

INSTITUTE OF BUSINESS ADMINISTRATION IBA KARACHI								
RECREATIONAL AREA AT AMAN TOWER KARACHI								
SUMMARY OF COST								
S.NO	DESCRIPTION				PKR	AMOUNT		
1	MS STRUCTURE				PKR			
2	FINISHING WORKS CIVIL				PKR			
	TOTAL							
3	ELECTRICAL WORKS				PKR			
a)	ELECTRICAL WIRING							
b)	ELECTRICAL SWITCHES							
c)	ELECTRICAL LIGHT FIXTURES							
d)	IT							
e)	HVAC APPLIANCES							
f)	MAIN PANEL & DB'S							
	TOTAL FOR ELECTRICAL & IT							
	TOTAL ESTIMATED COST OF PROJECT							
	ADD 15 % SRB							
	TOTAL ESTIMATED COST							
	SAY					MILLION		

INSTITUTE OF BUSINESS ADMINISTRATION (IBA), CITY CAMPUS, KARACHI					
RECREATIONAL SPACE FOR STUDENTS AT AMAN TOWER CITY CAMPUS					
BILL OF QUANTITIES (BOQ)					
SUB HEAD -1 BILL OF QUANTITIES FOR MS FRAME STRUCTURE					
S. NO.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
1	STRUCTURAL STEEL				
	Providing, Supplying,Fabrication , welding, Jointing, Bolting & Erecting in position MS Building Frame Structure comprising of I Beam, Channel, HSS,Chequred Plates, Equal angles, Base Plate, MS Tube etc Complete as per drawing, design and specification complete including 2(Two) Coat red Oxide Primer and two coat Enamel Paint by ICI,Jotun or equivalent & two coats Enamel Paint in approved shade. The rate is inclusive of all type of drilling cutting pockets in existing structure and making good, cost of material, tools & plants, Scaffolding & Working platform, safety & health arrangements etc complete as per specification. The rate is inclusive of all taxes cartage, loading, unloading & lifting etc complete.	27,650	Kg		-
	NB : With out adequate safety arrangement , no work at site shall be allowed.				
2	ANCHOR BOLTS (RESIN ANCHORS)				
	Providing, ,drilling, fixing & testing in position Chemical Resin Anchor Index , Fischer or equivalent Brand with Grade 5.8 , cleaning and filling hole with Concrete Epoxy Index MSPRG 290 or Equivalent as per drawing, design & specification. The Contractor shall submit the Sample with data sheet of the product and 5 % bolts shall be tested at site (For which no additional payment shall be made). The anchor bolts shall be fixed by the authorized fixer of the supplier.				
a	M16X190	300	NOS		-
3	COMPOSITE METAL DECK				
	Providing, laying & installing in position Composite Metal deck 18 SWG (1.2mm thick) 2" deep 900 cover width,225mm pitch, 105 mm trough and 67mm crown width, Yield strength 280 N/Sqmm with hot dip galvanizing on both sides minimum zinc coating mass on both sides total 275g/sqm as per profile shown on drawing , Tata Comfor 46 or equivalent confirming to BS EN 10346, with 1 no MS stud deformed bar 1 No welded/tied in each trough complete as per drawing and design . Profile Cross sectional area is 1534 Sqmm/M and Unit weight of Profile is 0.13 KN/Sq M (1.23 Kg /Sqft). The cost of stud bar shall be paid separately . Note : The Contractor shall submit sample with data sheet before execution.	2800	Kg		-
4	STUD BAR				
	Providing, cutting and fixing in position One # 3 deformed bar in each rib as per drawing, design and specification complete.	600	Kg		-
5	BRC MESH				
	Providing, laying and fixing in position of BRC Mesh Confirming to BS 4483 Type D83) Pitch 150mm x150mm wire size 6mm per sq m weight 2.96 Kg (0.275 Kg / sqft) over Metal Deck as per drawing, design and spec. complete .	650	KG		-
6	CONCRETE				
	Providing, mixing, laying and leveling in position average 2" thick Cocrete 1:1-1/2:3 Concrete having minimum cylindrical strength at 28 days 3000 PSI including curing etc complete as per drawing, design and specification . Average Concrete for 110mm thick deck slab is 0.091 Cu m/ Sq m (0.3 Cu ft /Sqft) of Deck Slab.	750	Cuft		-

7	NON - SHRIENKAGE GROUTING				
	Providing and laying non shrinkage Concrete grout average 2" thick under Column base including form work levelling, grading & curing etc complete as per manufacturer recommendation minimum cylindrical strength at 28days as per drawing, design and specification complete. Note : The Contractor shall submit data sheet of the material to be used before execution along with methodology and the concrete shall be laid by the professional /trained person.	7	CU FT		-
8	SAND WITCH PANEL				
	Proving, supplying and fixing PIR (Polyisocyanurate)Profile 45/250 Rigid Cellular Sand Wich Panel Sheets with core thickness 75~ 80mm confirming to ISO DIN 4590, density 42 Kg / Cu M +/- 2 Kg/CuM with both facing sides 0.5 mm thick AZ Steel Sheet or Pre coated steel sheet, having compressive strength minimum 0.14 MPa confirming to BS EN 826 with interlocking jointing system in compliance with complete with interior exterior ribs over MS Steel framing with side and end laps fixed with 5.5mm dia self drilling type fastner complete as per drawing & specification.	1425	Sqft		-
	TOTAL FOR SECTION 1 MS FRAME STRUCTURE				-
9	BLOCK MASONRY (SOLID)				
	Providing & laying Fair Face Reinforced Block Masonary using Fair face Block 390mm x140mm x190mm in natural colour by Envicret / Banu Mukhtar or equivalent minimum compressive strength 7 KN/MM Sq or 1000 PSI at 28 days,USING 1:4 CSM with water repellent additive as per manufacturer's recommendation.Block should be uniform in colour laid as per drawing, design and specification. Note : The contractor shall submit the sample of the block and additive with data sheet before execution of work.the rate is inclusive of all type of material, labour tools & plants scaffolding etc complete	550	CFT		-
9 (A)	BLOCK MASONRY (HOLLOW)				
	Providing & laying Fair Face Reinforced Hollow Block Masonary using Fair face Block 390mm x140mm x190mm in natural colour by Envicret / Banu Mukhtar or equivalent minimum compressive strength 4.5 KN/mm Sq or 650 PSI at 28 days,USING 1:4 CSM with water repellent additive as per manufacturer's recommendation.Block should be uniform in colour laid as per drawing, design and specification. Note : The contractor shall submit the sample of the block and additive with data sheet before execution of work.the rate is inclusive of all type of material, labour tools & plants scaffolding etc complete	475	CFT		-
10	PLASTER RENDERING				
	Providing and laying 1:4 Cement Sand plaster 1/2" (12mm) thick over internal block masonry wall with using fibre/wire mesh at MS -block joints to avoid surface cracks with levelling, curing etc complete as per drawing design and specification. The cost is including of all material, labour, tools & plants.	1600	SFT		-
11	PROCELEAN FLOOR TILES				
	Providing and laying full body(100 % Procelean) 10 ~12mm thick Matt/ Textured heavy duty, anti slip floor procelean tiles minimum size 144 sq. in or as per drg, design and specification laid with stile or equivalent adhesive bond as per dirction in approved shade and design complete as per specification. the rate is inclusive of all material, labour, tools & plants complete . Note : The Contractor shall submit sample with data sheet of Tile and adhesive bond for approval.	2600	SFT		-

12	VINYL FLOORING				
	Providing and laying Rigid Core Vinyl flooring (SPC/WPC) suitable for heavy traffic area size 12"x12" or 18"x18" or as approved by the Engineer min. thickness 3.2mm with wearing thickness 0.5mm ~1.0mm with UV coating and slip resistant in approved shade and colour fixed with approved adhesive as per manufacturer's recommendation complete. The rate is inclusive of all type of material, labour and tools and plants.	650	SFT		-
13	ALUMINUM GLAZED WINDOWS & VENTILATORS				
	Providing and laying glazed Anodized Aluminum sliding windows / ventilation dulux model section thickness min 1.6mm with Aluminum fly net panels and 5mm thick tinted local glass ghani / Ganj Glass or equivalent with PDM rubber gasket as per drawing, design and specification complete.	250	SFT		-
13a	ALUMINUM GLAZED OPENABLE DOOR				
	Providing and laying glazed Anodized Aluminum Openable doors with hydraulic door closed dulux model section thickness min 1.6mm with Aluminum fly net panels and 6mm thick tinted local glass ghani / Ganj Glass or equivalent with PDM rubber gasket incl. hydraulic floor mounted door closer as per drawing, design and specification complete.	160	SFT		-
13b	UPVC OPENABLE DOOR				
	Providing and laying UPVC OPENABLE DOOR of 5 chamber design profile Royal model wall section thickness 5mm with TPV gasket and special water drainage slope with heat insulation upto 1.432 W/ m2 and sound insulation upto 60 db in approve make and shade. The rate is inclusive of hinges, door handle lock & stopper complete. The doors shall be fabricated and fitted with experienced fabricator and approved manufacturer as per drawing, design and specification complete. Note : The contractor shall submit the sample /mock up before erection for approval.	32	SFT		-
14	FALSE CEILING				
	Providing and installing in position Gypsum Board Ceiling 8'x4' any floor or height in straight or curved shape as shown on the drawing including complete hanging arrangement with hanging rod including making of openings for light fitting and A.C grills with 3-coats of approved quality plastic emulsion paint, complete in all respects.	2400	SFT		-
15	MS STAIR & BALCONY/ PASSAGE RAILING WORK				
	Providing , fabricating and installing MS railing 42 " high comprising of vertical and horizontal hollow square bar 2"x2" x 1/8" vertical post anchored/ welded at 6'C/C and middle bars 1"x1" 16 SWG 4"C/C welded over 1-1/2" wide top& bottom strips 3" high from surface and top rail 50mm dia round pipe SS 340 Grade 16SWG Pipe as per drawing design & specification. The cost is inclusive of 2 Coat Enamel paint over two coat anti corrosive primer of ICI or Jutun in approved shade complete as per direction.	1050	Sft		-
16	WOODEN RIB /RAFTER				
	Providing, installation in position wooden Rib 1-1/2"x3" of seasoned Construction grade 1st class best quality wood free of Knots and Antitermite treated wood as per drawing & designed fastened with screw as per drawing & specification including approved surface treatment including paint complete.	600	RFT		-
17	KIOSK				
	Providing, installation in position wooden Kisok 10'-0"x 8'-0"x 8'-0" comprising of soft wood frame and laminated fine quality MDF board 20mm thick with PVC edges, having provision for shelves, drawers, glass panels upto 8" height complete as per drawing /sketch photo attached paint and Antitermite treatment and floor as per drawing & specification.	6	UNITS		-

18	PAINT				
	Providing and applying 3 coats of Plastic emulsion paint" JOTUN ", "ICI", or "Burger" approved including shade on ceiling and internal walls over one primer coat after making good any unevenness by filling with good quality of turpentine oil, zinc etc., to surface of ceiling and walls and etc. complete in all respects and colour as specified by the Architect. respects and to the direction of the Engineer.	1600	Sft		-
19	FIXING GRANITE ON COLUMNS & WALLS				
	Fixing on Existing Columns & Walls 17mm thick granite available at site by using mechanical anchor in position true plumb and alignment . The rate is inclusive of making sizing, polishing etc and alltype of labour, tools & plants complete.	5500	Sft		-
20	WASTE WATER DRAINAGE				
	Providing & laying 3" dia UPVC pipe including all fittings and fixture Steelex, Pak Arab pipes including, making holes to existing walls, clamping of pipe , excavation and making connection to existing man hole complete as per design & drawing complete as per specification.	LS			
21	TAPE WATER CONNECTION				
	Providing and laying 1" to 3/4" dia hot line and cold line PPRC pipe manufactured by Dadex, minhas etc connection including all fittings & fixtures includingCP brass water mixture connection to each KISOK and kitchen complete as per drawing & design	LS			
23	GAS WORKS				
	Providing and laying gas connection from existing gas line using IIL GI Medium gas pipe with all fittings & fixtures to each KISOK & Kitchen including valves , gas knobs etc complete as per drawing & design and specification	LS			
	TOTAL AMOUNT FOR SUB HEAD - 2 FINISHING WORK				

SUB HEAD -3 BILL OF QUANTITIES FOR ELECTRICAL WORKS					
SECTION-ASUPPLY, INSTALLATION, TESTING & COMMISSIONINGWIRING ACCESSORIES ETC.					
1	Wiring of light circuit from DB to switch, between switches or first light point / directly controlled from DB with single core PVC insulated 2 x 1C - 2.5 sq.mm + 1 x 2.5 sq.mm Cu/PVC wires in 25 mm dia PVC conduit complete in all respect.	32.00	Nos		
2	Wiring from switch to first light point with 2 x 1C - 1.5 sq.mm + 1 x 1.5 sq.mm Cu/PVC wires in 25 mm dia PVC conduit complete in all respect.	50.00	Nos		
3	Same as above from point to point.	95.00	Nos		
4	Wiring of power circuit from DB to first power socket with 2 x 1C-4 sq.mm + 1x 2.5 Sq.mm Cu/PVC wires in 25 mm dia PVC conduit complete in all respect. Normal & UPS	18.00	Nos		
5	Wiring of power circuit from outlet to outlet power socket with 2 x 1C-2.5 sq.mm + 1x 2.5 Sq.mm Cu/PVC wires in 25 mm dia PVC conduit complete in all respect. Normal & UPS	50.00	Nos		
6	Wiring of power circuit from DB to AC - Isolator point and outdoor with 1 x 4C-6 sq.mm + 1x 2.5 Sq.mm Cu/PVC wires in 25 mm dia PVC conduit complete in all respect.	20.00	Nos		
TOTAL AMOUNT OF NON - SCHEDULED BASED ITEM				PKR	-
SECTION-B					
1(a)	Following Switches etc. complete in all respect.				
a	2 - Gang . (1-way)	8.00	Nos		
b	5 - Gang . (1-way)	14.00	Nos		
c	5 - Gang . (1-way) Water Proof cover	10.00	Nos		
1(b)	Following Switches etc. complete in all respect.				
a	13A International Switch socket outlet	16.00	Nos		
b	13A Simplex type - Flat Pin	50.00	Nos		
d	32A Isolator switch for A.C	8.00	Nos		
1(c)	Following sizes M.S Back box for switches and sockets				
a	3x3 M.S Back Box	120.00	Nos		
TOTAL AMOUNT OF NON - SCHEDULED BASED ITEM				PKR	-
SECTION-C					
1	Following LED light fixtures complete in all repsect.				
a	LED 600mmx600mm Panel light - 6500K - min. 36watt	30.00	Nos		
b	LED Down Light Round Surface Type - 6500K - min.10watt	26.00	Nos		
c	LED Down Light Round Ceiling Type - 6500K - min.10watt	24.00	Nos		
e	LED Recessed Surface Mounted Spot Light Type Weather Proof - 3000K - min.12watt	24.00	Nos		
f	LED Hanging Light - 6500K - min.10watt	10.00	Nos		
g	LED Exit Lights -Battery maintained with 2 hours battery backup.	8.00	Nos		
2	Following Fans with complete accessories and hanging arrangements etc. complete in all respect.				
a	600mmx600mm Ceiling Fan	24.00	Nos		
b	Exhaust Fan 8"	4.00	Nos		
TOTAL AMOUNT OF NON - SCHEDULED BASED ITEM				PKR	-

SECTION - D:					
a	Supply, installation, Testing and Commissioning of following including flexible conduits from points to device complete in all respects as per drawings / specs.				
b	Supply, installation, testing, and commissioning of a 24-port UTP patch panel (loaded) with cable management, including all necessary fixing accessories.	2.00	Nos		
c	Supply, installation of Galvanized steel perforated Open Cable Tray for UTP Cat6 from the IT Room. Size: 125mm x 75mm 16 SWG	120.00	Rm		
d	UTP Cat-6 patch Cable 1 Meter	30.00	Nos		
e	UTP Cat-6 patch Cable 3 Meter	40.00	Nos		
f	K6 I/O Modular Jack Cat6	35.00	Nos		
g	Cable Manager Black Front 19" Plastic Body	2.00	Nos		
h	Cat-6, UTP cable for data communications systems to be laid in PVC conduits wall complete in all respects	72.00	Nos		
i	Supply & installation Single & Dual RJ-45 face plate double shutter outlets with Steel Boxes. -Dual Sheets Qty 1 -Single Sheets Qty 15	32.00	Nos		
j	I/O Punching on Patch Panel, Rack Management, End to End Ribbon Tagging, Channel Laying, Accessories required for Box Fixing and channel laying, Gage Nuts, Testing and Fluke Test of network nodes in every outlet box Compliance with ICT instructions.	32.00	Nos		
TOTAL AMOUNT OF NON - SCHEDULED BASED ITEM					-
SECTION - E:					
1	Supply, Installation, Testing and Commissioning of Floor Standing Air Conditioning units, including unloading, lifting, placing and Supply , Installation, Testing & Commissioning of the supporting arrangements for outdoor units in the external area with proper coating of paints to prevent rusting due environment conditions fixing as per site including Gas charging (if required) complete in all respect.				
a	2.0 TR- Stand Floor Unit Inverter	8.00	Nos		
2	Supply and Installation of Split AC Refrigerant Copper Piping & Fittings.				
a	Dia 3/8" & 5/8" (50 Feet = 1 Coil)	8.00	Nos		
3	Following sizes of Core Cutting complete in all respect.				
a	Core Cutting 4" Dia	6.00	Nos		
4	Supply, installation, Testing and commissioning of uPVC including all accessories as per site condition.				
a	25mm dia uPVC conduit.	50.00	Rm		
b	20mm dia uPVC Conduit	30.00	Rm		
TOTAL AMOUNT OF NON - SCHEDULED BASED ITEM					-

SECTION- F :					
1	Following size multicore Cu/PVC/PVC, including lugs, glands, termination kits, etc. complete in all respect as shown on drawing. Cables if layed in cable tray trafoil arrangements shall be made				
a	1 x 4C-10 Sqm Cu/PVC/PVC + 1x1C-16Sq.mm Cu./PVC as ECC from Cafe DB to First Floor (LS) in 32mm dia Class-D conduit with complete installation	45.00	Rm		
b	1 x 4C-10 Sqm Cu/PVC/PVC + 1x1C-16Sq.mm Cu./PVC as ECC from Cafeteria DB to First Floor (RS) in 32mm dia Class-D conduit with complete installation	45.00	Rm		
c	1 x 4C-25 Sqm Cu/PVC/PVC + 1x1C-16Sq.mm Cu./PVC as ECC from Cafetrai DB to Cafe DB in 50mm dia Class-D conduit with complete installation	75.00	Rm		
d	1 x 4C-70 Sqm Cu/PVC/PVC + 1x1C-25Sq.mm Cu./PVC as ECC from Cafetrai DB to Cafe DB in Cable Tray with complete installation	150.00	Rm		
2	Galvanized Cable Tray including Cover of 16 SWG M.S. sheet steel (perforated) having 02 coats of Zinc Chromate paint with cover and hanging arrangement from ceiling / wall as per drawing / site conditions, complete in all respect to the entire satisfaction to Client / Consultant.				
a	100mm x 75mm 16 SWG	150.00	Rm		
3	Supply & Installation of the following distribution boards as per detail shown on drawing complete in all respect.				
a	<p>Supply, Installation, Testing & Commissioning (SITC) of Distribution Box with concealed wall mounted, Locally fabricated in 16 guage, Colour Code:RAL7035, MS Powder Coated, Brass Glands, Tin coated Lugs, Phase indication lights, Tin coated Copper Busbar for Neutral & Earth with channel duct for internal wiring. Glands at Top/Bottom In & Out, CT's, with all related accessories with dust proof enclosure.</p> <p>Main AC Breaker 150A ,TP,MCCB,400V/415V, Qty:01 Cafe DB Breaker 80A, TP, MCCB, 400V/415V, Qty:01 Load Breaker 1Pole, 10A, MCB,220V/230V, Qty:15 Load Breaker 1Pole 16A/20A,MCB,220V/230V, Qty:15 Load Breaker 1Pole 25A/32A,MCB,220V/230V, Qty:8</p> <p>Energy Analyzer: TPM-05 Energy Analyzer CT's: Ficco/Saci or Equivalent MCCB Make: Hager/ABB/Schneider MCB Make: Hager/ABB/Schneider</p>	1.00	Nos.		

b	<p>Supply, Installation, Testing & Commissioning (SITC) of Distribution Box with concealed wall mounted, Locally fabricated in 16 guage, Colour Code:RAL7035, MS Powder Coated, Brass Glands, Tin coated Lugs, Phase indication lights, Tin coated Copper Busbar for Neutral & Earth with channel duct for internal wiring. Glands at Top/Bottom In & Out, CT's, with all related accessories with dust proof enclosure.</p> <p>Cafe DB Breaker 80A, TP, MCCB, 400V/415V, Qty:01 Load Breaker 1Pole, 10A, MCB,220V/230V, Qty:08 Load Breaker 1Pole 16A/20A,MCB,220V/230V, Qty:08 Load Breaker 1Pole 25A/32A,MCB,220V/230V, Qty:03</p> <p>Energy Analyzer: TPM-05 Energy Analyzer CT's: Ficco/Saci or Equivalent MCCB Make: Hager/ABB/Schneider MCB Make: Hager/ABB/Schneider</p>	2.00	Nos.		
c	<p>Supply, Installation, Testing & Commissioning (SITC) of Distribution Box with concealed wall mounted, Locally fabricated in 16 guage, Colour Code:RAL7035, MS Powder Coated, Brass Glands, Tin coated Lugs, Phase indication lights, Tin coated Copper Busbar for Neutral & Earth with channel duct for internal wiring. Glands at Top/Bottom In & Out, CT's, with all related accessories with dust proof enclosure.</p> <p>First Floor (RS) DB Breaker 63A, TP, MCCB, 400V/415V, Qty:01 Load Breaker 1Pole, 10A, MCB,220V/230V, Qty:04 Load Breaker 1Pole 16A/20A,MCB,220V/230V, Qty:04 Load Breaker 1Pole 25A/32A,MCB,220V/230V, Qty:02</p> <p>Energy Analyzer: TPM-05 Energy Analyzer CT's: Ficco/Saci or Equivalent MCCB Make: Hager/ABB/Schneider MCB Make: Hager/ABB/Schneider</p>	2.00	Nos.		
d	<p>Supply, Installation, Testing & Commissioning (SITC) of Distribution Box with concealed wall mounted, Locally fabricated in 16 guage, Colour Code:RAL7035, MS Powder Coated, Brass Glands, Tin coated Lugs, Phase indication lights, Tin coated Copper Busbar for Neutral & Earth with channel duct for internal wiring. Glands at Top/Bottom In & Out, CT's, with all related accessories with dust proof enclosure.</p> <p>First Floor (LS) DB Breaker 63A, TP, MCCB, 400V/415V, Qty:01 Load Breaker 1Pole, 10A, MCB,220V/230V, Qty:04 Load Breaker 1Pole 16A/20A,MCB,220V/230V, Qty:04 Load Breaker 1Pole 25A/32A,MCB,220V/230V, Qty:02</p> <p>Energy Analyzer: TPM-05 Energy Analyzer CT's: Ficco/Saci or Equivalent MCCB Make: Hager/ABB/Schneider MCB Make: Hager/ABB/Schneider</p>	2.00	Nos.		
TOTAL AMOUNT OF NON - SCHEDULED BASED ITEM					-

SECTION - G:					
1	Supply, installation, Testing and Commissioning of following including flexible conduits from points to device complete in all respects as per drawings / specs.				
a	Fire alarm control panel (Addressable - 02 loop)	1.00	Nos		
b	Smoke Detector.	19.00	Nos		
c	Heat Detector.	1.00	Nos		
d	Manual call point (Break glass).	4.00	Nos		
e	Fire alarm sounder.	4.00	Nos		
f	Wiring of complete Fire Alarm System with 2C-1.5 Sq.mm PVC/XLPE (Fire Resistance Cable- 2 hours fire rating) in 25 mm dia PVC Conduit.	380.00	Rm		
	TOTAL AMOUNT OF ELECTRICAL SUB HEAD -G				-
	TOTAL AMOUNT OF ELECTRICAL SUBHEAD				-
	TOTAL AMOUNT OF THE PROJECT WITH OUT SRB				-
	ADD 15 % SRB				-
	TOTAL AMOUNT OF THE PROJECT INCLUDING SRB				-

S.No	Description	Wt	Unit
1	Wide Flange Section WF 10"x5"x12 Kg/Ft	4,800	Kg
2	Channel C10"x3.5"x11.55 Kg/Ft	1500	
3	Channel C3"x1.5"x1.75 Kg/Ft	200	
4	Wide Flange Section WF 6"x3"x4 Kg/F	950	
5	Wide Flange Section WF 8"x4"x7 Kg/Ft	3050	
6	Wide Flange Section WF 12"x5"x15 Kg/Ft	2450	
7	Wide Flange Section WF 16"x6"x29 Kg/Ft	2500	
8	Wide Flange Section WF 8"x4"x8.5 Kg/F	1170	
9	Wide Flange Section WF 14"x6"x24 Kg/Ft	650	
10	Hollow Rectangular Section (HRS 8"x10"x1/4")	770	
11	Hollow Square Section (HRS 8"x8"x3/8")	1000	
12	Hollow Rectangular Section (HRS 6"x8"x3/8")	2250	
13	Hollow Square Section (HSS 4"x4"x1/4")	260	
14	Hollow Square Section (HSS 4"x4"x3/8	1050	
15	Hollow Rectangular Section (HRS 6"x3"x3/16")	1360	
16	Hollow Rectangular Section (HRS 8"x4"x1/4"	750	
17	3/8" Thick M/s plate for Stair Step support	600	
18	1/2" thick Plate	750	
19	1/4" thick Chequered plate for Stair Steps and Landing	1000	
20	Angle L2"x2"x1/4	500	
	TOTAL	27,560	kG
	BOLTS		
	C3 8 Nos 8 each	64	
	C2 3Nos 8 each	24	
	C-1 4Nos 8 each	32	
	C 1 No 8 each	8	
	Bracket Detail D 3x4x2x4	96	
	Bracket Detail B 3x4x2x4	14	
	Bracket Detail A	20	
	Bracket Detail C	16	
		274	Nos