

BEML LIMITED, BANGALORE

ISSUED TO:	Period of contract:	08 Months
	EMD : (Rs)	Rs. 28,05,000 /-

SUB: Design & Construction of Pre-Engineered Hangar for storage of materials of High Speed Trains and future Metro items to carry a load of 10 Ton overhead crane capacity at a given point, area adjacent to Cylinder stores in BEML Limited, Bangalore complex, Bangalore-75.

SCHEDULE 'A' - BILL OF QUANTITIES

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
A	CIVIL WORKS:				
1	<p>Scope of Work: Site Development</p> <p>1. Site Survey:Conduct detailed topographical survey of the entire plot. Establish boundary lines, plot dimensions, existing structures, and ground levels. Set permanent benchmarks and layout reference points.</p> <p>2. Surface Cleaning: Surface excavation in all kinds of soils including removal of rank vegetation/bushes, clearance of vegetation, cutting tree stumps, bushes, clearance of rubbish, debris, and any foreign materials. Removal of construction debris/any other unwanted materials & disposal of debris outside the site premeises not exceeding 5KM which is not objected by any othe local civic authorities.</p> <p>3. Site Leveling and Grading: Perform cutting and filling as per the required formation levels.Ensure final grading complies with drainage and slope requirements as per the site plan.</p> <p>4. Testing of Soil – Safe Bearing Capacity (SBC): Conduct geotechnical investigation, including test pits or boreholes, to determine SBC at required</p> <p>5. Final Site Preparation: Ensure site is fully cleaned, graded, and compacted.Submit drawings of as-built levels, compaction test results, and soil test reports. (Approximate Total Area 2400 Sqm).</p> <p>6 Preparation & submission of good for execution drawing as hard copy(03 copies A2 or A3 size colour drawings) and soft copy (both in Autocad & PDF) viz Plan,sections,elevations of hangar/shed. The contractor shall submit the detailed PEB structural and architectural designs and drawings (plans, sections, elevations) for foundation and superstructure, interior layout of Civil, Electrical & Plumbing, in 3D format along with a walk through including submission of detailed Estimate, measurements and incorporate any further suggestions and changes suggested by BEML</p>	JOB	1.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
	Note 2: a) The approximate (tentative) area considered for Design and construction of a complete hangar & Locker & documentation room of approx area 2400 Sqm including all necessary foundations for steel structures to support a crane (02 Nos) with a 10-ton loading capacity at any point. b) The gantry height to be 12.0meters approx. c) Construction of Gents & ladies toilet. d) New RCC Storm water drain Approx length				
2	Demolition/ dismantling the existing plain cement concrete flooring/hardstanding concrete of any description and in any position not otherwise specifically provided etc and stacking of serviceable materials if any and disposal of unusable materials or debris outside the site premises to a distance not exceeding 5.0 KM which is not objected by any civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in charge. Note: The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities .	Cu.M	200.00		
3	Earthwork excavation by mechanical/ manual means in foundation trenches, pits not exceeding 1.50m in depth in all kinds of soil including getting out the excavated earth, dressing of sides, dewatering ground water/ rain water if any, compaction including disposal of debris/unserviceable surplus earth outside the site premises to a distance not exceeding 5.0KM which is not objected by any civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in charge.	Cu.M	1000.00		
4	Earth work excavaion by mechanical means/manual means in foundation trenches exceeding 1.5 Mts in depth & not exceeding 3 mts in depth in all kinds of soil but excluding hard rock for foundations/ pits including getting out the excavated earth and disposal of debris out side the premises to a distance exceeding 1.5m ¬ exceeding 5km, disposal of surplus excavated soil as directed including dressing of sides, dewatering ground water/rain water, compaction etc.,complete all as specified and as directed by engineer in charge.	Cu.M	480.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
5	Providing and laying in Position Plain cement concrete of mix proportion 1:3:6 using 40mm graded down size granite aggregate, well compacted for foundation bed, under floors and other similar works including curing etc.,complete all as specified and as directed by Engineer in charge. Note: The rate quoted by the Contractor for the item is deemed to include for providing and	Cu.M	100.00		
6	Providing, and laying in position Reinforced Cement Concrete M20 grade 1:1.5:3, using 20mm graded down size granite aggregate machine mixed for Beams,etc complete including curing, vibrating, compacting, finishing,dewatering wherever necessary including lead, lift etc., complete all as specified and directed by Engineer in charge. Note: a) Reinforcement shall be measured and paid separately under relevant item. b) The rate quoted for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.c) The rate is deemed to include for providing RCC Duct slab.	Cu.M	390.00		
7	Returning & filling the available earth in plinth, trenches, foundations or around plinth with approved good quality earth of non swelling type, free from organic materials, consolidating in layers of not more than 200mm including watering, compaction, etc complete all as specified and directed by Engineer in charge. Note: Net consolidated volume shall be measured for payment puposes.	Cu.M	380.00		
8	Providing and constructing size stone masonry superstructure wall built in CM 1:6, well bonded, bedded and solidly hearted in courses not less than 20cms high using good quality granite size stones including chisel/hammer dressing to face stones & corner stones of pillars including curing etc., complete all as specified and directed by the Engineer in charge.	Cu.M	120.00		
9	Supplying and laying soling of 200mm compacted thickness below floor/foundation with good broken boulders/ soling or quarried stones of 150 to 200mm size laid in layers,well packed to the correct line & level, interstices filled with stone chips, sand or moorum and consolidated including transportation, etc., complete all as specified and as directed by Engineer in charge. Note: For payment consolidated thickness shall be considered.	Sqm	2100.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
10	Providing and laying laterite/40mm jelly/ DLC above soling, including spreading, consolidating and rolling to required gradient etc., complete all as specified and as directed by Engineer in charge.	Sqm	2100.00		
11	Providing TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameters for various locations & levels as shown in drawing, cut to length and bent to shape required, binding spirally with MS wire (annealed) of size not less than 0.9 mm dia and placing in position including all lead, lift, labour, tools & tackles, plant & machinery etc., complete all as specified and directed by Engineer In-charge. Note: a) The rate quoted by the contractor for the item is deemed to include for cement mortar cover blocks as per the requirement at site and providing and removal of scaffolding/ staging wherever necessary. b) Reinforcement will be measured based on actual quantity placed in position on standard weight basis, no allowance will be made for rolling margin. c) Only authorized laps, chairs and spacers shall be measured and paid.	MT	12.00		
	Design & Construction of PEB Structure: a) Structural design of foundation, superstructure as per IS codes considering SBC of soil/soil test report. Discussion with BemeI regarding the same and suggesting the most economical & feasible option to BemeI considering the availability of materials & life of structure. Submission of structural design report with third party certification of design from reputed Government/semi-government institutes,IITs,NITs etc., b). Preparation & submission of good for execution drawing as hard copy(03 copies A2 or A3 size colour drawings) and soft copy (both in Autocad & PDF) viz Plan,sections,elevations of hangar/shed. The contractor shall submit the detailed PEB structural and architectural designs and drawings (plans, sections, elevations) for foundation and superstructure, interior layout of Civil, Electrical & Plumbing, in 3D format along with a walk through including submission of detailed Estimate, measurements and incorporate any further suggestions and changes suggested by BEML.				

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
12	C) Design, Supply, Fabrication, hoisting and erecting in position MS Structural steel for roof truss , cladding work using MS Structural steel sections for roof truss, columns, viz., channels, plates, angles, cleats, flats, tubular sections, fixing to correct line & level including cutting, welding, bending to required shape, including painting of MS Structural steel with two coats of synthetic enamel over a coat of zinc chromate primer.	JOB	1.00		
	d) Design, Supply, Erection and fixing of GI Z Purlins of 210mmx2.40mm thick of 45 MPA for roof & claddings etc.,				
	e) Design, Supply and fixing of 50mm thick sandwich Puf roof panel with JSW sheet for roof of 40kg/m ³ density with necessary sealant, bonding, fittings and fixtures, all necessary hardware etc., Including lead and lift, tools (Metroof / equivalent) etc.				
	f) Design, Supply & fixing M/s. JSW/TATA make single skin HI-Rib trapezoidal profile PPGL colour coated (sky blue) sheeting for cladding 1060mm supply width, 975mm-1000mm covered width 29mm-30mm crest height, 24mm crest width with min. 195mm-200mm pitch in 0.60mm thick TCT.				
	g) Design, Supply and fixing 0.50mm thick Gal valume ridge sheet, fixed to the existing MS structural steel members etc including all hardware/ fixtures like nylon head self tapping corrosion protected mechanically galvanised fasteners with integral washer etc., EIC				
	h) Design, Supply and fixing M/s.Tuflite/PC Lite/Lexon/Equivalent make corrugated 2mm thick uniform thickness polycarbonate sheet for roof conforming to relevant IS with necessary hardware screws/ washers and sealant, (15% of total roof area to be covered for skylite insulation.)				

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	<p>NOTE: Design and construction of a complete hangar & Locker & documentation room of approx area 2400 Sqm including all necessary foundations for steel structures to support a crane (02 Nos) with a 10-ton loading capacity at any point. The crane gantry top height shall be 12 meters. The scope also includes PUF roofing with sandwich panels, cladding, roof extractors /(eco ventilators-self rotating type), one wicket door of size 1.20mtr x 2.10 mtrs). The Roof area to include a lifeline system and a ladder for safe external maintenance access</p> <p>Note: The approximate (tentative) area considered under the scope of work is: a) Construction of PEB Hangar b) Construction of Locker & documentation room of total approximate area = 2400.00 Sqm c) Crane Gantry top height shall be 12.0mtr. d) Supply of crane and crane rails is excluded.e) Around Galvalume sheets for Cladding to be provided above 3.0meters height of BBM Walls up to roof level.</p>				
13	<p>Construction of Toilet blocks Consisting of following nos.</p> <p>Gents: 1 block of size approx : 3.0Mtr x 3.0Mtr - 1 No (consisting of Urinals-2 nos, IWC- 1 Nos,EWC-1,Wash basin-2 No.-)</p> <p>Ladies Toilet: 3.0Mtr x 3.0Mtr - 1 no IWC-1,EWC-1, Dress change -Room-1, Wash basin 2 No).</p> <p>Note: The work includes the following items : Earth work excavation in foundation trenches, Size stone for foundation, Plinth beams, AAC block masonry 230mm outer walls , internal walls 115mm thick, height : 4 mts, RCC roof, chajja, uPVC windows and ventilors, 6 x 2 Led mirrors, exhaust fans, FRP solid doors with necessary fittings, Granite urinal partitions, wash basin on granite top,all necessary fittings , Bib taps, pillar taps, & all other necessary plumbing fittings out side painting with Exterior Plastic emulsion Paint of Apex ultima/Berger weather coat alguard, inside for ceiling painted with interior emulsion paint, Providing Vitrified/ceramic tiles inside for flooring full height dado tiles and</p>	JOB	1.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
14	Supplying and fixing Power operated rolling shutters made of size approx 6mx10m of 80x1.25mm MS laths, interlocked together through their entire length and jointed at the end by end locks, with protective canopies to prevent rainwater splashing with a locking mechanism, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and out side locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454-part-1 including 1.25mm thick MS top cover for rolling shutters and all surface painted with 2 two coats of synthetic enamel paint of approved colour over a coat of primer, all fitted and fixed including all accessories etc.,complete all as specified and directed by Engineer in charge. Note;- clear area of shutter shall be measured for payment. MAKE: STANDARD AUTOMATIC SOLUTION/ AVINAS/ GANDHI AUTOMATIONS	Sqm	50.00		
15	Hardstanding Concrete: Providing and laying in Position Plain cement concrete M15 grade 1:2:4 150mm average thick using 20mm graded down size granite aggregate, machine mixed, laid in layers for hard standing concrete including finishing the top surface even, well compacted including curing, compacting etc.,complete all as specified and directed by Engineer in charge. Note: The rate quoted by the Contractor for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Sq.M	2100.00		
16	Supplying ,fixing in position MS foundation bolts 16mm diameter and minimum 600mm Length inclusive of threading of required length, welding, machining including MS nuts & washer of required size and diameter for holding of rails and welding the bolts to the reinforcement to the correct line and level including neccessary hardware items etc., complete all specified and directed by the Engineer in charge .	Kgs.	1000.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
17	Providing and constructing 230mm thick/required thickness burnt brick masonry in cement mortar of mix proportion 1:6 using first class table moulded bricks for superstructure at required heights including tools & tackles, curing etc., complete all as specified & directed by Engineer in charge. Note: The rate quoted is deemed to include for providing & removal of scaffolding, staging/ladder wherever necessary and protective measures etc.	Cu.M	180.00		
18	Rendering/Plastering for the brick masonry wall / concrete surfaces in cement mortar of mix proportion 1:4, 15mm thick including tools & tackles, scaffolding as required for the work, necessary curing etc., complete as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing & removal of scaffolding/staging wherever necessary.	Sq.M	850.00		
19	Rendering/Plastering for the brick masonry wall / concrete surfaces in cement mortar of mix proportion 1:4, 20mm thick including tools & tackles, scaffolding as required for the work, necessary curing etc., complete as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing & removal of scaffolding/staging wherever necessary.	Sq.M	780.00		
20	Providing mixing and laying in position plain cement concrete of Mix proportion 1:2:4 of required thickness for coping/plinth concrete similar works using 20mm down graded granite aggregate machine mixed, compacted & top surface finished smooth & even using extra cement mortar, centering, shuttering as per site requirement etc., complete all as specified and directed by Engineer in charge.	Cu.M	20.00		
21	Providing and making 1000mm wide plinth protection 100mm thick in plain cement concrete 1:3:6 using 20mm graded granite aggregate, over a layer of broken brick ballast 75mm thick rammed, consolidated after binding with sand including preparation of base, finishing the top smooth etc, complete all as specified and directed by Engineer in Charge.	Sq.M	260.00		

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22	<p>Earth Filling :Supplying & filling the good quality earth/moorum in plinth, trenches, foundations or around plinth with approved good quality earth of non swelling type, free from organic materials, consolidating in layers of not more than 200mm including watering, and compacted to specified Proctor density using mechanical rollers. including maintaining moisture control and testing throughout filling process etc., complete all as specficed and directed by Engineer in charge.</p> <p>Note: Net consolidated volume shall be measured for payment puposes. Supply and spread approved fill material (earth/sand/gravel) in low-lying areas.</p>	Cum	1000.00		
23	<p>UPVC SLIDING WINDOWS: Providing and fixing new factory made UPVC white colour sliding glazed window of size approx 1.02mtr x 2.10 mtr in height dimension, with SS Flymesh shutter, manufactured by M/s NCL VEKA, Promonce , Encraft comprising of UPVC multi chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), fitted with 6.00 mm thick clear toughened glass, appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's</p>	Sqm	75.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
24	VDF FLOORING: Providing and laying in position 200mm average thick consolidating "Tremix" (VDF) vacuum compressed de-watered reinforced cement concrete 1:1.5:3 (1 cement, 1.5 coarse sand, 3 graded stone aggregate 20mm nominal size) for floors at all levels including groove cutting (6mm wide x20mm depth) filling with polysulphide compound/bitumen including laying plastic sheet for 125-micron thickness and necessary form work, necessary curing etc., complete all as specified and directed by Engineer in charge. Note:- 1) Reinforcement will be measured paid separately under relevant item. 2) Expansion Joint should be provided by officer in charge. 3) De-watering should be done while concreting. 4) Concreting cube test report from authorized laboratory shall be submitted compulsory	Sqm	2000.00		
25	RCC DRAIN: Design & Construction of RCC Storm water drain of approximate length 250mtr & 6" thick RCC walls with RCC/Precast cover slabs with proper slope to drain off rain water/surface water, the height of drain to be 0.9m to 1.20 mtr approx & finished width to be 0.60mtr & connecting to the nearest drain etc., Complete all as specified and directed by Engineer-in-charge. The scope includes earth work excavation for foundation trenches and getting out the excavated earth & disposal of debris outside the site premises, Providing & laying M10 Concrete for foundation sub base, Supplying & fixing of TMT rods for reinforcement of RCC walls, Providing & laying M20 concrete for RCC Walls, Providing centering/shuttering, necessary form work for side walls, associated civil works etc., Complete all as specified and directed by Engineer-in-charge. Note: 1) The quoted rate is deemed to include for providing & removal of scaffolding/staging wherever necessary. 2) The length of drain is taken as tentative, however, at the time of execution, measurement will be recorded based on	RMT	250.00		
26	Supplying, fabricating and fixing 3mm thick GI valley gutter of approximate width 1.50Mtr including bending to the required profile to suit the site conditions, welding and erecting to the required height & to the correct line and level and making the joints water tight using suitable sealant/adhesives with all necessary support viz., MS Brackets, structural steel etc., complete all as specified and directed by Engineer in charge. etc., complete all as specified and directed by the Engineer-in-charge	RMT	160.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
27	Providing & fixing 160mm diameter 6kg/cm ² PVC pipes manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for rain water downtake laid in gradient in walls including all standard PVC Fittings like elbows, bends, tees, tail pieces & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc fixed/ secured firmly etc.,complete all as specified and directed by Engineer in charge. Note: The rate quoted for the item deemed to include for Providing & removal of scaffolding, staging wherever necessary etc.	RMT	400.00		
28	Providing & fixing 110mm diameter 6kg/cm ² PVC pipes manufactured by M/s.Supreme/ Astral or equivalent conforming to relevant IS for rain water downtake laid in gradient in walls including all standard PVC Fittings like elbows, bends, tees, tail pieces & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc fixed/ secured firmly etc.,complete all as specified and directed by Engineer in charge. Note: The rate quoted for the item deemed to include for Providing & removal of scaffolding, staging wherever necessary etc.	RMT	400.00		
29	Supplying, fabricating and fixing in position 3mm thick GI funnels/spout of required diameter to fix to rain water gutters including welding to the gutters to ensure a leak proof joint with necessary hardware items, silicon sealant etc complete all as specified & directed by the Engineer-in-charge	Nos	150.00		
30	Preparing the newly plastered surface of internal walls by scrapping, sand papering, including necessary repairs to cracks, scratches and cleaning the surface from dust, dirt and filling/closing the cracks with crack filling compound and applying two coats of Plastic emulsion paint with a coat of primer and 3mm full putty of first quality approved brand and colour manufactured by M/s.Asian Paints/Berger paints etc., complete all as specified and as directed by Engineer in charge. Note: The rate is deemed to include for Providing & removal of scaffolding wherever necessary b) Wastages. 3) Removing all splashes, dirt, etc. and leaving premises in a clean state.	Sq.M	900.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
31	Preparing the old Painted surface of external walls including stucco area by water washing, sand papering/wire brushing including providing necessary repairs to cracks, and cleaning the surface from dust, dirt and filling/closing the cracks with suitable crack filling compound and applying two coats of exterior emulsion paint of first quality approved brand and colour manufactured by M/s. Asian Paints (Apex ultima)/Berger Paints after successively drying each coat over a coat of primer and touch up putty wherever necessary etc., complete all as specified and directed by Engineer in Charge. Note: 1) The rate quoted is deemed to include for providing and removal of scaffolding, staging/ladder, suspending jhoola wherever required and protective measures etc. 2) Cleaning the floor surface after painting. 3) wastages.	Sq.M	1200.00		
32	Supplying & Fixing Emergency Door with all standard hardware fittings & accessories, electrical connections if any etc., complete all as specified and directed by Engineer-in-Charge. MAKE: J C FIRE DOOR/ GODREJ SECURITY SOLUTION/ METAFLEX DOORS INDIA	SQM	10.00		
33	Construction of soak pits (01 Nos) of size 4'x10' depth by doing earth work excavation in all kinds of soil, concrete and installation of pit chambers/pre cast cement rings with covered top including all plumbing works, installation of PVC Pipes, and making provisions for connecting of pvc pipes including refilling back the excavated earth in sides of trench, including transportation all lead lift & disposal of debris outside the site premises etc., complete all as specified and directed by Engineer-in-Charge.	JOB	1.00		
34	Felling of tree, grubbing up the tree trunk exceeding 450cm to 600cm including cutting of trunk portion protruding over ground, digging out roots, filling holes and levelling ground including cutting of trunk, branches including disposal of debris/unserviceable surplus earth outside the site premises to a distance not exceeding 5.0KM which is not objected by any civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in charge.	Nos	30.00		

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35	Cutting of tree branches at heights up to a length of 3.0M to 5.0Mtrs and stacking of serviceable materials & disposal of unserviceable materials to a distance not exceeding 50Mtrs apart & cleaning the site etc, complete all as specified and directed by Engineer in charge.	Nos	100.00		
B	ELECTRICAL WORKS				
1	Supply, erection, installation of Main LV panel comprising of the following: Incomer - 200 Amps, TP&N SDFU - 01 No. Outgoing Feeders - (a) 125 Amps TPN SDFU - 02 No's, (b) 63 amps TPN SDFU - 04 No's Note: The panel shall be made of heavy guage CRCA sheet metal enclosure, suitable rated Aluminium bus bars, shall consist of RYB (3 phase), ON/OFF indications, digital multifunctional meter, required control circuits, complete internally prewired, bus bar chamber, cable entry chamber/cable alley, MS base frame, etc... complete	Nos	1.00		
2	Supply and fixing of 125 Amps, 415V AC, 3P+N Switch disconnector Fuse units/Switch Fuse units with rated HRC fuses in sheet metal enclosure, with Operating handle, top/bottom cable entry provisions, earthing terminals, etc... with required MS frame work for fixing the same on wall/pillar.	Nos	1.00		
3	Supply, fixing of single/double door VTPN MCB DB comprising of the following: 4 way MCB DB shall comprise the following: Incomer - 32 Amps TPN MCB, C curve - 01 No. Outgoings - 10 Amps SP MCB, C curve - 12 No's and shall comprise of neutral and earth terminals / connectors, interlinks and complete internally wired.	Nos	3.00		
4	Supply & fixing the following industrial socket boxes comprising bus bar chamber with suitable rating AL bus bars, compartmentalized, made out of sheet steel metal enclosure with earthing terminals, internally wired, necessary accessories for mounting the same. The rate shall be inclusive of MS angle framework of required size for mounting the plug & socket box on PEB columns/walls with welding, grouting as per site conditions.	Nos	2.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
	Note: Plug and socket box each comprising i) 01 No. 32 Amps 3P+E industrial metal clad plug and sockets each controlled by 32 amps, 3P+N MCB ii) 02 No's. 10 Amps, 1P+N+E industrial metal clad plug and socket each controlled by 10 Amps, 2pole MCB				
5	Supply, fixing 120 watts, energy efficient LED high bay roof light fixtures on roof truss with all required hardwares such as MS L-angles, down rods, stainless steel s-hooks etc..	Nos	40.00		
6	Supply and fixing of 2 x 20 watts, 4 feet, LED, twin, surface mounted light fixtures including all required accessories / hardwares such as down pipes, ceiling rose, junction boxes, etc...	Nos	3.00		
7	Supply & fixing 1200 mm sweep, energy efficient, BLDC type ceiling fans, no. of blades-3, with electronic regulator, with all required accessories such as ceiling rose, junction boxes, etc....	Nos	3.00		
8	Supply, laying and end terminations of 1.1KV grade, 3.5 C x 95 sqmm, Aluminum, armoured, XLPE insulated cable by breaking hard concrete, carrying out earth excavation to a depth of 500mm, laying the cable, filling back with soil and finishing the floor with cement concrete to as is basis condition.	RMT	150.00		
9	Supply, laying and end terminations of 1.1KV grade, 4C x 16 sqmm, copper flexible cable on walls/pillars neatly laid, clamped and dressed with all necessary hardwares... complete (To Power Socket boxes & MCB DB's)	RMT	150.00		
10	Supply, laying of 3C x 1.5 sqmm, 1.1 KV grade, Copper flexible cable, laid in 1" PVC conduits, neatly laid on walls/pillars, stanchions, clamped and dressed at equal intervals with all required hardwares, junction boxes etc... complete. (To High bay LED lights).	RMT	800.00		
11	Supply and fixing of following type switch and sockets combined with boxes (Modular type), internally wired flush/surface mounted on walls/pillars/work stations	Nos	6.00		
	Switch box each comprising 03 no's - 6A socket with 01 no. - 6A switch and 01 RJ 45 port (computer points)				
12	Supply and fixing of following type switch and sockets combined with boxes (Modular type), internally wired flush/surface mounted on walls/pillars/work stations	Nos	3.00		
	Switch box each comprising 01 No. - 6A socket controlled by 01 no. 6A switch (pedestal fans / charging points)				

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13	Supply and fixing of following type switch and sockets combined with boxes (Modular type), internally wired flush/surface mounted on walls/pillars/work stations	Nos	2.00		
	Switch box each comprising 02 no's-6/16A sockets and 02 no's-16A switches each individually controlled (printer/xerox, heating points)				
14	Supply and fixing of following type switch and sockets combined with boxes (Modular type), internally wired flush/surface mounted on walls/pillars/work stations	Nos	3.00		
	Switch box each comprising 04 no's- 6A switches, 02 no's. 6A sockets, 01 electronic fan regulator (for light points, ceiling fans, mobile/laptop charging points)				
15	Point Wiring: Supplying and making point wiring using 750V/1100V grade, PVC insulated, FRLSH, flexible multistrand copper wires in Cap on casing/ PVC conduits. (Rate shall include all required accessories such as PVC bends, collars, T-joints, JB's, etc... complete as per site conditions).	RMT	800.00		
	2R x 1.5 sqmm copper wires, 1R x 1.5 sqmm earth wire (green) (For office lights, fans and computers)				
16	Point Wiring: Supplying and making point wiring using 750V/1100V grade, PVC insulated, FRLSH, flexible multistrand copper wires in Cap on casing/ PVC conduits. (Rate shall include all required accessories such as PVC bends, collars, T-joints, JB's, etc... complete as per site conditions).	RMT	300.00		
	1R x 4.0 sqmm + 1R x 2.5 sqmm (black) + 1R x 1.5 sqmm earth wire (green) (For heating points, xerox/printers)				
17	EARTHING: Supply and making earth pit by excavating in hard concrete / soft soil to a depth of 2.5 mtrs, inserting B class, GI pipe electrode 50 mm dia, connecting with 25x6 mm GI flat and filling with alternate layers of salt and charcoal, back filling with soil, (or) equivalent chemical earthing, making cement concrete chamber, covering with heavy guage MS chequered plate / RCC slab.	Nos	1.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
	Note:- 1) The rate quoted for the above items is deemed to include for providing and removal of scaffolding/staging wherever necessary. 2) The contractors/ prospective bidders shall visit the site and acquaint themselves with the site conditions before submission of bid/ quote. 3) The contractor to note that the dismantled materials should be removed and shifted immediately from the site premises without disturbing the regular office atmosphere in the area and the rate is deemed to include for the same. 4)The L-1 Contractor shall survey the topography of the area & submit the survey report & to submit design, drawings of the proposed work before execution. 5) The firm shall make own arrangement for transporting/shifting of old dismantled items to salvage stores/ debris outside the site premises. 6) The scope includes Structural design of foundation, superstructure as per IS codes considering SBC of soil/soil test report. Discussion with BEML regarding the same and suggesting the most economical & feasible option to Beml considering the availability of materials & life of structure. Submission of structural design report with third party certification of design from reputed Government/semi-government institutes,IITs,NITs etc.,				
	Total value of work excluding GST (Rs).				
	GST (Rs).				
	Total value of work inclusive of GST (Rs)				

(Total Amount in words Rupees.....
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Signature of the Contractor with seal