

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



EA Consulting Pvt Ltd

ARCHITECTURE | ENGINEERING | PROJECT MANAGEMENT

PAKISTAN I UAE I CANADA

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PREAMBLE TO PRICING AND METHOD OF MEASUREMENTS

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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.

<u>Tests Generally, Access to Premises</u>

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.

<u>Shop Drawings, Working Drawings, Operations and Maintenance Instructions.</u>

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 British Standards B.S. Cont'd Continued DEPT, Dept. Department Dia diameter Drawing Drg. Extra Over E.O. F.C. Fiber Cement

GRP Glass Fiber Reinforced Plastics
HDPE High Density Polyethylene

HP Horse Power

ISO International Standards Organization

Kg. Kilograms

Kw/hr Kilowatt per hour L.R.B. Local Regulatory Body

L.S. Lump Sum

M meter

mm millimeter

m3,cu.m. Cubic meter

m2, sq.m. Square meter

MDPE Medium Density Polyethylene

Mic Micron 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 $50 \times 3 = 150$ 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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Development of SMIU Model School and University Academic Block at SMIU City Campus, Karachi (Phase-II, Academic/IT Block). Bill of Quantities GRAND SUMMARY

S.No	DESCRIPTION	AMOUNT (Rs)					
A	PRELIMINARIES & GENERAL REQUIREMENTS	Included in Permanent Works					
В	PERMANENT WORKS						
1	CIVIL WORKS						
2	PLUMBING WORKS						
3	FIRE FIGHTING WORKS						
4	ELECTRICAL WORKS						
5	ELV SYSTEM						
6	HVAC WORK						
7	EXTERNAL DEVELOPMENT WORKS						
	TOTAL COST						

(Amount in words Rs.	n words Rs.		



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7	EXTERNAL DEVELOPMENT WORKS						
	TOTAL COST						

(Amount in words Rs.	n words Rs.		

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

S.No	DESCRIPTION	AMOUNT
Α.	SCHEDULE ITEMS	
1	EARTH WORKS	1,808,936
2	SUB STRUCTURE	16,186,563
3	SUPER STRUCTURE	35,326,537
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
	SUB-TOTAL RS.	61,242,085
	Add	
	TOTAL OF (A) WITH PREMIUM RS.	
B.	(NON-SCHEDULE ITEMS) EARTH WORKS	NOT APPLICABLE
2	SUB STRUCTURE	THOT THE EIGH BEE
3	SUPER STRUCTURE	
4	THERMAL & MOISTURE PROTECTION	
5	MATEL WORK	
6	DOORS AND WINDOWS	
7	FLOOR FINISHES	
8	WALL FINISHES	
9	CEILING FINISHES	
10	EXTERNAL FINISHES TOTAL OF (B) NON-SCHEDULE ITEMS RS.	
	TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A + B)	
	IOIAL AMOUNT CARRIED TO ORANG SUMMART (A ' D)	

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.110	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	UNII	(Rs.)	(Rs.)
		PART-A (SCHEDULE ITEMS)				
1		EARTH WORKS				
1.1	Item # 1/ P-1/ Vol.III, Part-VI, (Public Highway Works)	SITE CLEARING AND GRUBBING 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	0.07	/ 002 OF
	ŕ	EXCAVATIONS, BACKFILLING AND DEWATERING	7,033	311	0.97	6,823.95
1.2	Vol. III,Part-II & III,(General & PHEW)	Excavation in foundation & dewatering or bailing or pumping out sub soil water during excavation concreting, cast in situ concrete or masonary 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.				
		a) In Sand, Ashes or Loose Soil				
	Item # 18(a)+18(i.ii) / P-4+75/	1 01 01 14 1 - 1 1 0114		011	0.15	1.44.005.50
1.3	/ P-4+73/	±0'-0" ft to -5'-0"ft 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) & 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
	Item # 18(b)+18(i.ii)/	b) In Ordinary Soil				
1.4	P-4+75/	±0'-0" ft to -5'-0"ft 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	17,770	Cft	8.61	152,999.70
		structures				
	Item # 18(b)+18(i.ii)	From -5'-0" ft to -8'-0" ft From -8'-0" ft to -11'-0" ft	10,555	Cft	9.16	96,683.80
	& 16/ P-4+74+75	From -11'-0" ft to -14'-0" ft	7,030 860	Cft Cft	9.71 10.26	68,261.30 8,823.60
		SHORING WORKS	000	CII	10.20	0,025.00
1.5	Item # 19/ P-76/ Vol.III, Part-VI, (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/ Vol.III, Part-VI, (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
1.7	Item # 22+13 (b+cii)/P-3 & 4/Vol- III,Part-II, (General)	IMPORTED EARTH-FILLING FROM OUTSIDE SOURCES 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.	2 222	C	,_,	15.577.00
		STONE SOLING Providing and laying dry rammed brick or stone ballast / soling 1-1/2" to 2"	3,280	Cft	4.74	15,547.20
1.8	Item # 2 / P-15 /Vol-III,Part-II, (General)	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
			,,510	5.1	55.25	3 ,,377.20
		Total Amount of Schedule Items Carried to Civil Summary				1,808,936

	GOVT.OF SINDH					
S.No	CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.				(,	()
0		CUP CERLICEURE				
2		SUB-STRUCTURE CONCRETE WORKS				
		Providing and laying cement concrete plain including placing				
0.1	Item # 5(I) / P-16	compacting, finishing, leveling and curing complete (including screening and washing at stone aggregate without shuttering etc. complete in all				
2.1	/Vol-III,Part-II, (General)	respects as per standard specification, drawing and entire satisfaction of				
		the Engineer.				
		Below foundation, plinth beam, situ, walls, tanks, over stone soling or where required (Ratio 1:4:8)	4.635	Ctt	110.00	F02 04F 1F
		Providing and laying cement concrete plain including placing	4,633	Cft	112.89	523,245.15
	Item # 5(h) / P-16	compacting, finishing, leveling and curing (including screening and washing at stone aggregate without shuttering etc. complete in all				
2.2	/Vol-III,Part-II, (General)	respects as per standard specification, drawing and entire satisfaction of				
	(333.3.)	the Engineer.(For Cast in situ concrete or where required.Ratio 1:3:6)	50	Cft	125.95	6,297.50
		WOODEN FORMWORKS/SHUTTERING				
	Item # 19b(i+ii/2) /	Providing, fixing, erection and removal of centering for R.C.C or plain cement concrete works of partal wood (shuttering / formwork) of				
2.3	P-18 /Vol-III,Part-	approved quality in horizontal / vertical surface etc. complete in all				
	II,(General)	respects as per standard specification, drawing and entire satisfaction of the Engineer.				
l i		Form work for lean 1:4:8 / situ 1:3:6 concrete	900	Sft	33.58	30,222.00
		RCC CONCRETE				
		Providing and laying Reinforced cement concrete having 3000 psi cylindrical strength (ready mixed concrete) including all kinds of formwork,				
	Item # 101 / P-112	hoisting, placing, compacting, finishing, vibrating, curing etc. complete in				
2.4	/Vol-III,Part-II, (General)	all respects as per standard specification, drawing and entire satisfaction of the Engineer. (Excluding the cost of steel reinforcement)				
	(,	of the Engineer.(Excloding the cost of steer feithorcement)				
		Sub-Structure Concrete				
i)		Foundations & equipment pad	17 710	C#	271.61	4 910 012 10
ii)		(Raft, isolated, combined & strip etc.) Plinth Beams / Grade beams/tie beams i/c nibs / projections	1 <i>7,7</i> 10 1,075	Cft Cft	271.61	4,810,213.10 291,980.75
iii)		Rcc Retaining WinAB pto plinth Rcc Rampt	-	Cft	288.15	-
iv)		RCC ROMPS Ar	-	Cft	271.61	-
v)		Rcc Steps & Staircase (steps ,landing & waist)	95	Cft	271.61	25,802.95
∨i)		Trenches & Manholes (Fight om & Top Slab) Trenches & Matholes (Walls)	-	Cft	271.61	-
∨ii)		Providing and laying Reinforced cement concrete having 4000 psi	-	Cft	271.61	-
	Item # 102 / P-112	cylindrical strength (ready mixed concrete) including all kinds of formwork, hoisting, placing, compacting, finishing, vibrating, curing etc. complete in				
2.5	/Vol-III,Part-II,	all respects as per standard specification, drawing and entire satisfaction				
	(General)	of the Engineer.(Excluding the cost of steel reinforcement)				
		Sub-Structure Concrete				
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) STEEL REINFORCEMENT (SUB-STRUCTURE)	2,290	Cft	288.15	659,863.50
		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				
0.4	Item # 8b / P-17	includes removal of) etc. complete in all respects as per standard				
2.6	/Vol-III,Part-II, (General)	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).				
			85	Ton	100,034	8,502,890.00
		I .				

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

	GOVT.OF SINDH CSR 2012				RATE	AMOUNT
S.No	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
2.7	Item # 6(bii) / P-16,17 /Vol-III, Part-II,(General)	PRECAST CONCRETE Providing & layingreinforced 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 seperately. 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)	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
	c)	Erecting and fixing in position precast cement concrete or stone slab in roofs or lintels etc. lift upto 20 feet including all charges. BITUMEN COATING	35	Cft	41.77	1,461.95
2.7	Item # 9 / P-71 /VoI-III,Part-II, (General)	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 / Vol-III,Part- II,(General)	TERMITE TREATMENT 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. (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	cu	0.74	50.740.10
		Total Amount of Schedule Items Carried to Civil Summary	5,415	Sft	9.74	52,742.10 16,186,563
2.9	N.S.I	WATER STOPPER BAR (FOR RCC WALL & TANKS WALL) Providing and fixing PVC Centre bubble Type ribbed water stops 300mm wide x 12mm thick including cutting or jointing for retaining wall/UGWTank wall and where required etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. Total Amount of Non-Schedule Items Carried to Civil Summary	185	Rft		

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

	GOVT.OF SINDH CSR 2012	DVT.OF SINDH CSR 2012			DATE	AMOUNT
S.No	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	(Rs.)
	Voi.scried rei.	PART-A (SCHEDULE ITEMS)				
3		SUPER-STRUCTURE				
		RCC CONCRETE				
3.1	/Vol-III,Part-II, (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)				
		Ground Floor				
i)		Beams / Rib beams / Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection	725	Cft	271.61	196,917.2
ii)	Item # 101 / P-112	Slab i/c Rib / Waffle slab & projections	2,940	Cft	271.61	798,533.4
iii)		Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)	350	Cft	271.61	95,063.5
		1 st Floor				
i)	Item # 101 / P-112	Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection	1,445	Cft	271.61	392,476.4
ii)	110111 # 101 / 1-112	Slab i/c Rib / Waffle slab & projections	3,600	Cft	271.61	977,796.0
iii)		Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)	350	Cft	271.61	95,063.5
i)	H # 101 + 10 /	2 nd Floor Beams / Rib beams /Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection	840	Cft	283.71	238,316.4
ii)	Item # 101+12a / P-18+112	Slab i/c Rib / Waffle slab & projections	3,410	Cft	283.71	967,451.
ii)		Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)	350	Cft	283.71	99,298.
i)		3 rd Floor Beams / Rib beams / Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection	835	Cft	291.27	243,210.
ii)	Item #101+12a+12b /P-18+112	Slab i/c Rib / Waffle slab & projections	3,505	Cft	291.27	1,020,901.3
''', iii)	7	Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)	350	Cft	291.27	101,944.5
,	Item #	4 th Floor Beams / Rib beams / Arches/purdi / bracing / lintels / nibs / sills /				
i)	101+12a+12b+12b	coping / bands around opening and projection	835	Cft	298.84	249,531.4
ii)	/P-18+112	Slab i/c Rib / Waffle slab & projections	3,425	Cft	298.84	1,023,527.0
iii)		Stair Case / steps / Rcc seats (Steps, Landing & Waist slab) 5 th Floor Beams / Rib beams / Arches/purdi / bracing / lintels / nibs / sills /	350	Cft	298.84	104,594.0
i)	Item #	coping / bands around opening and projection	835	Cft	306.40	255,844.0
ii)	101+12a+12b+12b+	Slab i/c Rib / Waffle slab & projections	3,425	Cft	306.40	1,049,420.0
, iii)	12b /P-18+112	Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)	350	Cft	306.40	107,240.0
•		6 th Floor				
i)	Item #	Beams / Rib beams / Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection	775	Cft	313.96	243,319.0
ii)	101+12a+12b+12b+ 12b+12b/	Slab i/c Rib / Waffle slab & projections	3,400	Cft	313.96	1,067,464.0
'') iii)	P-18+112	Stair Case / steps / Rcc seats (Steps, Landing & Waist slab)	350	Cft	313.96	109,886.0
,		Roof	330	CII	313.70	107,000.
:1	Item #	Beams / Rib beams / Arches/purdi / bracing / lintels / nibs / sills / coping / bands around opening and projection	105	C#	201 50	40 100 (
i) ii)	101+12a+12b+12b+	Slab i/c Rib / Waffle slab & projections	125 480	Cft Cft	321.52 321.52	40,190.0 154,329.0
''') iii)	12b+12b+12b /P-	OHWTank Top & Bottom slab	380	Cff	321.52	122,177.6
, iv)	18+112	OHWTank Walls	505	Cft	321.52	162,367.6

	GOVT.OF SINDH CSR					
S.No	2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					
		PART-A (SCHEDULE ITEMS)				
3.2	Vol-III, 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)				
i)		Ground Floor Columns	550	Cft	288.15	158,482.50
ii)	Item # 102 / P-112	RCC Shear / Core / Lift / RCC Wall	2,450	Cft	288.15	705,967.50
",		1 st Floor	2,430	Cii	200.13	700,707.30
i)	Item # 102 / P-112	Columns	550	Cft	288.15	158,482.50
ii)	110111 11 102 1 112	RCC Shear / Core / Lift / RCC Wall	1,475	Cft	288.15	425,021.25
.,		2 nd Floor	500	0.51	000.05	15/100.00
i) ii)	Item #102+12a /P-18+112	Columns RCC Shear / Core / Lift / RCC Wall	520 1,480	Cft Cft	300.25 300.25	156,130.00 444,370.00
11)		3 rd Floor	1,400	CII	300.23	444,370.00
i)	Item #101+12a+12b	Columns	520	Cft	307.81	160,061.20
ii)	/P-18+112	RCC Shear / Core / Lift / RCC Wall	1,480	Cft	307.81	455,558.80
		4 th Floor				
i)	Item #101+12a+12b+	Columns	520	Cft	315.37	163,992.40
ii)	12b /P-18+112	RCC Shear / Core / Lift / RCC Wall	1,480	Cft	315.37	466,747.60
		5 th Floor				
i)	Item #101+12a+12b+	Columns	520	Cft	322.93	167,923.60
ii)	12b+12b/P18+112	RCC Shear / Core / Lift / RCC Wall	1,480	Cft	322.93	477,936.40
	ltem	6 th Floor				
i)	#101+12a+12b+ 12b+12b+12b	Columns	520	Cft	330.50	171,860.00
ii)	/P18+112	RCC Shear / Core / Lift / RCC Wall	1,475	Cft	330.50	487,487.50
	ltem	Roof				
i)	#101+12a+12b+ 12b+12b+12b+	Columns	200	Cft	338.06	67,612.00
ii)	12b /P18+112	RCC Shear / Core / Lift / RCC Wall	920	Cft	338.06	311,015.20
3.3	Vol-III,Part-II, (General)	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).				
	Item # 8b / P-17	Ground Floor	28	Ton	100,034	2,800,952.00
	Item # 8b / P-17	1st Floor	28	Ton	100,034	2,800,952.00
	Item # 8b+29 / P-17+19	2nd Floor	25	Ton	103,059	2,576,475.00
	Item # 8b+29x2 / P- 17+19	3rd Floor	26	Ton	106,084	2,758,184.00
	Item # 8b+29x4 / P-17+19	4th Floor	25	Ton	112,134	2,803,350.00
	Item # 8b+29x5 / P-17+19	5th Floor	25	Ton	115,159	2,878,975.00
	Item # 8b+29x6 / P-17+19	6th Floor	22	Ton	118,184	2,600,048.00
	Item # 8b+29x7 / P-17+19	Roof	10	Ton	121,209	1,212,090.00

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

	GOVT.OF SINDH CSR 2012 RATE					AMOUNT
S.No	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
	voi.scried rei.	PART-A (SCHEDULE ITEMS)				
		STEEL STRUCTURE WORKS				
3.4	Item # 2 / P-91/Vol- III,Part-II,(General)	Providing, supplying, cutting, fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, corrugated sheet, girders, tands including cutting, tanks etc. including cutting, drilling riveting, handling assembling and fixed but excluding erection in position (contractor to submit the shapeling wings for approval prior to execution of work) etc. complete in 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 drawing for approval prior to execution of work) etc. complete in all pespects 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)	PAINT ON STEEL STRUCTURE WORKS 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 Engytel paint of equivalent approved quality and shade including public preparation, primer coat, filling, cutting etc. complete in bit respects as per standard specification, drawing and entire satisfaction of the Engineer.				
		Priming coat	-	Sft	5.22	-
		Each subsequent coat of paint (1st coat to 3rd coat) Total Amount of Schodula Itoms Carried to Civil Summary	-	Sft	11.23	25 204 527
		Total Amount of Schedule Items Carried to Civil Summary PART-B (NON-SCHEDULE ITEMS)				35,326,537
3.8	N.S.I	WATER STOPPER BAR (FOR RCC WALL & TANKS WALL) 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 requiredetc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.	85	Rft		
		Total Amount of Non-Schedule Items Carried to Civil Summary				

C No.	GOVT.OF SINDH CSR 2012	DESCRIPTION	OTV	HAUT	RATE	AMOUNT
S.No	Item #/Page#/	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
1	Vol.sched ref. 2	3	5	6	7	8=5x7
4		PART-A (SCHEDULE ITEMS) Masonry Works				
4		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.				
4.1	Item # 28b / P-19 / Vol-III,Part- II,(General)	(D.P.C) DAMP PROOF COURSE 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	ltem # 23 / P-19 /Vol- III,Part-II, (General)	Block Masonry 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.	255	9.1	37.10	<i>G,,,,,</i> ,,
		8" Thick Block Masonry				
	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	144,812.8
4.2	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)		6" Thick Block Masonry				
	Item # 24 / P-19	i) Ground Floor	840	Cft	157.71	132,476.4
	Item # 24+30 / P-19	ii) First Floor	800	Cft	159.35	127,480.0
	Item # 24+30 / P-19	iii) Second Floor	1,390	Cft	163.16	226,792.4
	Item # 24+30 / P-19	iv) Third Floor	1,750	Cft	169.11	295,942.5
	Item # 24+30 / P-19	v) Fourth Floor	1,500	Cft	178.81	268,215.0
	Item # 24+30 / P-19	vi) Fifth Floor	1,500	Cft	188.51	282,765.0
	Item # 24+30 / P-19	vii) Sixth Floor	1,500	Cft	198.21	297,315.0
	Item # 24+30 / P-19	viii) Roof	275	Cft	207.91	57,175.2
ы		A" Thick Diock Masons				
b)	Item # 24 / P-19	4" Thick Block Masonry	<i>1</i> E	Ct+	157 71	7.00/.0
	,	i) Ground Floor	45	Cft Cft	157.71	7,096.9
	Item # 24+30 / P-19	ii) First Floor	-	Cft Cft	158.81	1/0407
	Item # 24+30 / P-19	iii) Second Floor	105	Cft	161.34	16,940.7
	Item # 24+30 / P-19	iv) Third Floor	105	Cft	165.30	17,356.5
	Item # 24+30 / P-19	v) Fourth Floor	105	Cft	171.76	18,034.8
	Item # 24+30 / P-19 Item # 24+30 / P-19	vi) Fifth Floor vii) Sixth Floor	105 105	Cft Cft	178.22 184.68	18,713.1 19,391.4
		Total Amount Carried to Summary				3,635,02

		Bill of Quantities				
S.No	GOVT.OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref.	3	5	6	7	8=5x7
5		THERMAL & MOISTURE PROTECTION 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.		0		6-54
		NOT APPLICABLE				
		Total Amount Carried to Summary				

S NI.	GOVT.OF SINDH CSR 2012	DESCRIPTION	OTV	LINUT	RATE	AMOUNT
S.No	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
6	2	METAL WORKS 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.	5	6	7	8=5x7
6.1	Item # 5d/ P-70 / Vol.III,Part II, (Chapter -7)	Door Frame Paint 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

		Bill of Quantities				
S.No	GOVT.OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref.	3	5	6	7	8=5x7
7	-	WOOD WORKS 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.	3	Ü		G-3AV
		NOT APPLICABLE				
		Total Amount Carried to Summary				

	GOVT.OF SINDH CSR	1 CSR				
.No	2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref.	3	5	6	7	8=5x7
8	-	FLOOR FINISHES 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.	Š	Š		0-527
3.1	Item # 16C+75 / P- 42,50/Vol. III,Part-II, (General)	P.C.C FLOOR 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	7,246.8
		ii) First Floor	3,450	Sft	43.92	151,524.0
		iii) Second Floor	-	Sft		
		iv) Third Floor	500	Sft	43.92	21,960.
		v) Fourth Floor	-	Sft		
		vi) Fifth Floor	-	Sft		
		vii) Sixth Floor	-	Sft		
		viii) Roof	-	Sft		
		Total Amount Carried to Summary				180,7

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.NO	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	UNII	(Rs.)	(Rs.)
9	2	WALL FINISHES 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.	5	6	7	8=5x7
9.1	Item # 11b / P-52 / Vol. III,Part-	PLASTER (INTERNAL WALL SURFACE) 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	i) Ground Floor	8,330	Sft	22.84	190,257.20
	Item # 11b+29 / P-52 & 54	ii) First Floor	9,250	Sft	24.25	224,312.50
	Item # 11b+29 / P-52 & 54	iii) Second Floor	12,400	Sft	25.66	318,184.00
	Item # 11b+29 / P-52 & 54	iv) Third Floor	13,165	Sft	27.07	356,376.55
	Item # 11b+29 / P-52 & 54	v) Fourth Floor	11,785	Sft	28.48	335,636.80
	Item # 11b+29 / P-52 & 54	vi) Fifth Floor	11,785	Sft	29.89	352,253.65
	Item # 11b+29 / P-52 & 54	vii) Sixth Floor	11,785	Sft	31.30	368,870.50
	Item # 11b+29 / P-52 & 54	viii) Roof	1,890	Sft	32.71	61,821.90
		Total Amount Carried to Summary				2,207,713

	GOVT.OF SINDH CSR 2012				RATE	AMOUNT
S.No	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
1	2	CEILING FINISHES 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.	5	6	7	8=5x7
10.1	Item # 13b / P-52 /	PLASTER (INTERNAL CEILING SURFACE) 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	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	Item # 23+24c / P- 54/ Vol.III.Part II.	PAINT (INTERNAL CEILING SURFACE) 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	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
		Total Amount Carried to Summary				1,095,967

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/ Vol.sched ref.			-	(Rs.)	(Rs.)
11	2	EXTERNAL FINISHES 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.	5	6	7	8=5x7
11.1	Item # 11c / P-52 / Vol. III,Part- II,(General)	PLASTER (EXTERNAL SURFACE) 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		20.14	507.000.00
11.2	Item # 34/ P-55 / Vol. 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	17,500	Sft	30.16	527,800.00
		any height any Floor)	10,560	Rft	7.71	81,417.60
11.3	Item # 13b / P-52 / Vol. III,Part- 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 2012	DESCRIPTION	QTY	UNIT	RATE (Ps.)	AMOUNT (Rs.)
	Item #/Page#/ Vol.sched ref.				(Rs.)	(Rs.)
1	2	3	5	6	7	8=5x7
4		PART-B (NON SCHEDULE ITEMS) THERMAL & MOISTURE PROTECTION				
4.1		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. Providing & 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.				
		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 & specification and to the entire satisfaction of the Engineer.	4,660	Sft		
		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 & vertical) complete as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.				
			4,660	Sft		
		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.				
			4,660	Sft		
		iv) Providing & laying 34mm thick Heat & Cold Insulation tile by National Tile or approved equivalent, approved pattern & 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.				
			4,660	Sft		
		Total Amount Carried to Summary				

S.No	GOVT.OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					` '
1 5	2	METAL WORK	5	6	7	8=5x7
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. 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		
		ii) Ground Floor	30	Rft		
		iii) First Floor	30	Rft		
		iv) Second Floor	30	Rft		
		v) Third Floor	30	Rft		
		vi) Fourth Floor	30	Rft		
		vii) Fifth Floor	30	Rft		
		viii) Sixth Floor	30	Rft		
		ix) Roof	30	Rft		
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		
		ii) First Floor	60	Rft		
		iii) Second Floor	60	Rft		
		iv) Third Floor	60	Rft		
		v) Fourth Floor	60	Rft		
		vi) Fifth Floor	60	Rft		
		vii) Sixth Floor	60	Rft		
5.3		viii) Roof MS DOOR FRAME 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)		Rft		
5.4		Monkey Ladder 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 fre	1,365	Rft		
		job as shown in drawing (at any height in any floor) etc., compete in the respects as per drawing, standard, specifications & dreation of the Engineer.	ر	Kg		

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.110	Item #/Page#/ Vol.sched ref.	BESCHI HON	Q.I.I	OIIII	(Rs.)	(Rs.)
1	2	3	5	6	7	8=5x7
5.5		Aluminum Windows & Ventiator Providing, fabricating and fixing imported natural / color anodized premium quality aluminum beading section for fixed / openable and slicting 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 whether 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) Note: Minimum wall thickness for all sections shall be 2mm and width will be 100mm wide to be made according to the design.				
		GW-01 W-01 W-02 W-03 W-04 W-05 V-01 V-02 V-03 V-04	315 1,540 675 385 496 300 45 100 50	Sff Sff Sff Sff Sff Sff Sff Sff		
5.6		Providing fabricating and fixing of 25mm dia SS pipe rungs (304 grade) in UG & 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.				
5.7		Providing, fabricating and fixing Aluminum fixed glass partition comprising of colored anodized premium quality aluminum sections in top, bottom, horizontal & 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 & required Hardware etc, PVC glazing bead and whether 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. Note: Minimum wall thickness for all sections shall be 2mm and width will be 100mm wide to be made according to the design.	60	Rft		
5.8		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 & 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)	1,520	Sft		
			490	Sff		
	I					

	GOVT.OF SINDH CSR 2012				RATE	AMOUNT
S.No	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
1	2	3	5	6	7	8=5x7
6		DOORS, WINDOW & VENTILATORS				
		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		Door Shutter 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		
		b) Double Leaf	1,030	Sft		
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		
6.3		IRON MONGRY				
	i)	Ball Bearing Hinges 125mmx3mm, Stainless Steel (BON-91)	396	Nos.		
	ii) iii)	Tower bolts (DTB-12) 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.		
			75	Nos.		
	iv)	Knob Profile Cylinder, one side key, one side knob, L-60mm, SN Finish	75	Nos.		
	v)	Overhead Hydraulic Door Closer, Max.50 Kg. Door Weight, Silver Finish	32	Nos.		
	,	Magnetic Wall & Floor Door Stop, SS Finish (BOZ-23)	38	Nos.		
	,	SS push plates 100 x 300mm	21	Nos.		
	∨iii)	SS kick plates 1500 x 150mm	21	Nos.		
6.4		CABINET (WALL MOUNTED) 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		

S.No	GOVT.OF SINDH CSR					
3.140	2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref. 2	3	5	6	7	8=5x7
6.5		CABINET (FLOOR MOUNTED) 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)				
6.6		i) Ground Floor 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.	25	Sff		
		a) Single Leaf	195	Sft		
		b) Double Leaf	240	Sft		
		Total Amount Carried to Summary				

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/ Vol.sched ref.		-		(Rs.)	(Rs.)
1	2	3	5	6	7	8=5x7
7		FLOOR FINISHES 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.				
.1		Providing & 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.				
		i) Basement	35	Cft		
		ii) Ground Floor	675	Cft		
		iii) First Floor	75	Cft		
		iv) Second Floor	680	Cft		
		v) Third Floor	690	Cft		
		vi) Fourth Floor	730	Cft		
		vii) Fifth Floor	730	Cft		
		viii) Sixth Floor	730	Cft		
		ix) Roof	40	Cft		
7.2		Providing & laying full body Porcelain Tile (Matt finish) on floor comprising of 12" x 24" x 3/8" & 24" x 24" x 1/2" thick Porcelain tiles of approved make & color as per floor pattern with or without spacers shown in drawing including setting the tiles with dry bond sulry, 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. (Note: Cost of base mortar/levelling screed will be paid separate item) Base rate only for Porcelain Tile: 1350/Sq.m				
		i) Ground Floor	345	Sft		
		ii) First Floor	-	Sft		
		iii) Second Floor	285	Sft		
		iv) Third Floor	285	Sft		
		v) Fourth Floor	290	Sft		
		vi) Fifth Floor	290	Sft		
		vii) Sixth Floor	290	Sft		
		viii) Roof	-	Sft		
7.3		Providing and laying Pre-Polished Marble Tile on floor 18" x 18" x 3/4" of approved make & 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. (Note: Cost of base mortar/levelling screed will be paid separate item) Base Rate only for Marble Tile: 80/Sft				
		i) Ground Floor	4,245	Sft		
		ii) First Floor	485	Sft		
		iii) Second Floor	4,350	Sft		
		iv) Third Floor	3,640	Sft		
		v) Fourth Floor	4,670	Sft		
		vi) Fifth Floor	4,670	Sft		
		vii) Sixth Floor	4,670	Sft		
		viii) Roof	270	Sft		

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/ Vol.sched ref.				(Rs.)	(Rs.)
1	2	3	5	6	7	8=5x7
7.4		Marble Counter Top Providing, laying and fixing Per-Polished Marble Counter Top 24" wide and 3/4" thick as per drawing, activities include provide & 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. Base Rate of only Marble counter top: 150/ Sft				
		i) Ground Floor	20	Sft		
7.5		Providing, laying and fixing Synthetic Carpet tiles over c.c floor of approved size, color, make & 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.				
			3,585	Sft		
7.6		Providing, laying and fixing 125 x 255 x 20mm Industrial Tile by National Tiles (split clay tile) or equivalent, of approved design, size, pattern & color as per the finishing schedule, including fixing with Dry Bond, chipping, cutting, jointing and grouting material of approved quality & using plastic spacers (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.				
		i) Basement	245	Sft		
7.7		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 & color as per the finishing schedule (overall thickness & 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. Contractor shall submit the Shop drawing (without any additional cost) before start of work.				
			555	Sft		
		Total Amount Carried to Summary				

	GOVT.OF SINDH CSR					
S.No	2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref. 2	3	5	6	7	8=5x7
8		WALL FINISHES		·		
		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.				
		PORCELAIN SKIRTING				
8.1		Providing and fixing Porcelain tiles Skirting 4" high of approved make & colors over plastered surface including jointing with dry boand, grouting with approved material, curing, cutting etc. complete in all respects as per specifications, drawings and instructions of the Engineer.				
		Base rate: 1350 Sq.m	160	Sft		
		PORCELAIN DADO				
8.2		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. Base rate only for Porcelain tiles: Rs.1350/ Sq.m				
		i) Crowned Floor	1.050	Ctr		
		i) Ground Floor ii) First Floor	1,059	Sft Sft		
		·				-
		iii) Second Floor iv) Third Floor	830 830	Sft Sft		
		v) Fourth Floor	830	Sft		
		vi) Fifth Floor	830	Sft		
		vii) Sixth Floor	830	Sft		
		vii) 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 he Engineer. Base rate for Marble Tile: 40/ Sft				
		i) Ground Floor	350	Sft		
		ii) First Floor	120	Sft		
		iii) Second Floor	300	Sft		
		iv) Third Floor	330	Sft		
		v) Fourth Floor	290	Sft		
		vi) Fifth Floor	290	Sft		
		vii) Sixth Floor	290	Sft		
		vii) Roof	55	Sft		
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 he Engineer.	33	311		
			30	Sft		
8.5		PAINT (INTERNAL WALL SURFACE) 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		
		ii) First Floor	9,250	Sft		
		iii) Second Floor	12,400	Sft		
		iv) Third Floor	13,165	Sft		
		v) Fourth Floor	11,785	Sft		
		vi) Fifth Floor	11,785	Sft		
		vii) Sixth Floor	11,785	Sft		
		viii) Roof	1,890	Sft		

	GOVT.OF SINDH CSR				DATE	AAAOUNT
S.No	2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref.	3	5	6	7	8=5x7
8.6	2	Providing and laying Pre-Polished Marble Tiles/Slab one piece of approved make, colors & 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.	3	•		8=3X/
		The Instructions of the Engineer.				
		a) For tread 1" (25mm) thick				
		i) Ground Floor	195	Sft		
		ii) First Floor	195	Sft		
		iii) Second Floor iv) Third Floor	195 195	Sft Sft		
			195	Sft		
		v) Fourth Floor vi) Fifth Floor	195	Sft		
		vii) Sixth Floor	195	Sft		
		Vilj Sixiffficor	173	311		
		b) For riser 1/2" (10mm) thick				
		i) Ground Floor	105	Sft		
		ii) First Floor	105	Sft		
		iii) Second Floor	105	Sft		
		iv) Third Floor	105	Sft		
		v) Fourth Floor	105	Sft		
		vi) Fifth Floor	105	Sft		
		vii) Sixth Floor	105	Sft		
8.7		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 & OHW Tanks at any height & level, using chamfered edges, rounding off corner etc. including scaffolding complete in all respects as per drawing, standard, specifications and direction of the Engineer.	3,280	Sft		
8.8		Providing, making and fixing Wooden Partition wall 3" thick comprising of 8 mm thick MDF on either side over partal 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.				
		of Engineer.	4,030	Sft		
	l	Total Amount Carried to Summary				

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/ Vol.sched ref.	Jacon Herv	٠	0	(Rs.)	(Rs.)
1	2	3	5	6	7	8=5x7
9		CEILING FINISHES 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.				
.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		
		ii) First Floor	-	Sft		
		iii) Second Floor	290	Sft		
		iv) Third Floor	290	Sft		
		v) Fourth Floor	290	Sft		
		vi) Fifth Floor	290	Sft		
				-		
		vii) Sixth Floor	290	Sft		
.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		
		ii) First Floor	370	Sft		
		iii) Second Floor	240	Sft		
		1				
		iv) Third Floor	245	Sft		
		v) Fourth Floor	240	Sft		
		vi) Fifth Floor	240	Sft		
		vii) Sixth Floor	240	Sft		
2.3		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		
			·			

	Bill of Quantines							
S.No	GOVT.OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)		
1	Vol.sched ref.	3	5	6	7	8=5x7		
9.4		Providing, fabricating and installing MDF sheet bulkhead ceiling comprising of 1/2" thick MDF board, partal wood framing system, required Hardware and jointing tap etc, all cutting for light fixers & other design feature with providing & applying three coat of matt enamel paint of approved make & 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) i) Ground Floor	285	Sft				
		ii) First Floor	665	Sft				
		iii) Second Floor	710	Sft				
		iv) Third Floor	785	Sft				
		v) Fourth Floor	900	Sft				
		vi) Fifth Floor	900	Sft				
		vii) Sixth Floor	900	Sft				
		Total Amount Carried to Summary						

S.No	GOVT.OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
oto	Item #/Page#/ Vol.sched ref.	. J. 2.50 (M. 110 N	α	5.41	(Rs.)	(Rs.)
10	2	External Finishes 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.	5	6	7	8=5x7
10.1		COMB PLASTER 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		
10.2		Providing & applying pure acrylic water based, durable moderate texture that gives a traditional look with crack bridging of 0.6mm, breathable, anticarbonation 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 etcomplete in all respects as per drawings, specifications and the satisfaction of he Engineer.				
10.3		Providing and fixing approved Stone (Gadap / Gizri) clading 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 he Engineer.	28,720	Sft		
		a) 4" x 2"	3,160	Rft		
		b) 2" x 2"	3,160	Rft		
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 he Engineer.	1,435	Rft		
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			
			70	Sft		
		Total Amount Carried to Summary				



S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A.	SCHEDULE ITEMS	
1	Plumbing Fixtures	763,328
	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.	
В.	NON-SCHEDULE ITEMS	
1	Plumbing Fixtures	
2	Cold and Hot Water Supply Piping	
3	Isolation Valves	
4	Plumbing Specialties	
5	Packaged Pump Sets	
6	Water Tank Connection	
7	Water Cooler & Water Filter	
8	Soil, Waste,RW and Vent Pipes	
9	Drainage Specialties	
10	Manholes and Gully traps	
11	External Connection	
	SUB-TOTAL-B Rs.	
	GRAND TOTAL AMOUNT (A+B)	

S.No.						44400017
	CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref. 2	3	4	5	6	7=(4X6)
A.		(SCHEDULE ITEMS)				
1	Chapter #1, Item #2 (A),Page #1	Providing & fixing squating 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 Equivalant).				
	(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, Item #5, Page #2	Providing & fixing European white glazed earthen ware wash down w.c pan complete with and I/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, Item #10, Page #3	Providing and fixing 24" x 18" lavatory basin in white glazed earthen ware complete with & I/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, malloable 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		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, Item #19, Page #6	Providing & Fixing steel sinks satinless local make complete with cast iron or wraught 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, Item #1, Page #7	Providing & Fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long c.p brass screws.				
6	Item #2, Page #7	Towel rail 36" long 3/4" dia round or square (Superior quality) Providing & fixing c.p brass toilet paper holder of standard size with chrome plated brass brackets complete (similar to twytords design No.1108)	34	Nos	1,412.95	48,040.30
7	b Chapter #2, Item #3, Page #7	Superior Quality Providing & Fixing 24" x 18" bavelled edge mirrior of begium glass complete with 1/8" thick hard board and c.p screws fixed to wooden pleat.	34	Nos	1,071.40	36,427.60
	b	Superior Quality Supplying & Fixing soap tray earthen ware with c.p screws	34	Nos	2,376.00	80,784.00
8		etc. complete.	34	Nos	497.20	16,904.80
		AMOUNT CARRIED TO SUMMARY		I		763,328

		Bill of Quantities	1			
	GOVT. OF SINDH					****
S.No.	CSR 2012	DESCRIPTION	QTY	UNIT	RATE (Pa.)	AMOUNT
	Item #/Page#/				(Rs.)	(Rs.)
1	Vol.sched ref.			-	,	7-(4)()
1	2	3	4	5	6	7=(4X6)
В.		(NON-SCHEDULE ITEMS)				
1		PLUMBING FIXTURES:				
ii		Providing and fixing bath toilet accessories as under:				
		Hand Spray / Muslim shower	34	Nos		
			34	Nos		
		WC Cleaning Brush	34	1403		
<u> </u>						
		AMOUNT CARRIED TO SUMMARY				

		Bill of Quantities				
S.No.	GOVT. OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					
1	2	3	4	5	6	7=(4X6)
		WATER SUPPLY:				
2		Cold and Hot Water Supply Piping 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		
ii		1" dia	50	Rft		
iii		1 1/4" dia	400	Rft		
iv		1 1/2" dia 2" dia	110 410	Rft Rft		
v vi		2 1/2" dia	100	Rff Rff		
vii		3" dia	0	Rft		
viii		4" dia	0	Rft		
		AMOUNT CARRIED TO SHAAAA BY				
		AMOUNT CARRIED TO SUMMARY				

		Bill of Quantities				
	GOVT. OF SINDH					
S.No.	CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/				(Rs.)	(Rs.)
1	Vol.sched ref.	3	4	5	6	7=(4X6)
	2					7-(47.0)
3		Isolation Valves				
		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		
ii 		1" dia	0	Nos		
iii		1 1/4" dia 1 1/2" dia	1	Nos		
iv		2" dia	0 11	Nos Nos		
v vi		2 1/2" dia	0	Nos		
vii		3" dia	0	Nos		
viii		4" dia	0	Nos		
		·	•			
4		Non Return Valves				
		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.				
		specifications and as per Engineers approval.				
i		1 1/2" dia	0	Nos		
ii		2" dia	2	Nos		
iii		3" dia	0	Nos		
				l		
		AMOUNT CARRIED TO SUMMARY				

S.No. CS 2012 Imm #/Fogge#/ Vols.ned ref. Plumbing Specialities Supply and installation of the following including all filtings. Rivings. occessories, etc., as indicated on the drawing, as per specifications and fingeness approval. 1 1/2 dis. (8h lt op 11 / 2 dis. (8h lt op 12 / 1 / 2 dis. (8h lt op 12 / 1 / 2 dis. (8h lt op 13 / 2 dis fort valve 14 / 2 / 1 / 3 / 3 dis fort valve 15 / 2 / 1 / 4 / 8 relia / Valve 16 / 2 / 1 / 4 / 8 relia / 4 / 8 / 8 / 7 - (4X6) 1			Bill of Quantities				
Them #/Page#/ Volsched ref. 3 4 5 Plumbing Specialties Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval. i 1/27 dia, Bit Tag ii 1/4 Ar Bellet Valve 2 dia foot valve 2 nos. 27 Hexible Connection 4 Nos. 27 Flexible Connection 4 Nos.							
Volushed ref. 2 3 4 5 Plumbing Specialities Supply and installation of the following including all filtings, fibrings, accessaries, etc., as indicated on the drawing, as per specifications and Engineers approval. i) // 2 clid. bis lap ii) // 2 clid bor valve iii) // 2 clid not valve 2 clid not valve 2 T-type Strainer 2 T-type Strainer 2 Flexible Connection 4 Not.	S.No.		DESCRIPTION	QTY	UNIT		
Plumbing Specialities Supply and installation of the following including all fittings, fittings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval. I I/2" clia. Bib Top I"Air Railed Valva I"Air Rai						(1.0.)	(1.0.)
a Supply and installation of the following including all fittings. Rivings, accessions, etc., so indicated on the drawing, as per Specifications and Engineers approval. i 1/2" dia, Bis Tap 1/4" Air Relief Yalve 1 Nos. ii 2" dia foot valve 2 Nos. 2" Hexibite Connection 4 Nos.	1	2	3	4	5	6	7=(4X6)
a Supply and installation of the following including all fittings. Rivings, accessions, etc., so indicated on the drawing, as per Specifications and Engineers approval. i 1/2" dia, Bis Tap 1/4" Air Relief Yalve 1 Nos. ii 2" dia foot valve 2 Nos. 2" Hexibite Connection 4 Nos.							
likings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval. i 1/2" dia, Bib Tap 1 Nos. 1 Nos. 1 Nos. 2 Nos. 1 Nos. 2 Nos. 1 Nos. 2 Nos. 1 No							
Specifications and Engineers approval. 1	а						
iii 2 da fout valve 1 Nos. 1 Nos. 2 Nos. 2 Y-type Strainer 2 Nos. 2 Y-type Strainer 2 Nos. 2 Flexible Connection 4 Nos. 1 Nos. 2 Nos. 1 Nos. 2 Nos. 1 Nos. 2 Nos. 1 Nos. 1 Nos. 1 Nos. 2 Nos. 1 Nos. 2 Nos. 1 Nos. 1 Nos. 1 Nos. 1 Nos. 2 Nos. 1 Nos. 1 Nos. 2 Nos. 1			Specifications and Engineers approval.				
ii 2º dia foot valve 2 Nos. iv 2º Y-type Strainer 2 Nos. v 2º Floxible Connection 4 Nos.	i		1/2" dia. Bib Tap	1	Nos.		
tv 2"Y-type Strainer 2 Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.							
2º Flexible Connection 4 Nos.							
AMOUNT CARRIED TO SUMMARY	V		2 Flexible Conflection	4	1405.		
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		Bill of Quantities				
S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
						, ,
1	2	3	4	5	6	7=(4X6)
	Item #/Page#/ Vol.sched ref.					7=(4X6)
		AMOUNT CARRIED TO SUMMARY				

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

	GOVT. OF SINDH	Bill of Quantities				
S.No.	CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Vol.sched ref.	3	4	5	6	7-(4\/)
ı	2	3	4	5	0	7=(4X6)
8 a		Water Cooler 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 connection s as indicated in the drawings, as per specifications and engineers approval.	6	No.		
b		Water Filter 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.	6	No.		
		AMOUNT CARRIED TO SUMMARY				

EA Consulting

		Bill of Quantities				
	GOVT. OF SINDH					
S.No.	CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ltem #/Page#/				(Rs.)	(Rs.)
	Vol.sched ref.		-		-	
1	2	3	4	5	6	7=(4X6)
9		Soil, Waste,RW and Vent Pipes				
		Providing and fixing, uPVC pipes and fittings as per BS EN				
		1329 for above ground installations for Soil, Waste, Vent & 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 Enaineers approval.				
i		2" dia	310	Rft		
ii		3" dia	600	Rft		
iii		4" dia	480	Rft		
		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.				
			005	5.0		
i		6" dia	380	Rft		
		AMOUNT CARRIED TO SUMMARY				<u> </u>
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		Bill of Quantities		,		ı
S.No.	GOVT. OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					(110.7)
1	2	3	4	5	6	7=(4X6)
10		Drainage Specialties 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		
c d		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. Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.	2	Nos		
i ii		2" dia 3" dia	2 2	Nos Nos		
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		
		AMOUNT CARRIED TO SUMMARY				

		Bill of Quantities				
S.No.	GOVT. OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					
1	2	3	4	5	6	7=(4X6)
11		Manholes and Gully traps				
а		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.		
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.		
С		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	1	Nos		
d		approval. 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		
	l	AMOUNT CARRIER TO CHAMARY				
		AMOUNT CARRIED TO SUMMARY				•

		Bill of Quantities				
S.No.	ltem #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					
1	2	3	4	5	6	7=(4X6)
12		External Connection 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.	1	Job		
	<u> </u>	AMOUNT CARRIED TO SUMMARY				
<u> </u>						1



A. SCHEDULE ITEMS 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. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent	S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
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. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent	Α.	SCHEDULE ITEMS	ROI LL3
Add % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH TOTAL-A Rs. B. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent			
Add % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH TOTAL-A Rs. B. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent			
Add % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH TOTAL-A Rs. B. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent			
Add % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH TOTAL-A Rs. B. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent			
Add % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH TOTAL-A Rs. B. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent		SUR-TOTAL-A Pe	
B. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent		Add % Above/Below/At par on Plumbing Works of	
B. NON-SCHEDULE ITEMS 1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent		Composite Schedule of Rates 2012, GOVT. OF SINDH	
1 Fire Extinguishers 2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent		TOTAL-A Rs.	
2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent	В.	NON-SCHEDULE ITEMS	
2 Fire Piping 3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent			
3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent	'	Fire Extinguishers	
3 Fire Valves 4 Fire Hose Rack 5 Automatic Air Vent	2	Fire Piping	
4 Fire Hose Rack 5 Automatic Air Vent			
5 Automatic Air Vent	3	Fire Valves	
5 Automatic Air Vent			
	4	Fire Hose Rack	
	5	Automatic Air Vent	
SUB-TOTAL-B Rs.		Automatic Ali Veni	
SUB-TOTAL-B Rs.			
3UU-IVIAL-U N3.1		SIIR-TOTAL-R De	
GRAND TOTAL AMOUNT (A+B)			

		bill of Qodiffiles		r		1
	GOVT. OF					
	SINDH CSR				DATE	AAAOUNIT
S.No.	2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/				(Rs.)	(Rs.)
	Vol.sched ref.					
1	2	3	4	5	6	7=(4X6)
	2		-	3	0	7-(4/0)
A.		(SCHEDULE ITEMS)				
—						
L		TOTAL				-

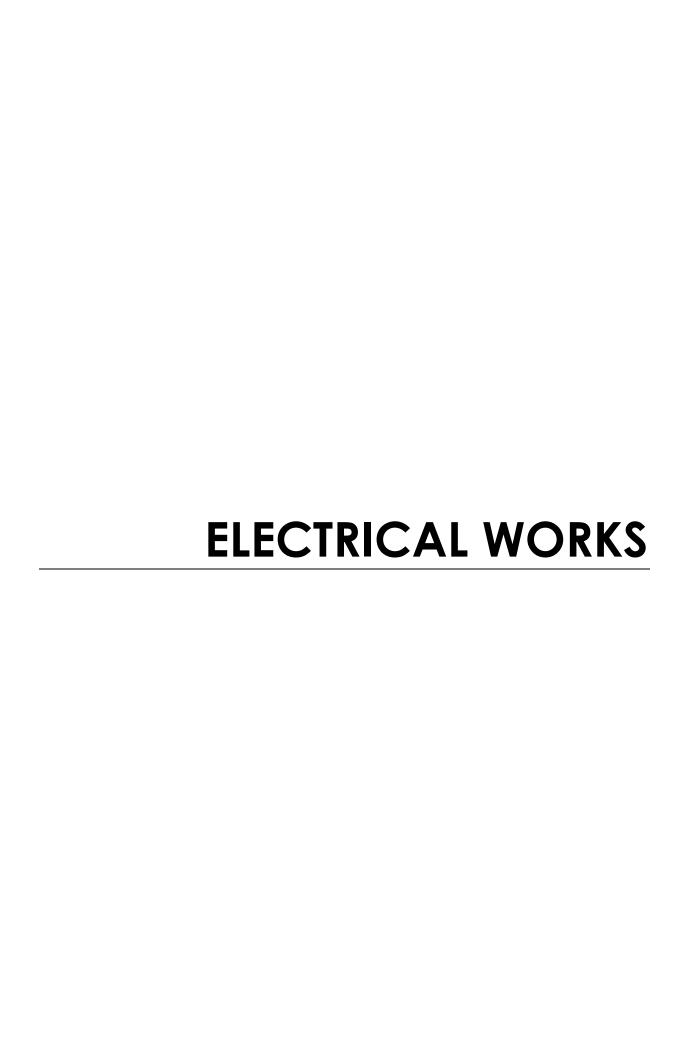
	Bill of Quantities								
S.No.	GOVT. OF SINDH CSR 2012 Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)			
	voi.scried ref.								
В		(NON-SCHEDULE ITEMS)							
B. 1		FIRE-PROTECTION SPECIALTIES Fire Extinguishers Supply and installation of below mentioned Fire Extinguishers as per drawings and Specifications 6 Kg C02 wall mounted fire Extinguisher with wall mounted bracket 5 Kg ABC Type Dry powder Extinguishers with wall mounted bracket	16	Nos Nos					
		TOTAL							

		Bill of Quantities			1	
	GOVT. OF					
S.No.	SINDH CSR	DESCRIPTION	OTV	UNIT	RATE	AMOUNT
3.NO.	2012		QTY	UNII	(Rs.)	(Rs.)
	Item #/Page#/ Vol.sched ref.					
	VOI.SCHEUTEI.					
2		Fire Piping				
		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.				
		3" dia	210	DET		
i			310	RFt DE		
ii		1 1/2" dia	70	RFt		
		TOTAL				
		TOTAL				

_		Bill of Quantities				
	GOVT. OF					
.	SINDH CSR	D. FOOD D. T. O. V.	O-TV		RATE	AMOUNT
S.No.	2012	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
	Item #/Page#/					
-	Vol.sched ref.					
3		Fire Valves				
		Supply, installation, testing and Commissioning of O.S and				
		Y Cast Iron Gate Valves with of PN-16 with EPDM Seal as				
		per ASTM A536 flanged type as required as per drawings, specifications and Engineers Recommendation.				
		specifications and Engineers Recommendation.				
i		1 1/2" dia	7	Nos.		
ii		3" dia	1	Nos.		
-						
		TOTAL				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					
4	Item #/Page#/	Fire Hose Rack 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. 1-1/2" diameter, 30m high pressure Hose Rack with Multi Iflow 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.	7	Nos.	(Rs.)	(Rs.)
		TOTAL				

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



S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A.	SCHEDULE ITEMS	
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.	
В.	NON-SCHEDULE ITEMS	
1	L.V. PANELS & DISTRIBUTION BOARDS	
2	LOW VOLTAGE CABLES AND WIRES	
3	CONDUITS & PIPES	
4	WIRING ACCESSORIES	
5	LIGHT FIXTURE & FANS	
6	UPS SYSTEM	
7	CABLE TRAY & CABLE TRUNKING	
8	DIESEL GENERATOR FOUNDATION / PAD	
9	LIGHTNING PROTECTION SYSTEM (LPS)	
10	EARTHING SYSTEM	
	SUB-TOTAL-B Rs.	
	GRAND TOTAL AMOUNT (A+B)	

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/ Vol.sched ref.				(Rs.)	(Rs.)
1	2	PART-A (SCHEDULE ITEMS)	4	5	6	7 = (4 x 6)
1	SUB HEAD I	SUB HEAD I MAIN & SUBMAINS				
	D.	WITH 3 WIRE PVC CONDUIT RECCESSED IN THE WALL OR COLUMN				
a)	Item # 24(D)/ P-4/ Second Edition-2012	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.029 copper conductor in 3/411 dia PVC conduit recessed in the wall or column as required.				
b)	Item # 25(D)/ P-4/ Second Edition-2012	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 3-7/.036 copper conductor in 34'' dia PVC conduit recessed in the wall or column as required.	2,250	Per Mtr.	294	661,500
			1,950	Per Mtr.	338	659,100
	N.	WITH 4 CORE OVERHEAD OR UNDERGROUND 300/500				
c)	Item # 99(N)/ P-12/ Second Edition-2012	Providing & laying (MAIN or SUB MAIN)PVC insulated & PVC sheeted with 4 core copper conductor 300/500 volts size 4mm2				
d)	Item # 100(N)/ P-12/ Second Edition-2012	Providing & laying (MAIN or SUB MAIN)PVC insulated & PVC sheeted with 4 core copper conductor 300/500 volts size 6mm2	20	Per Mtr.	361	7,220
e)	Item # 101(N)/	Providing & laying (MAIN or SUB MAIN)PVC insulated & PVC sheeted with 4 core copper conductor 300/500	145	Per Mtr.	500	72,500
	Edition-2012	volts size 10mm2	200	Per Mtr.	742	148,400
	Ο.	WITH 4 CORE OVERHEAD OR UNDERGROUND 600/1000				
f)	Item # 102(O)/ P-12/ Second Edition-2012	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 16mm2				
g)	Item # 104(O)/ P-12/ Second	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000	120	Per Mtr.	1,300	156,000
	Edition-2012	volts size 35mm2	110	Per Mtr.	2,529	278,190
h)	Item # 105(O)/ P-12/ Second Edition-2012	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000 volts size 50mm2				
j)	Item # 109(O)/ P-13/ Second	Providing & laying (MAIN or SUB MAIN) PVC insulated & PVC sheeted with 4 core copper conductor 600/1000	205	Per Mtr.	3,312	678,960
	Edition-2012	volts size 150mm2	30	Per Mtr.	10,028	300,840
	CARRIE	ED TO ELECTRICAL SUMMARY ====>>>>				2,962,710

S.No.	GOVT. OF SINDH CSR 2012 Item #/Page#/	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	Vol.sched ref.					
1	2	3	4	5	6	7 = (4 x 6)
2 a)	SUB HEAD II Item # 124/ P-15/ Second Edition-2012	SUB HEAD II POINT WIRING 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
	CARRIE	ED TO ELECTRICAL SUMMARY =====>>>				1,108,530

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

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.110.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	XII	Oldii	(Rs.)	(Rs.)
1	2	3 PART-B (NON-SCHEDULE ITEMS)	4	5	6	7 = (4 x 6)
1 a)		L.V. PANELS & DISTRIBUTION BOARDS 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.		
ii		EMDB-SMIU (Form-2, Type-2)	1	No.		
iii		SMDB-DC (Form-2, Type-2)	1	No.		
iv		SMDB-IT (Form-2, Type-2)	1	No.		
٧		SMDB-UPS-IT (Form-2, Type-2)	1	No.		
vi		DB-IT-GF	1	No.		
vii		DB-IT-1F	1	No.		
viii		DB-IT-2F	1	No.		
ix		DB-IT-3F	1	No.		
х		DB-IT-4F	1	No.		
xi		DB-IT-5F	1	No.		
xii		DB-IT-6F	1	No.		
xiii		DB-IT-ICT-GF	1	No.		
xiv		DB-IT-ICT-2F	1	No.		
XV		DB-DC	1	No.		
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.		
ii		40A TPN Isolator Weatherproof type	4	No.		
iii		63A TPN Isolator Weatherproof type	2	No.		
iv		100A TPN Isolator Weatherproof type	4	No.		
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.		
	CARRII	ED TO ELECTRICAL SUMMARY =====>>>				

Tems #/Page#/ Volsched ref. 3	C.N.	GOVT. OF SINDH CSR 2012		OTV.	T	RATE	AMOUNT
LOW VOLTAGE CABLES AND WIRES 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. 4 Core - CU/PVC/PVC Cable (6000/1000V) 4 Core - 300 Sq.mm Cu/PVC/PVC Cable 40 Mtr. 4 Core - 16 Sq.mm Cu/PVC/PVC Flexible Cable 10 Mtr. 4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable 7 Mtr. C) 1 Core - CU/PVC Cable (450/750V) as ECC i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. ii 1 Core - 16 Sq.mm Cu/PVC Cable 205 Mtr. ii 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. ii 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. ii 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr.	S.No.		DESCRIPTION	QTY	UNIT		(Rs.)
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. 4 Core - CU/PVC/PVC Cable (6000/1000V) 4 Core - 300 Sq.mm Cu/PVC/PVC Cable 40 Mtr. 4 Core - 16 Sq.mm Cu/PVC/PVC Flexible Cable 10 Mtr. 4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable 7 Mtr. C) 1 Core - CU/FVC Cable (450/750V) as ECC i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 205 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr.	1	2	3	4	5	6	$7 = (4 \times 6)$
i 4 Core - 300 Sq.mm Cu/PVC/PVC Cable 40 Mtr. b) 4 Core - CU/PVC/PVC Flexible Cable (300/500V) i 4 Core - 16 Sq.mm Cu/PVC/PVC Flexible Cable 10 Mtr. ii 4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable 7 Mtr. c) 1 Core - CU/PVC Cable (450/750V) as ECC i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.	2		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,				
b) 4 Core - CU/PVC/PVC Flexible Cable (300/500V) i 4 Core - 16 Sq.mm Cu/PVC/PVC Flexible Cable 10 Mtr. ii 4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable 7 Mtr. c) 1 Core - CU/PVC Cable (450/750V) as ECC i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.	a)		4 Core - CU/PVC/PVC Cable (6000/1000V)				
i 4 Core - 16 Sq.mm Cu/PVC/PVC Flexible Cable 10 Mtr. 4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable 7 Mtr. C) 1 Core - CU/PVC Cable (450/750V) as ECC i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.			4 Core - 300 Sq.mm Cu/PVC/PVC Cable	40	Mtr.		
ii 4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable 7 Mtr. c) 1 Core - CU/PVC Cable (450/750V) as ECC i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.	b)		4 Core - CU/PVC/PVC Flexible Cable (300/500V)				
C) 1 Core - CU/PVC Cable (450/750V) as ECC i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.				10			
i 1 Core - 70 Sq.mm Cu/PVC Cable 10 Mtr. ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.	ii		4 Core - 10 Sq.mm Cu/PVC/PVC Flexible Cable	7	Mtr.		
ii 1 Core - 25 Sq.mm Cu/PVC Cable 205 Mtr. iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.	c)		1 Core - CU/PVC Cable (450/750V) as ECC				
iii 1 Core - 16 Sq.mm Cu/PVC Cable 185 Mtr. iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.	i		1 Core - 70 Sq.mm Cu/PVC Cable	10	Mtr.		
iv 1 Core - 10 Sq.mm Cu/PVC Cable 205 Mtr. 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.			1 Core - 25 Sq.mm Cu/PVC Cable	205	Mtr.		
v 1 Core - 6 Sq.mm Cu/PVC Cable 145 Mtr.	iii						
VI Core - 4 Sq.mm Cu/PVC Cable 20 Mrr.							
CARRIED TO ELECTRICAL SUMMARY =====>>>>		CARRI	ED TO ELECTRIC AL SUIAAAA DV				

C N a	GOVT. OF SINDH CSR 2012		OTV	HAUT	RATE	AMOUNT
S.No.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
1	2	3	4	5	6	$7 = (4 \times 6)$
3 a)		CONDUITS & PIPES 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.		
ii		38 mm dia PVC	25	Mtr.		
iii		50 mm dia UPVC (Class-D)	20	Mtr.		
iv		100 mm dia UPVC (Class-D)	30	Mtr.		
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.		
ii		100 mm dia UPVC (Class-D)	50	Mtr.		
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.	30	7411.		
		water proof, complete in direspect.	2	No.		
	CADDI	ED TO ELECTRICAL SUMMARY =====>>>				

DESCRIPTION URL CRs. (Rs.) (Rs.)	C N -	GOVT. OF SINDH CSR 2012		OTV	HAUT	RATE	AMOUNT
wirth Accessories a) Supply Installation, festing & commissioning of following 10/13/15/20A. gang type switches. Dimmer Switches. Sockets including 16 SWG Smet Steel powder coated back Boxes with earth terminal, recessed in wall, with all accessories as per specification, complete in all respects. ii 10A. One Gang Switch 30 No. 10A, Imree Gang Switch 16 No. 10A, Imree Gang Switch 47 No. 10A, Imree Gang Switch 55 No. 10A, Imree Gang Dimmer with 10A Switch 8 No. 10A Gang Dimmer with 10A Switch 55 No. 10A, 3-Pin Houristandard Switched Socket Outlet 77 No. 13A, 3-Pin Multi Standard Switched Socket Outlet 10A, 3-Pin Multi Standard Switched	S.No.		DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
a) Suppy, installation, testing 8, commissioning of following 10/13/11/32/04, gang types whiches. Dinner switches. Sockets including 16 SWG Sheef Sheel 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. 10A, Three Gang Switch 14 No. 10A, Three Gang Switch 47 No. 10A, Three Gang Switch 47 No. 10A, Three Gang Switch 47 No. 10A, Three Gang Switch 38 No. 10A, Tour Gang Bimmer with 10A Switch 8 No. 10A, Two Gang Dimmer with 10A Switch 55 No. 10A, Shin 1-Gang Dimmer with 10A Switch 55 No. 10A, Shin 1-Gang Dimmer with 10A Switch 55 No. 10A, Shin 1-Gang Switched Socket Outlet 77 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 78 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 70 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 70 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 70 No. 15A, 3-Pin Flat 1-Gang United Notes 70 No. 15A, 3-Pin Flat 1-Gang United Notes 70 No. 15A, 3-Pin Notes 70 No. 15A, 3-Pin	1	2	3	4	5	6	7 = (4 x 6)
a) Suppy, installation, testing 8, commissioning of following 10/13/11/32/04, gang types whiches. Dinner switches. Sockets including 16 SWG Sheef Sheel 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. 10A, Three Gang Switch 14 No. 10A, Three Gang Switch 47 No. 10A, Three Gang Switch 47 No. 10A, Three Gang Switch 47 No. 10A, Three Gang Switch 38 No. 10A, Tour Gang Bimmer with 10A Switch 8 No. 10A, Two Gang Dimmer with 10A Switch 55 No. 10A, Shin 1-Gang Dimmer with 10A Switch 55 No. 10A, Shin 1-Gang Dimmer with 10A Switch 55 No. 10A, Shin 1-Gang Switched Socket Outlet 77 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 78 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Nutil Standard Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 79 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 70 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 70 No. 15A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 70 No. 15A, 3-Pin Flat 1-Gang United Notes 70 No. 15A, 3-Pin Flat 1-Gang United Notes 70 No. 15A, 3-Pin Notes 70 No. 15A, 3-Pin	4		WIDING A COTOCODITO				
iii 10A, One Gang Switch (2-Way) 15 No. 10A, Two Gang Switch 16 No. 10A, Three Gang Switch 47 No. 10A, Four Gang Switch 38 No. 10A, Four Gang Switch 38 No. 10A, Four Gang Dimmer with 10A Switch 8 No. 10A, Gang Dimmer with 10A Switch 8 No. 10A, 3-Pin I-Gang Switched Socket Outlet 77 No. 11A, 3-Pin Multi Standard Switched Socket Outlet (Weather proof) 6 No. 11A, 3-Pin Multi Standard Switched Socket Outlet (Weather proof) 11A, 3-Pin Hutli Standard Switched Socket Outlet (Mounted in floor) 11A, 3-Pin Flat 1-Gang Switched Socket Outlet (Mounted in floor) 11A, 3-Pin Flat 1-Gang Switched Socket Outlet 17A No. 11A, 3-Pin Flat 1-Gang Switched			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				
iii 10A, Two Gang Switch 10A, Three Gang Switch 47 No. 10A, Three Gang Switch 47 No. 10A, Four Gang Switch 38 No. 10A, Four Gang Switch 8 No. 10A, Four Gang Dimmer with 10A Switch 8 No. 10A, Sprin In-Gang Switched Socket Outlet 3 No. 10A, 3A, 3-Pin Audit Standard Switched Socket Outlet 77 No. 13A, 3-Pin Multi Standard Switched Socket Outlet 1A, 3A, 3-Pin Multi Standard Switched Socket Outlet 1A, 3A, 3-Pin Multi Standard Switched Socket Outlet 1A, 3A, 3-Pin Pint 12-Gang Switched Socket Outlet 1A, 3A, 3-Pin Pint 12-Gang Switched Socket Outlet 1A, 3A, 3-Pin Pint 1-Gang Un-Switched Socket Outlet 23 No. 10A, One Gang Switch (for Projector) 5 No. 10A, One Gang Switch (for Projector) 6 No. 10A, One Gang Switch (for Projector) 1A, 3A, 3-Pin Single Phase Industrial Socket with plug top 1A, 3A, 3-Pin Single Phase Industrial Socket with plug top 1A, 3A, 3-Pin Single Phase Industrial Socket with plug top 1A, 3A, 3-Pin Single Phase Industrial Socket with plug top 1A, 3A, 3A, 3A, 3A, 3A, 3A, 3A, 3A, 3A, 3	i		10A, One Gang Switch	30	No.		
10A, Three Gang Switch	ii		10A, One Gang Switch (2-Way)	15	No.		
v i One Gang Dimmer with 10A Switch 8 No. Vii Two Gang Dimmer with 10A Switch 65 No. Viii 5A, 3-Pin 1-Gang Switched Socket Outlet 3 No. I 3A, 3-Pin Multi Standard Switched Socket Outlet (Weather proof) I 3A, 3-Pin Multi Standard Switched Socket Outlet (Meather proof) I 3A, 3-Pin Flat 1-Gang Switched Socket Outlet (mounted in floor) I 3A, 3-Pin Flat 1-Gang Switched Socket Outlet (mounted in floor) I 3A, 3-Pin Flat 1-Gang Switched Socket Outlet 23 No. I 3A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 23 No. I 3A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 23 No. I 3A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 24 No. I 3A, 3-Pin Flat Switched Socket Outlet 35 No. I 3A, 3-Pin Flat Switched Socket Outlet 36 No. I 3A, 3-Pin Flat Switched Socket Outlet 37 No. I 3A, 3-Pin Flat Switched Socket Outlet 38 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 39 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched Socket Outlet 30 No. I 3A, 3-Pin Flat Switched	iii		10A, Two Gang Switch	16	No.		
vii	iv		10A, Three Gang Switch	47	No.		
viii	٧		10A, Four Gang Switch	38	No.		
viii ix	vi		One Gang Dimmer with 10A Switch	8	No.		
ix 13A, 3-Pin Multi Standard Switched Socket Outlet (Weather proof) 13A, 3-Pin Multi Standard Switched Socket Outlet (Weather proof) 13A, 3-Pin Multi Standard Switched Socket Outlet (mounted in floor) 13A, 3-Pin Flat 2-Gang Switched Socket Outlet 17A No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 23 No. 10A, One Gang Switch (for Projector) 23 No. 16A, 3-pin Single Phase Industrial Socket with plug top b) Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 5 No.	vii		Two Gang Dimmer with 10A Switch	65	No.		
x	viii		5A, 3-Pin 1-Gang Switched Socket Outlet	3			
x i 13A, 3-Pin Multi Standard Switched Socket Outlet (Weather proof) 13A, 3-Pin Multi Standard Switched Socket Outlet (mounted in floor) 1 No. 13A, 3-Pin Flat 2-Gang Switched Socket Outlet 173 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 23 No. 10A, One Gang Switch (for Projector) 23 No. 16A, 3-pin Single Phase Industrial Socket with plug top b) Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 5 No.	ix		13A, 3-Pin Multi Standard Switched Socket Outlet	77	No.		
xii			13A, 3-Pin Multi Standard Switched Socket Outlet				
xii 13A, 3-Pin Flat 2-Gang Switched Socket Outlet 173 No. 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 23 No. 10A, One Gang Switch (for Projector) 23 No. 16A, 3-pin Single Phase Industrial Socket with plug top 10 No. Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 5 No.	xi						
xiii xiv 13A, 3-Pin Flat 1-Gang Un-Switched Socket Outlet 23 No. 10A, One Gang Switch (for Projector) 23 No. 16A, 3-pin Single Phase Industrial Socket with plug top 5 Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 5 No.							
xiv 10A, One Gang Switch (for Projector) 16A, 3-pin Single Phase Industrial Socket with plug top Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 5 No.							
b) Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 10 No. No.							
Supply, installation, testing and commissioning of Floor Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 5 No.	xiv		10A, One Gang Switch (tor Projector)	23	No.		
Outlet Box (without Switches & Sockets), as shown on drawing complete in all respect. 5 No.	XV		16A, 3-pin Single Phase Industrial Socket with plug top	10	No.		
CARRIED TO ELECTRICAL SHAMARY THEORYS	b)		Outlet Box (without Switches & Sockets), as shown on		No.		
CARRIED TO ELECTRICAL SHAMARY THEORY							
CARRIED TO ELECTRICAL SUMMARY PROPERSON							
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S.No.	GOVT. OF SINDH CSR 2012		OTV	UNIT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNII	(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
5		LIGHT FIXTURE & FANS				
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. Note: Refer light fixtures drawings for complete light fixtures details.				
		Type D1 - Surface Ceiling mounted Down Light Fixture				
i		(IP-20) with 20W LED (Minimum 1600 Im Luminous Flux)	110			
ii		Type D2 - Recessed Ceiling mounted Down Light Fixture (IP-44) with 7W LED (Minimum 650 Im Luminous Flux)	119	No.		
			28	No.		
iii		Type D3 - Recessed Ceiling mounted Down Light Fixture (IP-44) with 10W LED (Minimum 1000 Im Luminous Flux)				
		Type D4 Record Calling may ated Days Light Fixture	36	No.		
iv		Type D4 - Recessed Ceiling mounted Down Light Fixture (IP-20) with 10W LED (Minimum 1000 Im Luminous Flux)				
			98	No.		
٧		Type D5 - Recessed Ceiling mounted Down Light Fixture (IP-44) with 14W LED (Minimum 1400 Im Luminous Flux)	77			
vi		Type D6 - Surface Ceiling mounted Down Light Fixture (IP-20) with 28W LED (Minimum 2100 lm Luminous Flux)	77	No.		
vii		Type D7 - Surface Ceiling mounted Down Light Fixture (IP-54) with 20W LED (Minimum 1600 Im Luminous Flux)	12	No.		
			2	No.		
viii		Type F1 - Surface Ceiling / Wall mounted 4' Long Batten Light Fixture (IP-20) with 40W LED (Minimum 3700 Im Luminous Flux)	051			
ix		Type F2 - Surface Ceiling mounted 2' Long Batten Light Fixture (IP-20) with 20W LED (Minimum 1900 Im Luminous	251	No.		
IX		Flux) Type W1 - Wall mounted Light Fixture (IP-54) with 2x5W	8	No.		
X		LED Type W2 - Wall mounted Bulkhead Light Fixture (IP-54)	2	No.		
хi		with 10W LED (Minimum 800 Im Luminous Flux) Wall mounted LED Flood Light Fixture (IP-66) with 150W	15	No.		
xii		LED	12	No.		
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.		
	0455	ED TO ELECTRICAL SUMMARY =====>>>				

S.No.	CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/ Vol.sched ref.				(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
6 a)		UPS SYSTEM 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.				
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.		
			1	No.		
		ED TO ELECTRICAL SUMMARY =====>>>				

c Na	GOVT. OF SINDH CSR 2012	DESCRIPTION	OTV	HAUT	RATE	AMOUNT
S.No.	Item #/Page#/ Vol.sched ref.	age#/	QTY	UNIT	(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
7		CABLE TRAY & CABLE TRUNKING				
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.		
ii		12" x 4" (300mm x 100mm)	22	Mtr.		
iii		18" x 4" (450mm x 100mm)	80	Mtr.		
iv		24" x 4" (600mm x 100mm)	40	Mtr.		
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.		
ii		18" x 4" (450mm x 100mm)	25	Mtr.		
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.				
		011 011 /50 50				
i ::		2" x 2" (50mm x 50mm) 3" x 3" (75mm x 75mm)	10	Mtr.		
ii			35	Mtr.		
	CARRII	ED TO ELECTRICAL SUMMARY ====>>>				

a) Prepare RCC b 125 KVA Diesel manufacturer, engineer and	DECCRIPTION	OTV	UNIT	RATE	AMOUNT
8 DIESEL GENERAT Prepare RCC b 125 KVA Diesel manufacturer, engineer and approved by Ele	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
a) Prepare RCC b 125 KVA Diesel manufacturer, engineer and approved by El	3	4	5	6	7 = (4 x 6)
125 KVA Diesel manufacturer, engineer and approved by El	TOR FOUNDATION / PAD				
	case as foundation / pad for 50 KVA & Generators (as per recommendation of specification and directed by the consultant. Pad on standard and lectrical Inspector / Explosives Inspector, respect.		Job.		
0.48888 - 0.71707-10.11	LL SUMMARY =====>>>				

S.No.	GOVT. OF SINDH CSR 2012		QTY	UNIT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	UNII	(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
9		LIGHTNING PROTECTION SYSTEM (LPS)				
9 a)		Supply, installation, testing and commissioning of 27mm				
<i>3.</i> ,		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.		
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:	73	WIII.		
		Efficiency: 60 micro seconds Lightning current withstanding test (10/350µs): 100 kA				
		ESE Central Rod: Nickel Plated Copper				
		Metal Housing : Stainless Steel 316L Protection Radius : 31 meter at 2 meter height	,			
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.		
d)		Providing and installation of pyramid holdfasts / studs filled with cement for holding and supporting the flat	1	No.		
		tape conductor, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	6	Nos.		
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.				
٠.			1	No.		
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.		
g)		Providing and installation of Test Clamp and Guard Tube 2 m in length, as per drawing and specification, as per specification, as per specification, as per site requirement necessary for the functioning of the system, complete in all respect.				
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		Job.		
		respect.	20	Mtr.		
	0485:	LED TO ELECTRICAL SUMMARY =====>>>				

c Na	GOVT. OF SINDH CSR 2012	DESCRIPTION	OTV	HAUT	RATE	AMOUNT
S.No.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
10		EARTHING SYSTEM				
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.		
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.		
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.		
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.				
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	45	Mtr.		
f)		conduit, complete in all respect. Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 32 mm dia uPVC	15	Mtr.		
		conduit, complete in all respect.	15	Mtr.		
	CADDI	ED TO ELECTRICAL SUMMARY =====>>>				

ELV SYSTEM

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

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
J.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	ONII	(Rs.)	(Rs.)
1	2	3 PART-A (SCHEDULE ITEMS)	4	5	6	7 = (4 x 6)
1	SUB HEAD VI	SUB HEAD VI JUNCTION BOX				
a)		Providing & fixing junction box as per following specification Size of box 8'`x6'`x4'` MS plate size 16 SWG thick Clamp with nuts & bolts Cover plate with screw Painting two coats of rust preventive red oxide & two coats of ICI oil paint as per site requirement & instruction of El	1	Per No.	800	800
	_					
	CARRIE	D TO ELECTRICAL SUMMARY =====>>>				80

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	UNII	(Rs.)	(Rs.)
1	2	3	4	5	6	$7 = (4 \times 6)$
		PART-B (NON-SCHEDULE ITEMS)				
1		CONDUITS & PIPES				
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.		
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.		
	CARRIE	ED TO ELECTRICAL SUMMARY =====>>>				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QIY	UNII	(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
2		VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only)				
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.		
ii		12U Data Rack in IT Room (600mmx800mm)	6	Nos.		
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.		
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.		
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.		
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.		
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.		
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.		
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.		

	GOVT. OF SINDH CSR 2012				RATE	AMOUNT (Rs.) 7 = (4 × 6)
S.No.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	
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.		
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.		
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.		
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.		
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.		
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.		
ii		CAT-6a (2m) Long Patch Cord.	260	Nos.		
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	2	Nos.		
ii		100 Pair IDC Block	1	No.		
2.16		Supply, Installing, testing and commissioning of PABX with Analog (4+50) Nos. trunck 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.		
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.		

	GOVT. OF SINDH CSR 2012				RATE	AMOUNT
S.No.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
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.		Job.		
	CARRIE	ED TO ELECTRICAL SUMMARY =====>>>				

S.No.	GOVT. OF SINDH CSR 2012 Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6	7 = (4 x 6)
3		PUBLIC ADDRESS SYSTEM				
3.1		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.	560	Mtr.		
	CARRIE	ED TO ELECTRICAL SUMMA BY				
	CARRIE	ED TO ELECTRICAL SUMMARY =====>>>				

S.No.	GOVT. OF SINDH CSR 2012 Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	voi.scried ref.	3	4	5	6	7 = (4 x 6)
4	_	ADDRESSABLE FIRE ALARM SYSTEM			Ü	/ (4 X 0)
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.		
	CARRIE	ED TO ELECTRICAL SUMMARY =====>>>				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	OTV	HAUT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	(Rs.)	(Rs.)
1	2	3	4	5	6	7 = (4 x 6)
5		CABLE TRAY				
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.		
ii		300 x 50mm 16 SWG	25	Mtr.		
iii		200 x 50mm 16 SWG	40	Mtr.		
iv		150 x 50mm 16 SWG	80	Mtr.		
	CARDIE	ED TO ELECTRICAL SUMMARY =====>>>				



S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A.	SCHEDULE ITEMS	-
1	HVAC Works	
	SUB-TOTAL-A Rs.	
	Add % Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, GOVT. OF SINDH	
В.	TOTAL-A Rs.	
D.	(NON-SCHEDULE ITEMS)	
1	VARIABLE REFRIGERANT FLOW TYPE UNIT (copper piping with insulator & cladding on expose piping)	
	institution a ciadaning of expose piping,	
2	CLOSE CONTROL UNIT	
3	HVAC FANS	
4	CONDENICATE DIDING	
4	CONDENSATE PIPING	
5	DUCT WORKS & FLEXIBLE CONNECTOR	
6	AIR DEVICES	
7	HANCED & CURDORTS	
7	HANGER & SUPPORTS	
8	CIVIL WORKS	
9	GENERAL MECHANICAL ITEMS	
	SUB-TOTAL-B Rs.	
_	GRAND TOTAL CARRIED MASTER SUMMARY (A+B)	

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

	GOVT. OF SINDH					
S.No.	CSR 2012 Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1 B	2	3 NON-SCHEDULE ITEMS	4	5	6	7=(4X6)
1		VARIABLE REFRIGERANT FLOW TYPE UNIT				
1.1		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		
		AMOUNT CARRIED TO HVAC SUMMARY				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	ONII	(Rs.)	(Rs.)
1	2	3	4	5	6	7=(4X6)
1 2	Vol.sched ref.	CLOSE CONTROL UNIT Supply, Installation, Testing & Commissioning of Close Control Airconditioning 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 & acessories 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. CCU-1 to 3 & ODU-1 to 3 (Capacity - 60 MBH)	3	Nos		
		AMOUNT CARRIED TO HVAC SUMMARY				

		GOVT. OF SINDH CSR 2012					
1	S.No.	Item #/Page#/	DESCRIPTION	QTY	UNIT		
HVAC FANS Supply, installation, testing and commissioning of HVAC fans, as per equipment schedule, as shown on the drawings including all lobour, material and accessories, complete in all respect and to the solistaction of engineer inchange. BASMANT	1		3	4	5	6	7=(4X6)
Supply, installation, testing and commissioning of HYAC fors, as per equipment schedule, as shown on the examings including all lobour, material and occessories, complete in all respect and to the solistaction of engineer incharge. PASHAMT. I EF011 500 cfm] I Nos. GROWN ROOR II FF011 150 cfm] I Nos. SECOND ROOR IV F021 (300 cfm) I Nos. SECOND ROOR V F023 (300 cfm) I Nos. POUR ROOR VI F024 (300 cfm) I Nos. POUR ROOR VI F024 (300 cfm) I Nos. SITH ROOR VI F026 (300 cfm) I Nos. SITH ROOR VII F026 (300 cfm) I Nos. SITH ROOR VII F026 (300 cfm) I Nos.	•	_					` '
per equipment schedule, as shown on the drawings including all lobour, material and accessories, complete in all respect and to the suitidaction of engineer inchange. BEOLI (Soo clm) 1 Nos. FEOLI (Soo clm) 1 Nos. FEOLI (Soo clm) 1 Nos. SECOND FLOOR FEOLI (So clm) 1 Nos. SECOND FLOOR V FEOLI (SO clm) 1 Nos. V FEOLI (SO clm) 1 Nos. FEOLI (SO clm) 1 Nos. FEOLI (SO clm) 1 Nos. VI FEOLI (SO clm) 1 Nos. VI FEOLI (SO clm) 1 Nos. SIXIN FLOOR VII FEOLI (SO clm) 1 Nos. SIXIN FLOOR FEOLI (SO clm) 1 Nos. SIXIN FLOOR FEOLI (SO clm) 1 Nos.	3						
Idooux material and accessories, complete in all respect and to the satisfaction of engineer incharge. ASEMENT							
the sotisfaction of engineer incharge.							
BASEMENT FE-01 (500 cfm) 1 Nos. II							
F-01 500 cfm 1							
GROUND FLOOR	i			1	Nos		
				'	1103.		
	ii			1	Nos.		
SECOND FLOOR							
HIRD FLOOR							
V	iv		EF-02 (300 cfm)	1	Nos.		
FOURTH FLOOR			THIRD FLOOR				
vii	٧		EF-03 (300 cfm)	1	Nos.		
FIFTH FLOOR EP-05 (300 ofm) 1 Nos.							
viii	vi			1	Nos.		
SIXTH FLOOR EF-06 (300 cfm) 1 Nos.							
viii EF-06 (300 cfm) 1 Nos.	∨ii			1	Nos.		
				,	NI		
	VIII		EF-06 (300 cfm)	I	NOS.		
			AMOUNT CARRIED TO HVAC SUMMARY				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	UNII	(Rs.)	(Rs.)
1	2	3	4	5	6	7=(4X6)
4		CONDENSATE PIPING 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.				
i		3/4" dia	625	Rft		
ii		2" dia	1260	Rft		
		AMOUNT CARRIED TO HVAC SUMMARY				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.140.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTI	ONII	(Rs.)	(Rs.)
1	2	3	4	5	6	7=(4X6)
5		DUCT WORKS & FLEXIBLE CONNECTOR				
5.1 i		DUCT WORKS 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. 24 - Gauge	416	Sq.Ft		
5.2		FLEXIBLE DUCT CONNECTOR 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.	10	Nos.		
		AMOUNT CARRIED TO HVAC SUMMARY				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Item #/Page#/ Vol.sched ref.		-	-	(Rs.)	(Rs.)
1	2	3	4	5	6	7=(4X6)
6		AIR DEVICES 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. Exhaust Air Diffuser with Damper				
i		6" × 6"	33	Nos		
ii		Exhaust Air Louver				
		24" x 24"	6	Nos		
		AMOUNT CARRIED TO HVAC SUMMARY				

S.No.	GOVT. OF SINDH CSR 2012	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3.NO.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QII	ONII	(Rs.)	(Rs.)
1	2	3	4	5	6	7=(4X6)
1 7		HANGER & SUPPORTS 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.	1	Lot	6	7=(4X6)

	GOVT. OF SINDH CSR 2012				DATE	AMOUNT
S.No.	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	(Rs.)
1	2	3	4	5	6	7=(4X6)
8		CIVIL WORKS 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.	1	Job		
		AMOUNT CARRIED TO HVAC SUMMARY				

	GOVT. OF SINDH	он				
S.No.	CSR 2012 Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6	7=(4X6)
9		GENERAL MECHANICAL ITEMS				
i		SHOP DRAWINGS & AS BUILT DRAWINGS Providing Shop Drawings and As Built Drawings in A1 size, as advised by the Consultant, complete in all respect.	1	Job		
ii		PAINTING & FINISHES				
		Providing Painting and Finishing, as directed by the Engineer Incharge, complete in all respect.	1	Job		
iii		TEST RUN PERIOD 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.	1	Job		
		estimetre viii perissed to the estimation.				
		AMOUNT CARRIED TO HVAC SUMMARY				



	GOVT.OF SINDH CSR 2012				DATE	AMOUNT
S.No	Item #/Page#/ Vol.sched ref.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
		PART-A (SCHEDULE ITEMS)				
		LOW HEIGHT BOUNDRY WALL				
1	Vol. III,Part-II & III,(General & PHEW)	EXCAVATIONS, BACKFILLING AND DEWATERING Excavation in foundation & dewatering or bailing or pumping out sub soil water during excavation concreting, cast in situ concrete or masonary 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.				
		a) In Sand, Ashes or Loose Soil				
	Item # 18(a)+18(i.ii) / P-4+75/	± 0'-0" ft to -5'-0"ft	120	Cft	8.15	978.00
		STONE SOLING				
2	Item # 2 / P-15 /VoI-III,Part-II, (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				
	(20::0:2)	satisfaction of the Engineer.	30	Cft	33.28	998.40
3	Item # 5(I) / P-16 /Vol-III,Part-II, (General)	PCC 1:4:8 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.				
		Below foundation, plinth beam,situ,walls,tanks, over stone soling or where required (Ratio 1:4:8)	90	Cft	112.89	10,160.10
		WOODEN FORMWORKS/SHUTTERING				
4	Item # 19b(i+ii/2) / P-18 /Vol-III,Part- II,(General)	Providing, fixing, erection and removal of centering for R.C.C or plain cement concrete works of partal 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.				
i		Form work for lean 1:4:8 / situ 1:3:6 concrete	35	Sft	33.58	1,175.30
5	Item # 101 / P-112 /VoI-III,Part-II, (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)				
ii)		Plinth Beams	30	Cft	271.61	8,148.30
6	Item # 8b / P-17 /VoI-III,Part-II, (General)	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).				
		property and approved by the engineery.	0.29	Ton	100,034	29,009.86
7	Item # 9 / P-71 /VoI-III,Part-II, (General)	BITUMEN COATING 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
		D.P.C				
8	Item # 28b / P-19 / Vol-III,Part- II,(General)	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,		051		
		drawing and entire satisfaction of the Engineer.	15	Sft	39.13	586.95

		Grand Total Carried to Master Summary				
	Ad	ld % Above / Below / At par on Civil Works of Sindh C	SR-2012			
		Total of Schedule Items				615,400
			_, .55			337,020.00
13	Item # 72 / P-49 / Vol. III,Part- II,(General)	CC Pre-Cast Paving Providing & fixing cement paving blocks flooring heving size of 197 x 97 x 60 (mm) of city/quddra/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 designe etc, complete in all respects s per standard specification, drawing and entire satisfaction of the Engineer.	2,400	Sft	223.97	537,528.00
	,, 55.13141	2nd and subsequent coat	270 270	Sft Sft	13.28 6.20	3,585.60 1,674.00
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		251		
		i) Ground Floor	270	Sft	30.16	8,143.20
11	Item # 11c / P-52 / Vol. III,Part- II,(General)	PLASTER (EXTERNAL SURFACE) 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.				
a)		6" Thick Block Masonry i) Ground Floor	68	Cft	157.71	10,724.28
10	Item # 24 / P-19 /VoI-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.				
'		i) Block column	12	Cft	146.21	1,754.52
a)		8" Thick Block Masonry				
9	Item # 23 / P-19 /Vol-III,Part-II, (General)	Block Masonry 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.				