	BILL OF QUANTITIES						
RECARPETING, WIDENING & DEVELOPMENT OF FOOTPATH OF EXISTING CAMPUS ROAD,							
	JAMIA HAMDARD UNIVERSITY						
	DSR 2014				E	STIMATED	
S.No.	(MR ITEM						
	NO)	DESCRIPTION	Qty	UNIT	RATE	AMOUNT(RS.)	
		DESORII HOR	Qty	OIIII		741100111(1101)	
		DSR-2014					
		2017					
	2.6	Earth work in excavation by mechanical					
		means (Hydraulic excavator)/ manual means					
		over areas (exceeding 30cm in depth. 1.5 m					
1		in width as well as 10 sqm on plan) including					
		disposal of excavated earth, lead upto 50m					
		and lift upto 1.5m, disposed earth to be					
		levelled and neatly dressed.					
	2.6.1	All kinds of soil	1160.00	Cum			
	2.8	Earth work in excavation by mechanical					
		means (Hydraulic excavator) / manual means					
		in foundation trenches or drains (not					
		exceeding 1.5 m in width or 10 sqm on plan),					
2		including dressing of sides and ramming of					
		bottoms, lift upto 1.5 m, including getting out					
		the excavated soil and disposal of surplus					
		excavated soil as directed, within a lead of					
		campus in side area					
	2.8.1	All Kinds of Soil	500.00	Cum			
	2.25	Filling available excavated earth (excluding	000.00	Odin			
		rock) in trenches, plinth, sides of foundations					
		etc. in layers not exceeding 20cm in depth,					
		consolidating each deposited layer by					
		ramming and watering, lead up to 50 m and					
3		lift upto 1.5 m. (Note: If required the					
		additional quantity of filling material will be					
		used available material with in campus on the					
		same rates no additional cost will be consider					
		for the lifting and filling the same.	600.00	Cum			
	4.1	Providing and laying in position cement					
_		concrete of specified grade excluding					
4		the cost of centering and shuttering - All work					
		up to plinth level :					
	4.1.5	1:3:6 (1 Cement : 3 coarse sand : 6 graded					
		stone aggregate 20					
		mm nominal size)	48.00	Cum			
	4.3	Centering and shuttering including strutting,					
5		propping etc. and emoval of					
		form work for :					
	4.3.1	Foundations, footings, bases for columns	205.00	Sqm			
	4.4	Providing and laying cement concrete in					
6		kerbs, steps and the like at or near ground level excluding the cost of centering,					
		shuttering and finishing.					
	4.4.1	1:2:4 (1 Cement : 2 coarse sand : 4 graded					
		(· · · · · · · · · · · · · · · · · · ·					
		stone aggregate 20 mm nominal size)	63.00	Cum			



15.58 Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars. 16.1 Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and rerolling the sub grade and disposal of surplus earth with lead upto 50 metres. 16.3 Supplying and stacking at site. 16.3.1 90 mm to 45 mm size stone aggregate 150.00 Cum 16.3.2 63 mm to 45 mm size stone aggregate 505.00 Cum 16.3.9 Good earth 30mm 250.00 Cum 16.4 Laying spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening/binding material to fill up interstices of coarse aggregate,
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requisite type of screening/binding material to
The plan up interstices of coarse aggregate, program to the program of the progra
watering and compacting to the required
density. 905.00 Cum
16.7 Brick edging in full brick width and half brick
11 depth including excavation, refilling and
disposal of surplus earth lead upto 50 metres.
16.7.1 With common burnt clay F.P.S.(non modular)
bricks of class designation 7.5 3800.00 Mtr
16.12 Dry brick pitching half brick thick in drains
12 including supply of bricks and preparing the
surface complete:
16.12.1 With common burnt clay F.P.S.(non
modular) bricks of class designation 7.5 63.00 Sqm
16.31 Providing and applying tack coat using
bitumen emulsion conforming to IS: 8887,
13 using emulsion pressure distributer including
preparing the surface & cleaning with
mechanical broom.
16.31.1 With rapid setting bitumen emulsion
16.31.1.1 On W.B.M / W.M.M. @ 0.4kg/sqm 750.00 Sqm
16.31.1.2 On bituminous surface @ 0.25kg/sqm



	40.50	Duranidia a and fining Class study of single				
	16.50	Providing and fixing Glow study of size				
		100x20 mm made of heavy duty body shall				
		be moulded ASA (Acrylic styrene Acryloretrite				
) or HIP (High impact polystyrene) or ABS				
		having electronically welded micro- prismatic				
		lens with abrasion resistant coating as approved by Engineer in charge. The glow				
		stud shall support a load of 13635 kg tested				
		in accordance with ASTM D4280. The slope				
		of retro- reflective surface shall be 35 (+/-5)				
14		degress to base. The reflective panels on				
'-		both sides with at least 12 cm of reflective				
		area up each side. The luminance intensity				
		should be as per the C42specification and				
		shall be tested as described in ASTM I: 809				
		as recommended in BS: 873 part 4: 1973.				
		The studs shall be fixed to the Road surface				
		using the adhesive conforming to IS, as per				
		procedure recommended by the				
		manufacturer complete and as per direction				
		of Engineer-in-charge.	1800.00	Each		
	16.54	Providing and laying Dense Graded				
		Bituminous Macadam using crushed stone				
		aggregates of specified grading, premixed				
		with bituminous binder and filler, transporting				
		the hot mix to work site by tippers, laying with				
		paver finisher equiped with electronic sensor				
15		to the required grade, level and alignment				
		and rolling with smooth wheeled, vibratory				
		and tandem rollers as per specifications to				
		achieve the desired compaction and density,				
		complete as per specifications and directions				
		of Engineer-in-Charge.				
	16.54.1	50 to 100 mm average compacted thickness				
	10.04.1	with bitumen of grade VG-30 @5%				
		(percentage by weight of total mix) and lime				
		filler @ 2% (percentage by weight of				
		Aggregate) prepared in Batch Type Hot Mix	88.13	Tons		
	16.57	Plant of 100-120 TPH capacity. Providing and laying Bituminous concrete	00.13	10115		
	10.57	, ,				
		using crushed stone aggregates of specified				
		grading, premixed with bituminous binder and				
		filler, transporting the hot mix to work site by				
		tippers, laying with paver finisher equiped				
16		with electronic sensor to the required grade,				
		level and alignment and rolling with smooth				
		wheeled, vibratory and tandem rollers to				
		achieve the desired compaction and density				
		as per specification, complete and as per				
		directions of Engineer-in-Charge				
	16.57.1	40/ 50 mm compacted thickness with				
		bitumen of grade VG-30 @ 5.2% (percentage				
		by weight of total mix) and lime filler @ 3%				
		(percentage by weight of Aggregate)				
		prepared in Batch Type Hot Mix Plant of 100-				
		120 TPH capacity.	1675.13	Tons		
-	-				-	



	40.00	Description and leading of an array array of level			1
	16.69	Providing and laying at or near ground level			
		factory made kerb stone of M-25 grade			
		cement concrete in position to the required			
		line, level and curvature jointed with cement			
		mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without			
		grooves (thickness of joints except at sharp			
17		curve shall not to more than 5 mm), including			
		making drainage opening wherever required			
		complete etc. as per direction of Engineer-in-			
		Charge (length of finished kerb edging shall			
		be measured for payment). (Precast C.C.			
		kerb stone shall be approved by Engineer-in-			
		Charge).	124.92	Cum	
	19.6	Providing and laying non-pressure NP2 class			
	, , , ,	(light duty) R.C.C. pipes with collars jointed			
18		with stiff mixture of cement mortar in the			
10					
		proportion of 1:2 (1 cement : 2 fine sand)			
	40.05	including testing of joints etc. complete :	0500.00	D 4:	
	19.6.5	150mm dia. R.C.C. Pipe	2500.00	Mtr	
	19.6.5	300mm dia. R.C.C. Pipe	285.00	Mtr	
	19.7	Constructing brick masonry manhole in			
		cement mortar 1:4 (1 cement : 4 coarse			
		sand) with R.C.C. top slab with 1:2:4 mix (1)			
		cement : 2 coarse sand : 4 graded stone			
		aggregate 20 mm nominal size), foundation			
		concrete 1:4:8 mix (1 cement : 4 coarse sand			
		: 8 graded stone aggregate 40 mm nominal			
19		size), inside plastering 12 mm thick with			
		cement mortar 1:3 (1 cement : 3 coarse			
		sand) finished with floating coat of neat			
		cement and making channels in cement			
		· · · · · · · · · · · · · · · · · · ·			
		concrete 1:2:4 (1 cement : 2 coarse sand : 4			
		graded stone aggregate 20 mm nominal size)			
		finished with a floating coat of neat cement			
	10 = 1	complete as per standard design:			
	19.7.1	Inside size 90x80cm and 45cm deep			
		including C.I. cover with frame (light duty)			
		455x610 mm internal dimensions, total			
		weight of cover and frame to be not less than			
		38 kg (weight of cover 23kg and weight of			
	10 7 4 4	frame 15 kg):			
	19.7.1.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	45.00	Each	
20	19.8	Extra for depth for manholes :	.0.00		
	19.8.1	Size 90x80 cm			
	19.8.1.1	With common burnt clay F.P.S. (non			
		modular) bricks of class designation 7.5	15.00	Mtr	
	19.28	Constructing brick masonry road gully	.0.00		
	. 0.20	chamber 45x45x77.5 cm with bricks in			
21		cement mortar 1:4 (1 cement : 4 coarse sand			
-) with precast R.C.C. vertical grating			
		l,			
	19.28.1	complete as per standard design : With common burnt clay F.P.S. (non			
	. 5.25.1	·	15.00	Each	
		modular) bricks of class designation 7.5	13.00	Lauii	
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		Non-DSR			
	NS - 1	Providing and laying 60mm thick factory			
		made cement concrete interlocking grass			
		grid paver block of M -30 grade made by			
		block making machine with strong vibratory			
22		compaction, of approved size, design &			
22		shape, laid in required colour and pattern			
		over and including 50mm thick compacted			
		bed of coarse sand, filling the joints with fine			
		sand etc. all complete as per the direction of			
		Engineer-in-charge.	1375.00	Sqm	
		Total of (DSR-2014)			
		Total of (Non-DSR)			
		Grand Total			

A LIST OF APPROVED MA	KES - CIVIL WORKS
1 Ordinary Portiant Cement	L&T, Ultra Tech, ACC, or other brands approved by
·	the Architect
2 Steel Reinforcement Bars	TISCO,SAIL RINL, Rathi Udyog Ltd.
3 Structural Steel Sections	TISCO,SAIL RINL, Supreme
4 Stone Aggregate (Blue/Black)	Sohna, Pali or other approved
5 Anti Termite Treatment	Bayer or any Company member of IPCA approved
	by architect.
6 Water proof Shuttering	Century, Green, Duro/HaryanaPlywood
7 Teak Wood	1st Class Indian Teak wood of Dandeli
8 Rubberwood/SteamBeach Wood/Specified Wood	As per specie and sourcing country
9 Flush Doors (ISI)	Merino/Shakti met-Dor, Kitply,Duro
10 Laminates	Merino, Greenlam, Century,
11 Laminates-Acid Resistant	Merino, Greenlam
12 Iaminate-Anti Bacterial	Merino, Greenlam
13 Hardware	Hettich, Haffle, Dorma, Geze, Ozone, Doorset, Yale
14 M.S. Fitting (ISI)	Raja, Sartaj, Nova
15 Pressed Steed Frame / Moulded Steel (Door & Windows)	AGEW (Abmedabad), Raumus, Shiva, NCL ltd,
,	(Hyd.
16 Rolling Shutters	Rama Industries, Prakash& Co. Jyoti Industries
17 Steel Doors/Windows (Sections)	Maan, Mahabir
18 Paints	ICI, Asian, Berger, Nerolac
19 Water proof Paint	Apex(Asian), Super Snowcem (Killick Nixon),
20 Locks	Geze, Hettich, Dorset, Godrej, Yale
21 Terrazazo tiles	Nitco, Modern, Kajaria
22 Ceramic/Vitrified tiles	Kajaria, Nitco, Pavit, Asian, Marbonite
23 White Cement	Birla, JK Cements.
24 PVC fixtures	Caliplast, Brite, Fizopan.
25 Aerated autoclaved Concrete	BILT. (New Delhi)
26 Waterproofing	Structural Water proofing Co, Dr. Fixit, Overseas
	Water Proofing
27 Fastners/Anchors/Firestops	Hitli/Fischer
28 Building Chemicals/ Admixtures	Hilti/Fosroc/ Basf
29 Silicon Sealants	Dow Corning/GE
30 VHB Tape/Expandable Polystyrene	3M
31 Glass and Mirror	Saint Gobain/Guardian/Asahi
32 Aluminum Extuded Sections Euro Groove Profile-14 guage	Agarvanshi/Boruka/Jindal/HINDALCO
(2mm)	05 (1) D
33 Polycarbonate	GE (Lexan), Danpalon
34 Door/Window Fittings SS 304/316 grade	Hettich, Haffle, Ozone, Yale
35 Hardware Heavy Duty Applications Door Closers/ Floor Spring/Auto. Doors	Dorma,Geze,Hettich,Briton
36 Hardware, & fittings	Hettich, Haffle, Yale, Dorma,,Dorset
37 Tile Adhesives	Weber, Lafarge, Keisel, Balendura



38 Lifts	Otis,Kone,Schildler,Mitsubishi				
39 Expansion joint covers	CS, Inpro				
40 SS Railings -304/316 Grade (Knock Down System)	Carlf, Q Railing				
41 Rebar	Hilti, Fischer Fosroc				
42 ACP	ALUCOBOND, REYNOBOND, KNAUF				
43 Glass	Saint Gobain, Guardian, Glaverbel,				
44 Glass Plain-Sheet	Saint Gobain, Guardian, HNG, Asahi				
45 Mirror	Saint Gobain, Guardian				
46 Pavers/Interlocking Tiles	Paveespania, Ecovision, Unistone, Pavit				
47 Fire Doors	Shakti Met-Dor, Navair, Duro, GMP Tecnnical				
48 Cubical Partitions	Merino-Besco, Trespa, Dorma				
49 False Ceiling-Gypsum	Gyproc, Lafarge				
50 False Ceiling-Grid Tiles	Ecophone, Armstrong, Anutone				
51 False Ceiling-Metal(Aluminum)	Armstrong, Gyproc-SG, Anutone, Fameline				
52 False Ceiling-Anti Bacterial(AI)	Armstrong, Fameline, Durlam				
53 Acoustic Panels- Gypsum	Gyproc-SG, Armstrong, Anutone, Knauf Danoline				
54 Acoustic Panels-Sound Soak	Gyproc-SG, Armstrong, Anutone				
55 Wall Panelling-Acoustics	Anutone, Armstrong, Gyproc-SG, Eomac, Earcons,				
	Dexune				
56 Exterior Cladding-HPL	Fundermax, Trespa, Fameline, Verito, Stylam				
57 Exterior Al.Louvers, Grills, Building Skin	Fameline				
58 Flooring-Anti Bacterial	Armstrong, Polyflor, Forbo, Wonderfloor				
59 Flooring-Anti Static	Armstrong, Polyflor, Forbo, Wonderfloor				
60 Blinds	Hunter Douglas,MAC, Vista				
61 Trac Curtains-Hospitals	Inpro,Knauf Danoline				
62 Signage	Promoflex,Kich , Primesite				
63 Insulation-Expended Polystyrene, Glasswool Board	Owens Corning UP Twiga, Owens Corning, Kimko				
64 Acrylic Solid Surface	Dupont-Corian, Frmica, LG-HiMacs, Marino-Hanex				
65 Furniture	Godrej, Wipro, BP Ergo, Amardeep, Featherlite				
66 Fire/Acoustic Door	Navair,Shakti MetDoor				
67 Zinc Roofing/Wall Cladding	Vm-Zinc				
B LIST OF APPROVED MAKES OF EQUIPMEN					
1 MV Panels	Dynamic/Pieco/Aura/SS.Panels/NEC				
2 MCB Distribution Boards	L&T/Anchor Uno/HPL				
3 Air Circuit Breakers	Merlin Gerin/ L&T/ABB/HPL				
4 Moulded case Circuit Breaker	Merlin Gerin/ L&T/ABB/HPL				
5 Miniature Circuit Breaker	Merlin Gerin/ L&T/ABB/HPL				
6 Contactors and starters	Merlin Gerin/Siemens/ L&T				
7 Voltage Transformer	AE/ Kappa.				
8 Current Transformer	AE/ Kappa.				
9 Push Buttons	Siemens/L&T/BCH.				
10 Indicating Lamps	Siemens/L&T/BCH.				
11 Fuses and fuse bases	Siemens/L&T				
12 KWH Meters	Neptune/L&T/HPL				
13 Selector switches and rotary switches	L&T/Kaycee.				



14 Indicating Instruments	AE/Rishabh
15 Terminals	Elmex
16 Crimping type lugs	Dowells
17 Cable Glands	Dowells/Comet
18 Relays	ALSTOM/Easun & Reyrolle/ABB/L&T
19 Fuses and fuse bases	L&T/Siemens
20 Cables	Universal/Gloster/Indcab/Polycab/RALLISON Siemens/L&T
21 Capacitors 22 HT breaker	Alstom/Crompton/Kirlosker
22 III bleakei	·
23 Transformers	Crompton/Kirlosker/Voltamp/Powerware(SAI)
24 Battery	Exide/Amaron/Standard
25 Battery charger	Volstat/AE
26 HT cable sealing kits	Raychem/Mseal/3M
27 Electric wire copper as per ISI-FRLS	Finolex/Skytone/HPL,POLYCAB,RALLISON
28 Switches/Boxes	MK with Cover Plate/Anchor Roma/Crabtree/Panasonic.
29 MCB,RCCB,DB	Legrand/MDS/Havells/Panasonic/ABB/HPL.
30 Electrical Pipes	AKG/BEC/ATUL PIPES
31 MS Pipes	TATA, Jindal Hissar
32 HDPE Pipes/Flexible	Duraline,Blue Diamond,Pioneer
33 DG Sets	Bhaskar,Jackson,Kriloskar,Caterpillar
34 Unitized Substation	, , ,
35 LED Lights	PHILIPS,HPL,WIPRO, BAJAJ
36 Internal Light	PHILIPS,HPL,WIPRO, BAJAJ
37 External Light	PHILIPS,HPL,WIPRO, SHEREDER, BAJAJ
	S-PLUMBING AND FIRE FIGHTING
1 Sunken Portion Treatment	SJP,MBT
2 Sanitary ware	Queo/PARRYWARE/
3 Seat Covers	Commander (heavy duty)
4 C.P. Fittings & Bathroom Accessories	Jaquar,Kohler,Crabtree, AQUAPLUS
5 Stainless Steel Sink	Neelkanth,Nirali,AMC, Jayna
6 G.I. Pipes	Tata, Jindal (Hissar)
7 G.I. Fittings	Unik, R brand, Zolot 'M' , Kent Hexagonal
8 Ball Valve	Zoloto/ARCO/CIM/NVR
9 Butterfly Valves	Audco/Advance/C&R/NVR
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10 Non return valve : a) G.M. , b) C.I.	Leader/Zoloto,Advance,IVC/NVR
11 Cl Pipes/Fittings (I.S:3989-1984)	Neco/CIAL
12 C.I Manhole Cover (IS:1726-1991)	Neco/RIF/BC
13 C.I. Grating	Neco/RIF/B.C
14 CI Pipes 'Class LA'	Kesoram/Electro Steel
15 Stoneware pipes/traps	Perfect/Burn/Anand
16 UPVC pipe fittings	Kitec Supreme/Finolex



17 Insulation	Lioyd's India Ltd./Vidoflex/K-Flex/Owensand Corning
18 SFRC Manhole Cover/Grating	K.K Manhole /S.K. Precast Concrete
19 Water Flow meter	Kay Cee/Kent
20 R.C.C Pipe	Jain Spun Pipe/Pragati
21 Automatic Flushing Cistem	Angash International/AOS
22 Water Supply Pumps	Grundfos/Calpeda/KSB
23 Sump Pumps	Grundfos/Calpeda/KSB
24 Motor	Siemens/Crompton/NGEF/Kirloskar
25 Filter	Thermax/Ion-Exchange/Purge
26 Dosing Pump	Asia LMI
27 Dosing Tank	Sintex/Roto Plast
28 Pressure Gauges	Fiebig/H-Guru
29 Level Controller	Minilec/Femac/Textronics
30 Strainers	Emerald/Zoloto/DS Engineers
31 Air Vent Valve	Oven trop (Germany)/RB/Sant
32 Flanges	Able 'H'/Class 150/Rohini
33 Ball Cock	GPA,Sant,L&K
34 Gun Metal Ball/Gate Valves	Leader,Sant,Advance,Zoloto/NVR
35 Fire Extinguishers ISI Marked	CeaseFire/MINIMAX, Safeguard
36 Fire Fighting First Aid Hose reel	Padmini,Kesara Plast,SAFE GUARD
37 R.R.L. Hose	Newage,Padmini,Kesar Plast
38 Hose Coupling Branch Pipe & Nozzle	Minimax,New age,Padmini/FLAME GUARD
39 Landing Valves IS:5290/FB Connection Draw Act	Minimax,Newage,Safeguard/FLAME GUARD
40 Water Supply Hydropneumatic System	DP Holland, Grundfos, Salmson
41 fire Pump	Grundfos/Kirloskar/M&P
42 M.S. Pipes	Tata, Jindal (Hissar)
43 pressure Swith	Indfoss/Danfoss
44 Flaw Switch	System Sensor/Rapid Control
45 Pypecoat	IWL/Pypkote
46 Anunciation Panel	Daksh/ Agni/ ASE
47 I.C.V.	HD/Tyko/Viking
48 Sprinklers	HD/Tyko/Viking
49 Butterfly / Check Valve	IVC / Zoloto / Advance/NVR
50 PPSU (Polypheylsulfone) Pipe	Poloplast
51 CPVC Pipes	Astral, Kisan
Concealed Cisterns	Gabberit,Kohler.Jaquar



1 Airhandling units/Fan Section Balanced Air System	Approved 'Makes' Edgetech/Waves/Ethos/Neutek/ Vikram
2 VRV units	Hitech/Bluestar/Samsung
3 Axial flow fan	Dalkin/Samsung/Mitsubishi Electric / L.G /
	Bluestar/Samsung
4 Inline fan	Krugar/Nicotra/Greenheck/Airflow/Conaire
5 Fresh air blower	Systemair /Greenheok/Ostberg
6 VFD for AHUs	Krugar/Nicotra/Greenheck
7 Starters/switchgear	Danfoss/Honeywell/Johnson
8 Control cables	Siemens/Larsen & Tubro/English Electric/Havells
	Finolex/Havells/Bonton
9 Power cables	Havells/KEI/Delton
10 Push button starters	Siemens/Control and Switchgear/Cutler
	Hammer/Victory Enterprises
11 Auxiliary relays/contractors	Siemens/L&T/Cutler Hammer/ Jyoti
12 Line type fuse	Siemens/English electric/L&T
13 Timer	Siemens/L&T/Cutler Hammer/English Electric
14 Cable plugs	Hax/ Dowells
15 Cable Glands	Dowells/Electromech
16 Terminal block	Elmex
17 Indicating lamps	Siemens/L&T/Control and Switch-Gear/Cutler
	Hammer
18 Selector switches	Siemens/L&T/Kaycee
19 Electrical panel	Electra Power/Adlec/Control Wel Switchgears
20 O/L relays with built in SPP	L&T/Miniles/Siemens
21 Grilles/Diffuser/VCD/Fire Damper	Caryaire/Trister/Servax/Airflow
	Airmaster/Ravistar/Balanced Air System
22 G.I. sheets	Fiberfill/Sail/Bhushan/National/jindal
23 G.I. Duct	Techno/Zeco/Rolastar
24 Duct and pipe supports	Gripples U.K.
25 Pipe G.I/M.S. Refrigerant (copper)PVC	Jindal/Tata/Surya Mandev/Rajco/Maxflow/Shrishyan
	Prakash Surya/Poly Pack/Hindustan
26 Insulation Nitrile rubber Polyethylene (XLPE)	K-flex/ Armacell
	Trocellene/Thermobreak/Thermoflex
27 Duct Treatment	Paramount
28 Cable Tray	Neddo/Universal/Mecano/Fedders Lioyd
29 Sequence controller	Proton/Siemens/Schneider
30 Copper cabling	Bonton/Havells



LOW VOLTAGE SYSTEMS						
1 Controller,Reader EM-Lock	RBH/LENNEL/GE BELL/ALGTEC/DORMA					
2 Boom Barrier & Flap Barriers	Gunnebo/Faac/Magnetic/Kaba					
3 FIRE ALARM SYSTEM	NOTIFIER/EDWARD/COOPER/REVELS					
4 P.A. SYSTEM	JBL/BOSCH/EAW/REVELS					
5 CCTV						
Indoor Dome Camera	SONY-SNCDH110/PANASONICWV-					
	SF135E/Equivalent in BOSCH,CYBO,RANSOFT.					
IR Camera	SONY-SNCCH160/PANASONICWV-					
	SW316L/Equivalent in BOSCH,CYBO,RANSOFT.					
Speed Dome PTZ Camera	SONY-SNCEP521/PANASONIC-					
	WVSW396E/Equivalent in					
	BOSCH,CYBO,RANSOFT.					
NVR	MILESTONE/PANASONIC/NUUO					
6 Intrusion Alarm System	SECURICO/OPTEX/HONEYWELL					
7 Online UPS	APC/TATA LIEBERT/ Eaton					
8 HSPE pipes	Duroline/Blue Diamond/Pioneer					
9 PVC Conduit pipes	AKG/Sethia/BEC					
10 Biometric Attendance System, Controller/Reader/Biometric Reader Enrollment Unit RBH/LENNEL/GE	RBH/LENNEL/GE					
11 EM-Lock	BELL/ALGETEC/Dorma					
12 Electronic Push Button Panic Switch	BELL/ALGETEC/Dorma					
13 Workstation PC/SERVER	IBM/HP/Dell					
14 Displays 18.5 inch	Samsung/Dell/LG					
15 Displays 32 inch	Panasonic/Samsung/Sony					
16 DVD Player	Sony/Samsung/LG					

