



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

(An Autonomous Institution, Ministry of Education, Govt. of India)

IISER Pune Campus, Dr. Homi Bhabha Road, Pune-411 008.

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No: 54(2) /IISER/Pune/2021-22/ 12

Dated 18 /01/2022

NOTICE INVITING QUOTATION

Sealed quotations are hereby Re invited by the undersigned on behalf of the Director, IISER Pune for the work mentioned below up to 3.00 PM on 24/01/2022 from approved and eligible contractors registered with anyone of CPWD, Maharashtra State PWD, Railways, and MES in appropriate category for electrical (B&C) works. The quotations will be opened at 3.30 PM on the same day.

NAME OF WORK: - Providing Electrical, Fume Hood and GDS work at Hydrogenation Facility Near Main Parking area at IISER campus Pune.

Issue to –

Name and address of the agency –

Executive Engineer IISER Pune

Terms and Conditions:

- 1) The applicant should be approved and eligible contractors registered with anyone of CPWD, Maharashtra State PWD, Railways, MES in appropriate category for electrical (B&C) works. Applicant should submit attested or notarized copies of the experience certificate for the work completed within last three years from client department with copy of work order/LOI and completion certificate to along with the quotation. Bidders not meeting the minimum eligibility criteria shall be summarily rejected.
- 2) Time period for completion of work shall be 15 days from the date of placing the work order by IISER Pune. The act of backing-out after opening of quotation will debar such agencies for participating in the future quotations of IISER PUNE. Bidder may e-mail queries on maintenance@iiserpune.ac.in or submit to IISER PUNE office in hard copy on all working days one day before submission date of quotation as specified above.
- 3) Notice Inviting Quotation (NIQ) document may be obtained from IISER PUNE at 121, Engineering Section, Main Building, IISER PUNE Campus, Dr. Homi Bhabha Road, Pashan, Pune - 411008 between 10 AM to 4 PM on all working days before date of submission. Applicant may submit quotation by obtaining NIQ document from IISER PUNE website at <http://www.iiserpune.ac.in/links/tender-notice-and-eoi>
- 4) All agencies need to submit their quotation in hard copy in sealed envelope on and before 3 PM on 24/01/2022. Quotation received after the date & time specified above shall not be accepted. Any delays, postal delay etc. will not be entertained. Agency should quote for all the items in the BOQ. Rates quoted in words shall be treated as Final for deciding L1 bidder. The bid shall

be submitted in the original bid document (as issued by the IISER, Pune or Webcopy super scribing the name of work. Quoted rates shall be valid for 60 days from the date of opening of quotations. Rates shall be quoted in hand writing at the spaces provided in NIQ document.

- 5) Quotations will be opened on the same day at 3.30 PM in the presence of agency or their authorized representatives, if any. The offer of the agency should be commercially clear including acceptance of all terms and conditions of this Quotation by the agency. IISER Pune reserves the right to accept or reject the quotation/s without assigning any reasons.
- 6) Quotations submitted with any conditions shall be treated as conditional quotations and shall be summarily be rejected by IISER PUNE.
- 7) Quoted rates should be inclusive of cost of all the materials, labour cost, GST, all taxes, octroi, duties, cost of sample and fees towards testing of materials in labs, royalties etc. complete. Nothing extra shall be paid separately. No, Bidder shall contact the IISER, Pune on any matter relating to his bid from the time of the bid opening to the time of issue of work order. Any effort by the Bidder to influence the IISER's bid evaluation, bid comparison or contract award decisions, may result in the rejection of his bid.
- 8) All approved makes shall be as specified in BOQ and as per CPWD specifications, agency should put-up technical data and obtain prior approval on makes of various materials of IISER PUNE before taking-up work. The successful agency shall make his own arrangement for all Tools & tackles for work etc complete in view of completion of work. Electricity shall be provided free of cost to agency at one source, agency should make own arrangement to safely tap of power from source to work location. No advance payment shall be made by IISER Pune. Quoted rates should be including GST, TDS and other applicable taxes. Income Tax and labour cess will be deducted from the bills of the work.
- 9) Specification for the work to be carried out as per BOQ, latest CPWD specification, IS specifications & as per instruction of IISER PUNE whenever specification CPWD/ IS specification are not available.
- 10) The contractor shall ensure that minimum wages should be paid to the labours and employees in accordance with labour laws. All the safety measures shall be followed by the L1 agency as per prescribed norms during execution of work with all the necessary safety tools etc. Executing Agency shall be sole techno-commercially responsible for the strict adherence of safety norms and allied compensations etc.
- 11) Agency should submit measurements and abstract sheets to IISER PUNE for the payments within 30 days from completion of work.


Executive Engineer IISER Pune

BOQ (Scheduled of Quantity)

Name of Work: Providing Electrical, fume hood and GDS work at Hydrogenation facility Near Main Parking area at IISER campus Pune.

Note : Please note that Quoted rates are inclusive of all taxes,labour,transportation etc. nothing extra shall be paid separately.

Sr.No.	Description	Qty	Unit	Rates in words and Figure	Amount
	PART A- FUME HOOD ACCESSORIES :				
1	Shifting, lifting, positioning, servicing, testing and commissioning of the existing fumehood of size 1800 mm to 2100mm fume hoods from IISER Pune stores to 2nd floor Chemistry block of main building (lead within the campus). Quoted rate shall be including checking of fume hood damper, repairs to sash mechanism, repairs to chemicalcabinete ducting including cost of piping, checking and repairs of consealed GDS, electrical, lighting, valves, cup sinks, connecting water and drain ine to the nearest supply point. The rate shall be quoted per fume hood and shall include the cost of all sundry, labour and taxes as per terms and conditions of bid document. Unserviceable item will be paid under respective head. (Quoted rate shall be inclusive of all taxes, transportation, leads and lifts and nothing shall be paid extra on this account)	1	each		
2	FUMEHOOD CONTROL VALVE:Providing, supply, installation, testing and commissioning of gas and utility control valves, located in the end panels, controlled by extension rods and colour coated plastic handles. Mode of measurement shall be in numbers as described below.(Quoted rate shall be inclusive of all taxes, transportation, leads and lifts and nothing shall be paid extra on this account)				
2.1	FH Front Control Valve for Nitrogen make Water Saver / Broen / / FAR	2	each		
3	FUMEHOOD INTERNAL PIPING : Providing, supply, installation, testing and commissioning of internal all Utility services piping in fume hoods, consisting SS 304 pipes or flexible pipes of required dia and length, all pipes extended up to 150mm above the Fume hood top including making connections with control valves etc complete internal piping work. Fume hood sizes- 1200mm length- 25 Nos, 1800mm length- 81 Nos & 2100 mm length - 5 Nos. Control valve shall be paid separately. Rate is inclusive of cost of all materials, labour and operations. Mode of measurement shall be per each fume hood.	1	each		

4	FUMEHOOD INTERNAL ELECTRICAL SYSTEM: Providing, supply, installation, testing and commissioning of fume hood internal electrical supply system, consisting of - 6/16A sockets 3+3 nos, with 16A individual control switch; DB on Top or at suitable location of the fume hood with MCB's for each circuit; FRLS wiring with 4 sqmm wires for power sockets; with Two rapid start, approved fluorescent light fixtures with Electronic ballast installed on roof, 1200mm tube for 1800hoods, 2x900mm for 2400 hoods light switches on Fume hood Fascia, 32 amp 4 pole MCB for main incomer, wiring should be done by using proper raceway/conduit. Socket should be provided with proper earthing with 4 sqmm FRLS wire. Rate is inclusive of cost of all materials, mode of measurement shall be each fume hood. (Note the control box of fume hood should be placed in the front panel of fume hood for easy maintenance. Proto type sample to be got approved from the Engineer in charge before mass production.)(Quoted rate shall be inclusive of all taxes, transportation, leads and lifts and nothing shall be paid extra on this account) Make Northwest / Legrand (MOSAIC) MK / Siemens	1	each		
5	FUMEHOOD CEILING ENCLOSURES: Providing, supply, installation, testing and commissioning of vertical side panels, made of 1.2mm thick CRCA sheet, epoxy powder coated minimum 60 microns thickness -Ceiling Enclosures to fill the space between the top of the hood and the ceiling to get a finished appearance. False ceiling height to be considered up to 3 Meter Height from FFL. The Ceiling Panel to be provided with an Access Panel in the front for easy access to the light fixture, Electrical Junction Box, VAV Dampers etc. Rate to include cost of all materials and operations. Mode of measurement shall be perimeter outer boxing panel and height of panel shall be measured for working out the area in Sqm for payment. (Quoted rate shall be inclusive of all taxes, transportation, leads and lifts and nothing shall be paid extra on this account)	5	sqm		
6	Shifting and Re installation of dismantled Blower (Capacity upto 5Kw) with blower mounting frame, supports & Etc.	1	Each		
7	PP-FRP DUCTING & ACCESSORIES : Design, supply, installation, testing and commissioning of PP-FRP ducting with glass lined (GL) finish, FRP lining shall be of fire resistant Bisphenol resin. Duct pricing is inclusive of all necessary flanges, bends, entry branches, tapers, inspection door, gaskets for flanges, bolt & nuts, washers, support angle, hanger threaded rods with anchor bolts for fixing. Rate is inclusive of enamel painting for exposed surfaces. Mode of measurement shall be in sqm, measured as circumference x running length, extra will not be paid for accessories such as flanges, entry doors, inspection doors, gaskets etc. (Quoted rate shall be inclusive of all taxes, transportation, leads and lifts and nothing shall be paid extra on this account)				

7.1	Ducting up to 500mm Dia - wall thickness shall be 3 mm for PP and 3mm for FRP. Make Mandhani/Dugar/Khanna / Simona / Beck Isothelic Resin - Mechemco/Kaysynth/Orsyn / Simona	15	sqm		
8	Supply & fixing of PP/FRP 315mm dia. single leaf damper, manually operated for Fume hoods	1	each		
9	Supply & fixing of 325mm Dia flexible hose with 400mm Dia. Clips for Fume hood (Considered 0.5 mt as 1 No)	1	each		
10	Supplying, Fixing, testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes, the damper shall be spring return so as to close the damper in the event of fire. The spring return action shall be inbuilt mechanism and not externally mounted. Fire damper (Material of construction is SS 304) Diameter of damper - 12 inches (Quoted rate shall be inclusive of all taxes, transportation, leads and lifts and nothing shall be paid extra on this account)	1	each		

	PART B- GDS Work					
11	Supply, installation, testing, commissioning of Gas Distribution System for Laboratory Gases in SS 304 seamless tube. All joints shall be compression fitted ferrule type fittings of approved makes. System shall be tested and handed over at 10 bar pressure test till Manifold. All components up to manifold system of Gas Bank System shall be tested at minimum 150 bar and Leak free, full functional GDS system shall be handed over to IISER PUNE. Quoted rate shall be including all necessary fittings, tools, tackles, bending tool, welding machine, GST, lead, lift etc and all necessary equipment's required at site. Agency shall submit PN & ID and obtain approval of Engineer In-Charge before taking-up GDS works. Wall marking shall be done showing GDS route actual at site and approval on profile making shall be obtained before fixing of tubes. System shall be guaranteed for 1 year for leakage and fittings, comprehensive guarantee of complete system shall be submitted on Rupees Five hundred bond paper with free replacement of defective components to IISER PUNE. Actual components listed below installed at site shall be measured for payments. Nothing extra shall be paid separately.					
	Manual Change Over System with Workshop Fabricated Manifold					
11.1	Manifold Block with mounting bracket : Fabricated Type for SS 304 1/4" System for single cylinder MOC SS 304, Factory Fabricated	1	Each			
11.2	1/4 " cylinder Isolation Valve MOC Brass Coated Make Excel/ Ex-Lock/Panam/Tescom	1	Each			
11.3	Cylinder mounted Two Stage Regulator (Inlet pressure 250 bar and outlet pressure 0 to 16 bar) Moc SS 304 Make Excel/ Ex-Lock/Panam/Tescom	1	Each			
11.4	1/4 " OD Flexible Hose with bullnose connector & safety wire rope (1 meter long) MoC SS 304 Make Excel/ Ex-Lock/Panam/Tescom	1	Each			
11.5	Cylinder bracket with Chain Moc MS Powder Coated Make Excel/ Ex-Lock/Panam/Tescom	1	Each			
11.6	Ball valve 1/4" OD MOC SS 304 Make Excel/ Ex-Lock/Panam/Tescom	2	Each			

11.7	Check valve 1/4 " NPTF x 1/4" NPTM Make Excel/ Ex-Lock/Panam/Tesco MoC SS 304	1	Each		
11.8	SS 304 , Seamless Tube 1/4" OD Make Suraj / Ratnamani / Prakash /MBM /Sandvik/India	30	M		
11.9	Union 1/4" diameter MoC SS 304 Make Excel/ Ex-Lock/Panam/Tesco	5	Each		
11.10	PP clamp set 1/4" OD	20	Each		
11.11	Aluminium profile	1	Meter		
	Electrical works				
12	Supplying LT cable having Aluminium conductor XLPE insulated sheathed,galvanised steel tape armoured cable with pvc outer sheathing 1.1 KV (Confirming to IS 7098 Part-II amended upto date as per the following sizes). Including the cost of all materials, labour, Handling of materials of equipment and machineries all lead lift, loading and unloading, transportation, if any other incidental charges at all level complete all as per specification and as directed by Engineer-in charge. 3.5 Core x 25 Sqmm Armoured Aluminium (A2XFY) Cable.	70	RMT		
13	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. Upto 35 sqmm	20	RMT		

14	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required. Upto 35 sqmm	50	RMT		
15	Supply and installation of End termination of cables with double compression brass cable glands, Al crimping type lugs should be used for Al cables and Cu lugs with soldering and ferrules for the following 1.1kv class Al./Cu. XLPE/PVC insulated using necessary crimping tool and all other accessories as required and Including the cost of all materials, labour, Handling of Materials of equipment and machineries all lead lift, loading and unloading, transportation, if any other incidental charges at all level complete all as per specification and as directed by Engineer-in charge. 3.5 Core x 25 Sqmm (A2XFY) XLPE AL. AR. Cable. 3½ X 25 sq. mm (28mm)	2	Each		
16	Supply, Installation, Testing and Commissioning of all MCB Distribution Boards (10KA) 415V, made out of 16SWG MS sheet steel enclosure hinged MS cover/over flanged cover (double door) with cutouts for operating the MCB knobs and comprising of phase bus bars, neutrals and earth bus with tapped holes, bakelite phase barriers, pvc insulator shoes for incoming wire, etc complete. DB's shall be mounted by grouting in to the wall/angle to brick wall as required. DB's shall be suitable for Three Phase / single phase loads. Or DB's shall be mounted on suitable M.S. angle and supporting flat. DB's shall include termination lugs etc., all complete. (Note: Local fabrication not permitted. Only factory made boxes shall be installed and all MCB's shall be with 10 KA rating) Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required , 4 way (4 + 12), Double door for RPDB	1	NOS		
17	Supplying fixing and wiring Current Operated RCBOs,240V/415V 50Hz with 10KA short circuit with standing capacity 25amps. double pole, 30/100mA, and Including the cost of all materials, labour, HANDLING OF MATERIALS of equipment and machinery all lead lift, loading etc, complete. RCBO 63 A, 4P, 30mA - - RPDB & UPS DB	1	NOS		
18	Supplying fixing and wiring Current Operated RCBOs,240V/415V 50Hz with 10KA short circuit with standing capacity 25amps. double pole, 30/100mA, and Including the cost of all materials, labour, HANDLING OF MATERIALS of equipment and machinery all lead lift, loading etc, complete. RCBO 32/40 A 4P, 30mA - - LDB	1	NOS		

19	Supplying fixing and wiring Current Operated RCBOs, 240V/415V 50Hz with 10KA short circuit with standing capacity 25amps. double pole, 30/100mA, and including the cost of all materials, labour, HANDLING OF MATERIALS of equipment and machinery all lead lift, loading etc, complete. RCBO 32/40A, DP, 30mA - for LDB + ELDB + RPDB	3	NOS		
20	Supplying and fixing, MCB on existing MCB distribution boards using necessary fixing materials and wiring complete as required and Including the cost of all materials, labour , HANDLING OF MATERIALS of equipment and machineries all lead lift, loading etc, complete 32 A TP MCB - for RPDB & UPS DB	1	NOS		
21	Supplying and fixing, MCB on existing MCB distribution boards using necessary fixing materials and wiring complete as required and Including the cost of all materials, labour , HANDLING OF MATERIALS of equipment and machineries all lead lift, loading etc, complete 16 / 20A, SP, MCB - 'C' CURVE for RP & UPS DB's	4	NOS		
22	Supplying and fixing DP sheet steel enclosure on surface/ recess along with RCBO 32/40A, DP, 30mA , complete with connections, testing and commissioning etc. as required.	3	NOS		
23	Supply & installation of surface mounted DLP U- PVC adaptable trunking raceways, fabricated out of U-PVC to Off-White or approved shade as per IS 733 of thickness 2.0mm for the base and sides with removable covers, complete with necessary bends, suitable sized junction boxes, internal angle, external angle, flat 90 degree angle , end caps and tees etc, Complete. (For every 1mtr distance cable tag has to be provided for each circuit in the raceways - as more that 1C FRLS copper wire is required for 1 Circuit) PVC RACEWAYS (Along the wall), DLP U- PVC adaptable trunking . Size: 105x 50mm PVC Raceways for Power & Data with above specifications , 105x 50mm PVC Raceways	20	Meter		
24	16 AMP SOCKET: Supplying and fixing following Modular socket on the existing raceways & PVC DLP trunking with required accessories to complete jobs. including connections, as required. 6 Pin 15/16 amp socket outlet	4	NOS		
25	13 AMP SOCKET: Supplying and fixing following Modular switch / socket on the existing raceways & PVC DLP trunking with required accessories to complete jobs. including connections, as required including connections, as required. 13 amp socket outlet	1	NOS		

26	16 AMP Switch: Supplying and fixing following Modular switch / socket on the existing raceways & PVC DLP trunking with required accessories to complete jobs. including connections, as required. 15/16 amp switch	5	NOS		
27	Supplying and fixing following Modular switch / socket on the existing raceways & PVC DLP trunking with required accessories to complete jobs. including connections, as required including connections, as required. Blanking plates 1 module	5	NOS		
28	Supplying and fixing following Modular switch / socket on the existing raceways & PVC DLP trunking with required accessories to complete jobs. including connections, as required including connections, as required. 4 Module Box with faceplate & cover	5	NOS		
29	32Amp, three phase : Supply and fixing 32A, 5 pin, three phase, Industrial Socket with safety shutters controlled by One no. of 32A, three Pole MCB to be mounted on wall, (As per IEC 61439-3. suitable for flush mounting and surface mounting. 3P+ P+E Five pole, IP 44, material of plug & socket polyamide 6. The job includes cutting & chasing on existing wall, fixing the box in position as required including rough plastering.) Including the cost of all materials, labour , HOM of equipment and machinerys all lead lift, loading and unloading,transportation, if any other incidental charges at all level complete all as per specification and as directed by Engineer-in-charge. MCB/PLUG/BOX - 32A	1	NOS		
30	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	4	Point		
31	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire For Raw power	50	RMT		

32	Supply surface mounted 20W LED batten type fitting complete with all accessories Including the cost of all materials, labour, HOM of equipment and machinerys all lead, lift, loading and unloading, transportation, if any other incidental charges at all level complete all as per specification and as directed by Engineer-in-charge. The fitting shall be green as per ECBC norms. .Make Wipro / Crompton / Havell / Bajaj	3	Nos		
33	ERECTION for surface mounted 20W LED batten type fitting including ceiling hook, drop wires 3 R x 1.5 sqmm copper flex wire from ceiling point to fitting with full covered flex pipe, stray wire / cable for handing fitting on false ceiling or mouting on ceiling with surface box assembly etc as required and complete. Cutting in metal / false ceiling for required cut out is in scope of agency.	3	Nos		
34	25 mm X 5 mm GI earth strip on surface: Providing and fixing 25 mm X 5 mm GI strip from earth electrode as required.	20	RMT		
35	Supply, installation, testing and commissioning of Chemical earthing using electrode of size 76 mm minimum diameter, minimum 03 meter long and connected with 50x5 mm copper internal strip, material of conustruction COPPER, complete with existing excavation / bore, civil work for chamber, cast iron cover size 450 x 450 mm, with backfill compound as required to fill earth pit up to mark. the earth resistance shall be as per IS 3043	2	Set		
36	Providing boring / drilling bore well of 150mm dia for casing / strainer pipe , by suitable method, including drilling in all strata, including hiring & running charges of all equipments, tools, plants and machinenaries required for the job, all complete as per direction of Engineer in charge.	10	Meter		
	Total				

Sign and Stamp of Agency


Executive Engineer
IISER Pune

APPROVED MAKE OF MATERIALS

S.No.	Electrical Material	Make
1	Instrument Transformers Indicating Meters	a) Kappa b) Kalpa c) Voltamp
2	Analog	a) Mecro b) Rishab c) AE
3	Digital	b) Mecro c) AE d) Socomec e) Conzerv f) SECURE
4	Indicating Lamps	a) GE b) SCHNEIDER c) TEKNIC d) L&T e) ALTOS, (MULTIPLE LEDs)
5	PLC / Digital Load Monitor / Power monitor	a) Electrex b) Allen Bradley c) GE d) Schneider e) Conzerv
6	Panel Accessories / Terminal block	a) Dirak b) Elmax c) Phoenix d) Wago
7	Timers	a) L& T b) Minilec c) Seimens d) GE e) Schneider
8	TVSS	a) ASCO , b) Schneider, c) ABB
9	Cable Terminating Kits	a) Raychem Heat Shrinkable, B) 3M, C) CCI
10	Earthing	a) Erico b) Nimbus c) Ashlok
11	MV Switch Boards (LT panels)	a) Accusonic / b) Load Controls / c) Elins / d) Lotus Switchgear / e) Pace Switch gears f) Suva rna Electricals

12	Moulded Case Circuit Breaker	a)GE (Spectra / Record) b) Schneider (COMPACT) c) L & T (O SINE) d)ABB e) MDS Legrand
13	MCB Distribution Board	a) Legrand b) Schneider c)Seimens
14	Miniature Circuit Breaker	a) MK b) Legrand C)siemens, d)Schneider
15	ELCB / RCBO	a) MK b) Legrand C)siemens, d)Schneider
16	Earth Leakage Relay	a) MK b) Legrand C)siemens, d)Schneider
17	LT Cables (XLPE)	a) Polycab b) Finolex , c) CCI
18	PVC Insulated copper wire FRLS	a) Polycab b) Finolex , c) CCI
19	Cable Glands	a) Dowells b)SMI, C)CCI, d)Electrowerke
20	PVC Rigid conduits	a) Precision b) DIAMOND, C)Finolex , d) polycab
21	M S Conduits	a)BEC b) BI,
22	Switches, Sockets, Plug etc	a) Legrand Mosaic b) MK, c)Schneider, D) Anchor(Ave)
23	Ceiling rose / HOLDERS	a) Legrand Mosaic b) MK, c)Schneider, D) Anchor(Ave)
24	Light fitting, Flourscent CFL/GLs	a) Philips b) Wipro c) GE

25	LED Light fitting	a) Wipro b) Asian, c) Siska d) Philips
26	Ceiling Fan	a) Crompton greaves (high breeze) b) Bajaj Super Model c) Usha
27	Exhaust Fans	a) Alsthom b) Almonard, c) Usha, d) CGL
28	Telephone Cables	a) Delton b) Finolex c) Polycab
29	Telephone Sockets	a) Anchor b) MK (Suitable to mount on Legrand DLP trunking) /
30	Terminal Junction boxes	a) Elmex
31	Power Socket Industrial type	a) Legrand Mosaic b) MK, c) Schneider,
32	TV Outlet	a) Anchor b) Legrand c) MK
33	Cable trays	a) Storrax b) Skaber c) Profab
34	Metallic raceways	a) Storrax b) Skaber c) Profab
35	PVC raceways / PVC DLP trunking	a) LEGRAND b) MK, c) Schneider,
36	Aluminium raceways	a) LEGRAND b) MK, c) Schneider,
37	Surface / Recess mounted FTL fixtures	a) Philips b) Wipro c) GE
38	Recess mounted down lighter	a) Philips b) Wipro c) GE
39	Wall mounted luminaire	a) Philips b) Wipro c) GE
40	Data Cable - CAT-6	a) D-Link b) Legrand, c) Polycab

41	External light fittings/ Garden Light fittings	a) Philips b) Wipro c) GE d) Philips
42	Switches, Sockets, Plug etc	a) Legrand Mosaic b) MK, c) Schneider, D) Anchor
43	Base plates and face plates	a) Legrand Mosaic b) MK, c) Schneider, D) Anchor
44	Full loaded patch panels	D link or RR
45	Data patch cords	D link or RR
46	PVC Rigid conduits	a) Precision b) DIAMOND, C) Finolex , d) polycab
47	Cable Terminating Kits	a) Raychem Heat Shrinkable, B) 3M, C) CCI
48	Fire Alarm Control Panel	Notifier / Edward / Bosch / Cooper/ Siemens
49	Repeater Panel	Notifier / Edward / Bosch / Cooper/ Siemens
50	Addressable Smoke Detector	Notifier / Edward / Bosch / Cooper/ Siemens
51	Addressable Multi Sensor Detector	Notifier / Edward / Bosch / Cooper/ Siemens
52	Addressable Heat Detector*	Notifier / Edward / Bosch / Cooper/ Siemens
53	Addressable Strobe Cum Sounder	Notifier / Edward / Bosch / Cooper/ Siemens
54	Addressable Sounder / Hooter	Notifier / Edward / Bosch / Cooper/ Siemens
55	Addressable Manual Call point	Notifier / Edward / Bosch / Cooper/ Siemens
56	Addressable Monitor Module	Notifier / Edward / Bosch / Cooper/ Siemens
57	Addressable Control Module	Notifier / Edward / Bosch / Cooper/ Siemens
58	FRLS Armoured Cable	Finolex / Polycab / Lapp
59	CCTV Camera	Honeywell/Bosch/Panasonic
60	POE Switch	Cisco/Avaya/Netgear
61	Network Video Recorder NVR	Honeywell/Bosch/Panasonic
62	Surveillance Harddisk	WD/ Seagate/Toshiba
63	SMPS for CCTV & Access Control	MicroPower/CP Plus/Hikvision
64	Other Items	Approval of Enginer Incharge.

A. Kulkarni