift, etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. |      |      |               |                 |
| 1                              | Vol. III, Part-II & III, (General & PHEW)               | <b>a) In Sand, Ashes or Loose Soil</b><br>± 0'-0" ft to -5'-0"ft  | 120  | Cft  | 8.15          | 978.00          |
|                                |   | <b>STONE SOLING</b><br>Providing and laying dry rammed brick or stone ballast / soling 1-1/2" to 2" gauge from approved quarry including hand packing & filling voids with stone material, consolidating & compacting with power or hand roller, etc complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   | 30   | Cft  | 33.28         | 998.40          |
| 2                              | Item # 2 / P-15 / Vol-III, Part-II, (General)           |   |      |      |               |                 |
|                                |   | <b>PCC 1:4:8</b><br>Providing and laying cement concrete plain including placing compacting, finishing, leveling and curing complete (including screening and washing at stone aggregate without shuttering etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   | 90   | Cft  | 112.89        | 10,160.10       |
| 3                              | Item # 5(i) / P-16 / Vol-III, Part-II, (General)        | Below foundation, plinth beam, situ, walls, tanks, over stone soling or where required (Ratio 1:4:8)  |      |      |               |                 |
|                                |   | <b>WOODEN FORMWORKS/SHUTTERING</b><br>Providing, fixing, erection and removal of centering for R.C.C or plain cement concrete works of partial wood (shuttering / formwork) of approved quality in horizontal / vertical surface etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  |      |      |               |                 |
| 4                              | Item # 19b(i+ii/2) / P-18 / Vol-III, Part-II, (General) | Form work for lean 1:4:8 / situ 1:3:6 concrete  | 35   | Sft  | 33.58         | 1,175.30        |
|                                |   | <b>Providing and laying Reinforced cement concrete having 3000 psi cylindrical strength (ready mixed concrete) including all kinds of formwork, hoisting, placing, compacting, finishing, vibrating, curing etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (Excluding the cost of steel reinforcement)</b>   |      |      |               |                 |
| 5                              | Item # 101 / P-112 / Vol-III, Part-II, (General)        | Plinth Beams  | 30   | Cft  | 271.61        | 8,148.30        |
|                                |   | <b>Providing, supplying, cutting, fabrication of Tor / deformed steel reinforcement bar for cement concrete including cutting, bending, laying in position making joints and fastening including cost of binding wire (also includes removal of ) etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>   | 0.29 | Ton  | 100,034       | 29,009.86       |
| 6                              | Item # 8b / P-17 / Vol-III, Part-II, (General)          |   |      |      |               |                 |
|                                |   | <b>BITUMEN COATING</b><br>Providing and applying industrial bitumen paint/coating to plastered or cement concrete surface etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   | 120  | Sft  | 7.78          | 933.60          |
| 7                              | Item # 9 / P-71 / Vol-III, Part-II, (General)           |   |      |      |               |                 |
|                                |   | <b>D.P.C</b><br>Providing and laying DPC damp proof course with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture with leveling, curing, finishing etc complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.   | 15   | Sft  | 39.13         | 586.95          |
| 8                              | Item # 28b / P-19 / Vol-III, Part-II, (General)         |   |      |      |               |                 |

|   |   |   |       |     |        |                |
|---|---|---|-------|-----|--------|----------------|
| 9   | Item # 23 / P-19 / Vol-III, Part-II, (General)    | <b>Block Masonry</b><br>Providing and laying 1:3:6 cement concrete solid block masonry wall above 6" in thickness set in 1:6 cement mortar in ground floor Super Structure including raking out joints & curing etc., complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  |       |     |        |                |
| a)  |   | <b>8" Thick Block Masonry</b><br>i) Block column  | 12    | Cft | 146.21 | 1,754.52       |
| 10  | Item # 24 / P-19 / Vol-III, Part-II, (General)    | Providing and laying 1:3:6 cement concrete solid block masonry wall 6" and below in thickness set in 1:6 cement mortar in ground floor Super Structure including raking out joints & curing etc., complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  |       |     |        |                |
| a)  |   | <b>6" Thick Block Masonry</b><br>i) Ground Floor  | 68    | Cft | 157.71 | 10,724.28      |
| 11  | Item # 11c / P-52 / Vol. III, Part-II, (General)  | <b>PLASTER (EXTERNAL SURFACE)</b><br>Providing and applying (3/4") thick cement plaster to external walls, columns, beams, etc. with cement mortar 1:4 including all corners, recesses, jambs, raking out joints of masonry, scaffolding etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.  |       |     |        |                |
|   |   | i) Ground Floor   | 270   | Sft | 30.16  | 8,143.20       |
| 12  | Item # 38 A / P-56 / Vol. III, Part-II, (General) | Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick/sand paper, filling the voids with chalk/plaster of paris and then painting with weather coat of approved make  |       |     |        |                |
|   |   | 2nd and subsequent coat   | 270   | Sft | 13.28  | 3,585.60       |
|   |   |   | 270   | Sft | 6.20   | 1,674.00       |
| 13  | Item # 72 / P-49 / Vol. III, Part-II, (General)   | <b>CC Pre-Cast Paving</b><br>Providing & fixing cement paving blocks flooring heving size of 197 x 97 x 60 (mm) of city/quaddra/cobble shape with pigmented, having strength b/w 5000 psi to 8500 psi i/c filling the joints with hill sand and laying in specified manner /pattern and design etc. complete in all respects s per standard specification, drawing and entire satisfaction of the Engineer. | 2,400 | Sft | 223.97 | 537,528.00     |
| <b>Total of Schedule Items</b>                                      |   |   |       |     |        | <b>615,400</b> |
| Add ..... % Above / Below / At par on Civil Works of Sindh CSR-2012 |   |   |       |     |        |                |
| <b>Grand Total Carried to Master Summary</b>                        |   |   |       |     |        |                |

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