

Works, are not specifically mentioned in the Specifications, such details shall be considered as included in the Contract Price.

**5. Bid Prices**

**5.1 Break-up of Bid Prices**

The various elements of Bid Prices shall be quoted as detailed by the IBA, Karachi in the format of Schedule of Prices.

The bidder shall recognize such elements of the costs which he expects to incur the performance of the Works and shall include all such costs in the rates and amounts entered in the Schedule of Prices.

**5.2 Total Bid Price**

The total of bid prices in the Schedule of Prices shall be entered in the Summary of Bid Prices.

**6. Provisional Sums and Day work**

**6.1** Provisional Sums included and so designated in the Schedule of Prices if any, shall be expended in whole or in part at the direction and discretion of the Engineer/IBA, Karachi. The Contractor will only receive payment in respect of Provisional Sums, if he has been instructed by the Engineer/IBA, Karachi to utilize such sums.

**6.2** Day work rates in the contractor's bid are to be used for small additional amounts of work and only when the Engineer have given written instructions in advance for additional work to be paid for in that way.



  
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## SCHEDULE – A TO BID

# **SCOPE OF WORK** **Rehabilitation of Main Gate at City Campus**

## BILL OF QUANTITIES (BOQ)

BASED ON COMPOSITE SCHEDULE OF RATES 2024					
Sr No	Description	Units	Qty	Rate	Amount
<b>(A) CIVIL WORK - GREY STRUCTURE</b>					
1	<b><u>Excavation</u></b>				
	Excavation in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth Watering and ramming lead upto 5 ft. , lead upto one chain (30 metre) and lift upto 5 ft. (1.5 metre). (Ch 1, Item 18)				
a)	Ordinary Soil	P.Cft	3,570.00	11.88	42,411.60
2	<b><u>Under Floor Filling Work</u></b>				
	Filling, watering and ramming earth under floor. with new earth (Excavated from outside) lift upto 5 ft and lead upto 10 miles. Including cost of earth. (Ch 1, Item 22)	P.Cft	500.00	47.02	23,510.00
3	<b><u>Brick Ballast</u></b>				
	Dry rammed brick or stone ballast 1 1/2" to 2" gauge. (Ch 4, Item 2)	P.Cft	109.72	104.97	11,517.31
4	<b><u>Anti Termite</u></b>				
	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 as per directions of Engineer In charge. (Ch 18, Item 92-A)	P.Sft	3,506.00	11.46	40,178.76
5	<b><u>PCC Concrete (Lean) 1: 4: 8</u></b>				
	Cement concrete plain including placing, compacting, Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering. (Ch 4, item 5)				



ii)	Lean (1:4:8)	P.Cft	297.00	348.83	103,602.51
<b>6</b>	<b>RCC Concrete 1:2:4 Raft / Footing</b>				
	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, centering, shuttering and curing. (including screening and washing of shingle. (Ch 4, Item 6)				
a)	R.C.C work in roof slab, beams, column, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects.				
i)	Ratio (1 : 2: 4) 90 Lbs of cement, 2 Cft sand and 4 Cft shingle 1/8" to 3/4" gauge				
1	Raft/Footing	P.Cft	540.00	717.59	387,498.60
2	Plinth Beams	P.Cft	659.16	717.59	473,006.62
3	Roof Beams	P.Cft	454.82	717.59	326,374.28
4	Slab	P.Cft	600.36	717.59	430,812.33
ii)	Ratio (1 : 1-1/2 : 3) 90 Lbs of cement, 1-1/2 Cft sand and 4 Cft shingle 1/8" to 3/4" gauge.				
1	Columns	P.Cft	925.00	787.71	728,631.75
<b>7</b>	<b>Steel Work</b>				
	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire (also includes removal of rust from bars. (ch 4, Item 8)				
a)	Deformed Bar				
i)	Grade-60	P.Cwt	256.27	18,934.0 2	4,852,183.44
<b>8</b>	<b>DPC (2" thick Horizontal)</b>				
	Damp proof course with (cement sand and shingle concrete 1:2 :4 ) including 2 coats of asphaltic mixture. (Ch 4, Item 28)				
b)	2" Thick	P.Sft	279.19	126.97	35,448.75
<b>9</b>	<b>Block Masorany Work 6" thick</b>				
	Providing and laying 1 : 3 : 6 Cement concrete solid Block masorany wall above 6" in thickness set in 1 : 6 cement mortar in G.F ground floor superstructure including raking out joints & curing etc, complete. (Ch 4, Item 24)	P.Cft	1,041.97	493.79	514,514.37

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10	<b>Plaster work</b>				
	Cement plaster 1:4 upto 12' height. (Ch 7, Item 11)				
b)	1/2" Thick	P.Sft	5,368.60	39.83	213,831.34
11	<b>MS Expanded metal and Deodar strip</b>				
	Providing and fixing expanded metal ½" to ¾" (12mm to 20mm) mesh 16 gauge. Fixed to chowkhat with 1" (25mm) thick deodar fixed to chowkhat deodar wood strip and screws etc. (12mm to 20mm) mesh 16 gauge. (Ch 10,, Item 22)				
a)	Fixed to chowkhat with 1" (25mm) thick deodar wood strip and screws etc	P.Sft	42.00	1,127.21	47,342.82
Total Amount (A) =					8,230,864.48
<b>(B) CIVIL WORK - FINISHING</b>					
1	<b>Floor Tile 60cm x 120 cm</b>				
	Providing & Laying Full Body Porcelain Tile in Flooring or Facing of Approved Design Set in Gry Cement Motor 1:2 or of 3/4" thickness I/C Washing & Joints With White Cement Slurry Using Colour Pigment for matching complete as per Specification (Ch 8, Item 28 (iiv))				
	24"x48"x5/16"	P.Sft	206.47	651.48	134,511.08
2	<b>White Vinyl Emulsion Paint</b>				
	Preparing the surface and painting with plastic emulsion paint of approved make I/c rubbing the surface with sand Paper, filling the voids with chalk/plaster of paris and then painting etc. complete. (Ch 9, Item 40)				
A	First Coat	P.Sft	4,056.47	38.71	157,025.95
B	2nd & subsequent coat.	P.Sft	4,056.47	22.66	91,919.61
3	<b>Wall Matt Tile</b>				
	Laying floor of approved with glazed tiles 1/4" thick dado of approved color & size jointing in white cement and laid over 1:2 cement sand mortar 3/4" thick including grouting with matching color and finishing (Ch 8, Item 24)				
i	Wall Matt Tile 15cm x 90cm	P.Sft	300.63	389.36	117,053.30
ii	Wall Matt Tile 60cm x 120cm	P.sft	770.00	389.36	299,807.20
4	<b>Weather Shield - Off White</b>				

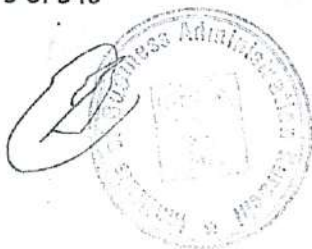


A	Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make. (Ch 9, Item 38A)	P.Sft	5,592.50	39.38	220,232.65
B	2nd & subsequent coat.	P.Sft	5,592.50	23.60	131,983.00
5	<b><u>Weather Shield - Mountain Mist</u></b>				
A	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. (Ch 9, Item 38A)	P.Sft	1,928.02	39.38	75,925.43
B	2nd & subsequent coat.	P.Sft	1,928.02	23.60	45,501.27
6	<b><u>MS Grill</u></b>				
	Supplying & fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3 coats etc. complete (weight not to be less than 3.7 Lbs./Sq. Foot of finished grill). (Ch 17, Item 26)	P.Sft	158.06	1,124.10	177,675.25
7	<b><u>MS Door (Guardroom)</u></b>				
	Providing and fixing G.I frames /Choukhats of size 7" x 2" or 4 1/2" x 3" for door using 20 gauge G.I sheet i/c welded hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also i/c all carriage, tools and plants used in making and fixing. (Ch 17, Item 28)	P.Rft	42.00	690.67	29,008.14
8	<b><u>MS Main Gate</u></b>				
	Supplying and fixing special heavy type steel doors for look-ups within angle iron frame of 2- 1/2" to 2- 1/2" x 3/8" size and shutter of 2" x 2" x 3/8" with 1" diameter M.S bars placed @ 4" center to center with a separate locking box having size of 12" x 12" of M. steel sheet embedded in masonry with proper locking arrangement as per approved design including cost of erection of steel gate and fixing in masonry wall in cement concrete 1: 2: 4 etc. complete, as per instructions of Engineer Incharge. (Ch 17, Item 27)	P.Sft	273.00	4,300.68	1,174,085.64
9	<b><u>Pre-cast Rain Water spouts</u></b>				
	Providing and fixing reinforced cement concrete spout including fixing in position with top and bottom khuras. Refer Item # 27, Chapter No. 4	Each	8.00	2,023.24	16,185.92



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Total Amount (B) =					2,670,914.43
<b>(C) LANDSCAPE WORK</b>					
<b>1</b>	<b>9"x24" boticina marble (Green Area Sides)</b>				
	Laying Super Botisina, Crème, Badal or Black Marble 12"x12" / 12"x24" fine dressed on the surface without winding set in lime mortar 1:2 including rubbing and polishing of the joints. (Ch 8, Item 28 (v))				
a	3/4" thick marble	Sft	19.88	337.90	6,717.45
<b>2</b>	<b>30"x30" badal marble (for Passage Runway)</b>				
	Laying Super Botisina, Crème, Badal or Black Marble 12"x12" / 12"x24" fine dressed on the surface without winding set in lime mortar 1:2 including rubbing and polishing of the joints. (Ch 8, Item 28)				
b	1" thick marble	Sft	115.00	378.19	43,491.85
<b>3</b>	<b>Ceramic Tile (12"x12")</b>				
	Laying floors of approved coloured glazed tiles 1/4" thick floor of approved color & size jointing in white cement and laid over 1:2 cement sand mortar 3/4" thick including grouting with matching color and finishing. (Ch 8, Item 25)	Sft	38.50	325.40	12,527.90
<b>4</b>	<b>Kerb Stone (Highway Works)</b>				
	Providing & fixing Precast Edge Block 3750 PSI Industrial Made Size 6 inches thick x 12 inches long x 18 inches high including the cost of Cartage, excavation, form Work for haunching, 1450 PSI lean concrete, 2250 PSI concrete for haunching, 1:4 cement sand mortar. (Ch Misc., Item 14, Page 221)	P.Rft	46.00	678.38	31,205.48
<b>5</b>	<b>Non-Skid Tile - Light Grey (Bench Side Floor)</b>				
	Providing & Laying Full Body Porcelain Tile in Flooring or Facing of Approved Design Set in Gry Cement Motor 1:2 or of 3/4" thickness I/C Washing & Joints With White Cement Slurry Using Colour Pigment for matching complete as per Specification (Ch 8, Item 28 (iiv))				
viii-b)	18"x18"x5/16" flooring	P.Sft	80.00	373.80	29,904.00
Total Amount (C) =					123,846.68
TOTAL AMOUNT OF SCHEDULED ITEMS CSR 2024 (CIVIL WORKS) (A+B+C)					11,025,625.60



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PREMIUM/REBATE ( <u>31</u> %)	<u>3417,943.25</u>
TOTAL AMOUNT OF SCHEDULED BASED ITEMS CSR 2024 (INCLUDING PREMIUM/REBATE) (A+B+C)	<u>7607,681.25</u>

**NON-SCHEDULE ITEMS (BASED ON PREVAILING MARKET RATES)**

Sr No	Description	Units	Qty	Rate	Amount
<b>(D) CIVIL WORK - Finishing</b>					
1	<b>Minalite Glossy Taupe Windsor Wall Tile</b> Provided and lay Minalite Glossy Taupe Windsor Wall Tile Floor comprising 1/2" thick 1:4 cement sand mortar bed under-coat, and best quality Tiles of approved colour ceramic tiles and filling of joints using imported epoxy grout with matching colour, fixing of ss beading as approved, complete in all respect, as per Specifications, and as per sample as approved by the Engineer.	Sft	57.75	<u>300/-</u>	<u>17,325/-</u>
2	<b>UPVC Windows</b> Providing and fixing all types of glazed UPVC windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc	Sft	158.06	<u>1850/-</u>	<u>292,411/-</u>
3	<b>Aluminium Beams</b> 1 1/2"x3" ss anodizing aluminum beam, prime steel Or equivalent as per approved pattern And color by architect / engineer or client.	Sft	64.00	<u>1000/-</u>	<u>64,000/-</u>
4	<b>Letters &amp; Logo</b> CNC cutting stainless steel front lit Approved by the employer/ consultant to the entire Satisfaction of the engineer in charge.	Nos	16.00	<u>4500/-</u>	<u>72,000/-</u>
5	<b>Terrazzo Flooring</b> 1/2" th. Terrazzo in gray cement with 3/8"x1 1/2" black Marble dividing strips.	Sft	531.00	<u>480/-</u>	<u>254,880/-</u>

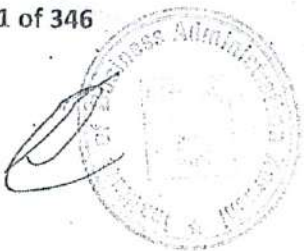
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6	<b>Terrazzo Skirting</b>				
	Terrazo skirting of 4"x12" in gray cement .	Sft	58.41	486/-	28,036-8
7	<b>Roof Screeding</b>				
	Providing and laying 3" to 4" thick (avg) cement concrete screed of 1:2:4 ratio, using 3000 psi concrete, laid in panels at any floor or height, including form work, vibrating, curing etc. Complete in all respects and conforming to the requirements of drawings, specifications and to the entire satisfaction of the Engineer.	Sft	1,200.72	386/-	456,273-6
8	<b>Water Proofing</b>				
	Providing & Laying elastomeric cementitious waterproofing and protective coating of Expacote Rubber-flex <b>two component acrylic polymer modified cementitious coating</b> manufactured by M/s FOSPAK or equivalent confirming to ASTM D412 & ASTM D4541:1989 in two coats to achieve a total dry film thickness of 1.25 - 2.00 mm as per manufacturer's recommendation with experiences applicator.	P.Sft	1,200.72	75/-	90,054/-
Total Amount (D) =					1922,979.6

**(E) LANDSCAPE WORK**

1	<b>Green Grass (Dhaka Grass) with Manure &amp; Sweet earth</b>				
	Supply & Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and become green and is fir for mowing including the cost of sweet earth spread equally over which spread decayed sewage manure from approve source including all leads and lift.	Sft	233.28	55/-	12,859/-
2	<b>Tree</b>				



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	1) Preparing Circular Tree Pit of dia 5' and depth 4' wherever required by excavating into any strata. 2) Application of antitermite treatment @ 20 ml of Chloropyriphos per plant on the walls & base of the pit. 3) Filling the pit with compost. (ratio 1 animal manure : 3 sweet earth). 4) Flooding with water at least 20 ltr. 5) Per tree, dressing including removal of rubbish & surplus earth if any with all leads & lifts, planting and staking (with a bamboo dipped in charcoal) in full and final location including all locations specified. 6) Maintenance of trees for a period of 3 months from the date of plantation, replacement of any dead & unhealthy tree in this period. 7) Supply & spraying of insecticides as required.				
i)	Bonsai Tree	Nos	3	1500/-	4500/-
Total Amount (E)=					57,859/-

**(F) ELECTRICAL WORKS**

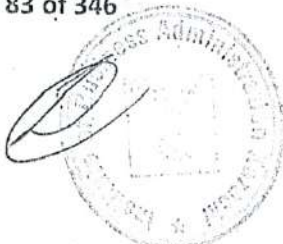
Sr No	Description	Units	Qty	Rate	Amount
1	<b>Sub Distribution Board</b>				
i	Providing and fixing of Sub Distribution Board/DB complete in all respect as per drawing/as approved by the Engineer incharge.	Nos.	1.00	22500/-	22500/-
2	<b>WIRING AND CONDUITING</b>				
2.01	<b>Circuit</b>				
	Supply, installation and commissioning of light circuit wiring, from MCB in DB to Switch Board to be wired with 2x2.5mm sq. PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, newage, fast, G.M, Ali. including cost of 25mm dia. heavy duty PVC conduit make Beta, Popular, Turk Plast or approved equivalent installed on roof slab, above false ceiling, or concealed in walls, or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires and 2.5 mm sq. PVC insulated wire of color green as circuit protective conductor (CPC), complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 25mm dia. PVC conduit.	Nos	5.00	1500/-	7500/-
2.02	<b>Wiring from switch to Light point</b>				

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	Wiring from switch to first light point with 2 x 1.5mm sq. PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, Newage, Fast, G.M, Ali + 1.5 mm sq. PVC insulated wire of color green as circuit protective conductor (CPC), in 25 mm dia PVC conduit make Beta, Popular, Turk Plast or approved equivalent installed on RCC slab, above false ceiling, recessed in wall, columns slabs or above light carrier including all PVC conduit accessories, junction boxes, pull boxes, steel pull wires, ceiling rose, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint, M.S. box shall be of the same size as that of 1, 2 upto 8 gang Approved switches including cost of gang type light switch 10 amps with all necessary accessories as per the specifications and drawings and approval by the Engineer.	Nos	12.00	10,000/-	129,000/-
2.03	<b>Wiring from point to point</b>				
	Wiring and conduiting from light point to point with 2 x 1.5 mm sq. PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd., newage, fast, G.M, Ali + 1.5 mm sq. PVC insulated wire of color green as circuit protective conductor (CPC), in 25 mm. dia PVC conduit including all necessary accessories such as connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. as per the specifications and drawings and approval by the Engineer.	Nos	12.00	4200/-	50400/-
2.04	<b>Wiring of 1-3 Flat Pin 20 Amps Switch Socket for AC</b>				
	Wiring and fixing of 1-3 pin 20 Amps combined switch socket away from switch board and wired with 3 x 1 core 4 mm sq. P+N+CPC, Cu/PVC wires 300/500 Volt grade, in and including cost of 25mm dia. heavy duty PVC conduit, recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-20 Amps switch socket, including cost of 20 Amps 3 pin combined switch socket with porcelain base and plug, make CLIPSAL, LEGRAND, ABB or as approved by engineer incharge complete in all respect. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit. Pakistan cable, newage, fast, G.M, Ali	Nos	1.00	20,000/-	20,000/-
2.05	<b>Wiring of 1 Nos. 3 Pin 13 Amps Switch Socket</b>				



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	Same as item No. 2.05 mentioned above but wiring of 1 Nos. 3 pin 13 Amp universal switch socket wiring from Distribution Board (DB) as shown on drawings, including cost of 1 Nos. universal 13 Amps switch sockets back box and face plats, complete in all respects. Pakistan cable, newage, fast, G.M, Ali	Nos	1.00	25880/-	25880/-
2.06	<b>Wiring of 1 Nos. 3 Pin 5 Amps Switch Socket</b>				
	Same as item No. 2.01 mentioned above but wiring of 1 Nos. 3 pin 5 Amp Round Pin switch socket loop wiring from 3 pin 13 Amp universal switch socket installed as shown on drawings, including cost of 1 Nos. universal 13 Amps switch sockets back box and face plats, complete in all respect. Pakistan cable, newage, fast, G.M, Ali	Nos	3.00	8000/-	24000/-
2.07	<b>Ceiling Fan Point</b>				
	Same as per Item No. 4.02 mentioned above but wiring of ceiling fan point including cost of M. S. fan hook box circular type having M. S. 5/8" dia. hook to be fixed on RCC slab, M. S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint, M.S box shall be of the same size as that of Electronic Dimmer and 1 gang switch from one of the Approved MAKE complete in all respects. Pakistan cable, newage, fast, G.M, Ali	Nos	3.00	8000/-	24000/-
2.80	<b>Lighting (As Per Architect)</b>				
	Supply at site, Installation, testing and commissioning of following light fittings, ceiling, wall mounted, recessed type, etc. complete with electronic blast, lamps, lamp holders, LED drivers, power factor correction capacitor, internal wiring, connecting cables, earthing terminals, transformers, hanging arrangements where required complete in all respects, fittings shall be duly approved by Architect / Engineer.				
i	Led spot light/Ceiling mounted light 12W-20W or equivalent as per architect. (Philips)	Nos.	7.00	4500/-	31,500/-
ii	Led water proof light 12W-20W or equivalent as per architect. (Philips)	Nos.	12.00	5500/-	66000/-
2.90	<b>Ceiling Fans</b>				
	Supply, installation and commissioning of ceiling fans of following sizes steel body, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect of Approved MAKE. (G.F.C, Pak fan. Super asia, Millat, Royal)				
i	Delux 56" sweep.	Nos.	3.00	15000/-	45000/-
2.10	<b>AC UNIT</b>				



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	Supply, installation Testing & Commissioning of the following as per drawings and specification. split type reversible Air-Conditioning units, wall mounted complete with condensing units,refrigerant piping, insulation, refrigerant Chage, thermostat controls between indoor/out door units power wiring conducting complete in all respect. Note: wiring between indoor and outdoor unit should be flexible 3c 4mm2.(Gree,Haier,Pel,Orient,kenwood)				
i	Wall mounted reversable Split type Air Conditioner 1.5 Ton with remote controlled and nano shield air filter.capacity 19,500 BTU/hr.power supply: 220-240V/1-phase/50HZ.	Nos.	1.00	18500/-	18500/-
2.11	<b>L.V Power Cables</b>				
	Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade installed in pre laid pipes / conduit or in trenches as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.				
2.12	<b>4 Core Cable PVC/PVC</b>				
i	2 core 10 mm Sq (Single Phase DB)	Rft	50.00	380/-	19000/-
2.13	<b>Circuit Protective Conductor (CPC)</b>				
i	1 core 6mm sq. PVC insulated colour Green/Yellow	Rft	55.00	195/-	10725/-
2.14	<b>P.V.C. Conduit and Accessories</b>				
	Supply at site of PVC conduit heavy duty make, Beta,Popular,Türk Plast to be installed on RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.				
i	2" dia. PVC conduit to pull electric cable.	Rft	100.00	25/-	2500/-
2.15	<b>FIRE ALARM &amp; DETECTION SYSTEM</b>				
	Fire Alarm Panel & Devices				



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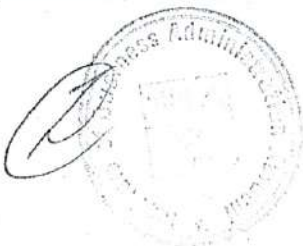
5.1	Supply, installation, testing and commissioning of wiring of smoke sensors, heat sensors and manual stations, bell buzzers with 2 core 1.5mmsq. twisted Fire resistant cable, manufactured by Beldon or any approved by the engineer incharge, in 1" dia PVC conduit make Beta, Popular, Turk Plast or Approved equivalent, complete with cables, conduits and other necessary installation accessories, as per the specifications and drawings and approval by the Engineer.	Nos	2.00	19,000/-	20,000/-
5.2	Supply, installation, testing and commissioning of microprocessor based 2 Zone Compact Control Panel Intelligent (Conventional ) Fire Alarm Panel with built-in power supply unit and NICAD battery backup, supervisory buzzer, alarm cancelling device, complete in all respects, as per the specifications and drawings and to the satisfaction of the Engineer make Honey Well Notifier Inertia / GENT or Bentel Italy.	Nos.	1.00	110,000/-	110,000/-
5.3	Supply, installation, testing and commissioning of Optical type Conventional Smoke Sensor with light indication Protection against false alarms , complete in all respects, as per the specifications and drawings and approval by the Engineer. make Honey Well Notifier Inertia / GENT or Bentel Italy	Nos	2.00	7000/-	14000/-
5.4	Supply, installation, testing and commissioning of Conventional fire alarm Manual Pull Station, Protection category as per EN 60529 IP 52 Environmental class as per EN 54 T2 II complete in all respects, as per the specifications and drawings and to the satisfaction of the Engineer. make Honey Well Notifier Inertia / GENT or Bentel Italy	Nos	1.00	18000/-	18000/-
5.5	Supply, installation, testing and commissioning of fire alarm Electronic Bell/Sounder with Conventional output module, 6" dia gong and operation at 24V dc, with built in fault isolators and integral strobe, as per the specifications and drawings and approval by the Engineer. Make Honey Well Notifier Inertia / GENT or Bentel Italy	Nos	1.00	15000/-	15000/-
5.6	Fire Extinguisher Supply & Fixing Of Dry Chemical Powder 6Kg Fire Extinguisher With Strong Bracket Complete In all respect..Hasen Hasib	Nos	1.00	16000/-	16000/-
6.00	UPS (5KVA & 100AH & Power Kit)				



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6.1	Supply, installation and Commissioning of Baykee SL 5000VA/4000W, Line interactive, Pure Sinewave, Transfer Time :2~6ms, Wide Input Range 145-275VAC, Built-in Super Charger 5A/10A, 48 VDC, LCD (Display), Tower, 230V External Battery enclosure with power kit consisting of 4 x 12V-100AH AGM VRLA batteries Approx. 1 hour backup time at 80% load, 25c External Battery enclosure with power kit including cable, conduit, fitting installation and all related accessories complete in all respects complete job made by BAYKEE	Nos	1.00	87500/-	87500/-
6.00	<b>CCTV SYSTEM</b>				
1	<b>Wiring for CCTV IP Cameras</b>				
	Wiring for each CCTV IP Cameras to be installed on walls / slabs or on false ceiling with 4 pair Cat. 6, UTP cable with pure copper conductor PVC insulated PVC sheathed manufactured by M/s. Molex, Clipsal and 3M in and including cost of 1" dia PVC conduit heavy duty make Beta, Popular, Turk Plast, recessed in walls, columns, slabs, floors or above false ceiling with all necessary fixing accessories as required as per site condition, including cost of all PVC conduit accessories, pull boxes, steel pull wires, M.S junction boxes 16 SWG, of size 4"x4" with 2 coats of powder coating of orange colour, including cost of all necessary accessories and materials, complete in all respects.	Nos	2.00	5500/-	11000/-
2	<b>Fixed IR Camera</b>				
	Supply at site, installation, testing and commissioning of IP66-rated, HDTV, day/night, fixed network camera with varifocal 3-8 mm DC-iris lens and remote back focus. Multiple, individually configurable H.264 and Motion JPEG streams; max HDTV 1080p or 2MP resolution at 30 fps. WDR. Video motion detection and active tampering alarm. Two-way audio. SD/SDHC memory card slot for optional local video storage. Operation in -30°C to +50°C. Model AXIS P1344-E or approved equivalent, including the cost of 850 nm semi-covert IR LED Illuminator for use with the Axis Day/Night network cameras. Fixed angle 50 degrees. Range 14 meters. Input: Power over Ethernet(PoE). Consumption : 10 W AXIS T90A01 IR-LED 50 DEG or approved equivalent.	No	8.00	30000/-	240,000/-
3	<b>Network Video Recorder</b>				



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i	Supply at site, installation, testing and commissioning of NVR 32 Channel 1080p Preview capability. DVD writer. 2 x USB 2.0. One E- SATA. Embedded Linux Operating system. Jog Shuttle, Function Keypad, PTZ Controls, Power Switch Extender, LCM Display. Supports 8 SATA HDD. RS 485 & RS 232 Communication Ports. 1x - 10/100/1000 Base-T Ethernet, RJ-45. Operating Interface USB mouse, USB PC keyboard, Remote controller. Operating Temperature 32 ° to 104 °F. Remote DVR connectivity are Web Viewer (All Reknowned Browsers), Remote Console Java Viewer, PDAViewer, iPhone and Android Support. Software PTZ Control Zoom-in/Zoom-out, Focus- in/Focus-out, Direction, AutoPan. Power supply; 100-240 VAC 50/60 Hz. Model iSmart D9132NH or Approved Equivalent including cost of all necessary accessories and materials Like HDD, complete in all respects.	Nos.	1.00	50,000/-	50,000/-
4	<b>LED Type Colour Monitors</b> Supply at site, installation, testing and commissioning of 32 inch LED type colour monitors. Model Samsung or Approved equivalent, including cost of all necessary accessories and materials, complete in all respects.	Nos	1.00	48000/-	48000/-
<b>Total Amount (F)=</b>					2,338,628/-

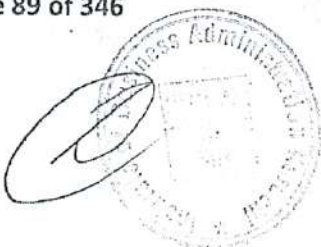
**(G) PLUMBING WORKS**

Sr No	Description	Units	Qty	Rate	Amount
1	<b>PPRC Piping</b>				
	Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for cold, hot and hot water return water as per DIN 8077- 8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) concealed on walls or floor, walls cutting for pipelines, complete in all respect as per specifications and drawings as well as directed by the Engineer. (Beta, Turk Plast, Popular)				
i	25 mm dia	Rft.	44.79	300/-	13,437/-
ii	32 mm dia	Rft.	48.96	420/-	20,563.2/-
2	<b>GATE / BALL VALVE</b>				

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	Providing and installing gate/ball valves of following nominal dia, of approved equivalent make, including jointing, fitting, painting, testing, complete in all respects to match with following PPR pipe diameters. (Beta, Adamjee, Popular)				
i	25 mm dia	Each	4.00	7500/-	10,000/-
ii	32 mm dia	Each	2.00	3800/-	7600/-
<b>3</b>	<b>EXTERNAL SEWERAGE, VENTS &amp; ROOF DRAINAGE</b>				
	Supply and lay UPVC pipes of Pak Arab/ Steelex (SDR-41), Nikasi for soil, waste and vent system including specials such as tees, bends, plugs, reducers, etc. with solvent cement jointing / rubber ring push fit jointing method including cutting holes in masonry or concrete in walls, floor and in slab, making good the same, complete in all respect as per drawing, specification and as directed by the Engineer.				
i	3 Inch dia Pipe	Rft.	250.20	660/-	165,132/-
<b>5</b>	<b>MULTI-FLOOR TRAP</b>				
i	Providing and fixing 3" dia multi floor trap and cover of approved make including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer.	Nos.	2.00	2200/-	4400/-
<b>6</b>	<b>MS DRAIN</b>				
i	Providing and fixing 9" wide Ms Steel grating outer Frame angle Iron 1.5"x 1.5"x3/8" and inner side C/C 3" MS Square Bar 1/2" by 1/2" dia only including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer.	Rft.	82.40	1850/-	152,440/-
<b>7</b>	<b>KHURAAS</b>				
i	Khurras : Make 2'x2' Khurras on roof 2'x2' for drainage of rain water made in P.C.C. 1:2:4 complete in all respects as per drawing, specifications, and or as directed by the Engineer	Nos.	1.00	15000/-	15000/-
<b>Total Amount (G) =</b>					<b>428,040.2</b>
	<p>Note:</p> <p>It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of all necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.</p>				



*[Signature]*  
M.A. Construction

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SS TOTAL AMOUNT OF A+B+C+D+E+F+G	12,297,326.05
15 % SRB ON GROSS TOTAL AMOUNT	1,844,598.9
ND TOTAL AMOUNT OF A+B+C+D+E+F+G	14,141,924.95

Grand Total Amount of A+B+C+D+E+F+G in Words:

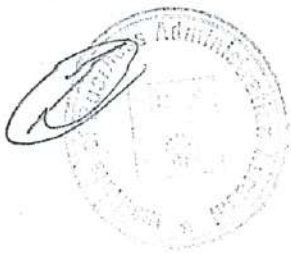
Rupees: Fourteen Million, one hundred forty one thousand,  
Nin Hundred twenty four only & only five paise



*Construction*  
*Prakash*

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# DRAWINGS



  
**M.G. Construction**  
Propriétaire  
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