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**TENDER DOCUMENT
FOR**

**THE CONSTRUCTION OF BUILDING
FOR TRAINING INSTITUTE OF CANARA BANK
CENTENARY RURAL DEVELOPMENT TRUST
AT VAJRAHALLI**

VOLUME-II- Price Bid containing Bill of Quantities

ARCHITECTS & CONSULTANTS

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ISSUED TO _____

PROPOSED CONSTRUCTION OF TRAINING CENTRE FOR CANARA BANK RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT VAJARAHALLI , KARNATAKA		
Sl. No.	Particulars	Amount(Rs.)
1	EARTHWORK	
2	ANTITERMITE TREATMENT	
3	CEMENT CONCRETE AND STEEL REINFORCEMENT	
4	MASONARY WORKS	
5	STEEL/AL WINDOWS	
6	WOOD WORKS	
7	ROOFING WORKS	
8	WATERPROOFING	
9	SANITARY WORKS	
10	WATER SUPPLY WORKS	
11	FLOORING WORKS	
12	FINISHING WORKS	
13	MISCELLANEOUS WORKS	
14	ALLIED WORKS	
15	U.G.SUMP & O.H.T	
16	ELECTRICAL WORKS	
	TOTAL (INCULDING TAXES)	
(Rupees-----)		
-----)		

SCHEDULE OF QUANTITIES					
PROPOSED CONSTRUCTION OF TRAINING CENTRE FOR CANARA BANK RURAL SELF EMPLOYMENT TRAINING INSTITUTE					
SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
1.00	EXCAVATION WORKS				
1.01	Earthwork in excavation for Foundation of Column footing, Wall footing, Stone Masonry, Pillars ,Retaining walls etc., in ordinary/ hard soil (all Kinds of soils), boulders, old foundations etc all as given below including all lead and lift with necessary shoring & transporting surplus earth inside and outside the site as per local municipal byelaws, as directed after retaining the required earth for filling and levelling the site & stacking as directed inside the premises, etc. complete as per design drawing and direction of Architect/Client.For required depth as given below, necessary shoring/ strutting for the excavated sides shall be done to avoid caving in of earth. Dewatering, Backfilling by available earth inside of foundation, site levelling, compaction etc. is also to be included in this item.				
	Not Exceeding 1.5m depth	CUM	192.5		
1.02	Same as above but from 1.5m to 2.5m depth	CUM	62		
1.03	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labor complete as per specifications .	CUM	140.00		
1.04	Filling earth brought from outside (in deposited soil and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m.including cost of labour complete as per specifications.	CUM	64.00		
1.05	Disposal of Excess Excavated material outside the Site Premise all as directed including Loading, Unloading, Stacking, Spreading etc. complete all as directed by the Architect & Client . The Lead/Distance of site of disposal is as per the location earmarked for the same by Corporation & details of the same to be obtained & ascertained while quoting the rate for the same.	CUM	66.00		
1.06	Spreading and forming the excavated earth to required level, slope for an average thickness of 75mm. In all classes of soils around the building and low laying areas complete as per specifications. Specification No. KBS	CUM	102.50		
	Sub total carried to summary				
2.00	ANTI TERMITE TREATMENT				
2.01	Providing and injecting chemical emulsion for Pre- Constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20 % concentration, including cost of chemical, diluting in water to one percent concentration, labor, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured)				
	Area of newblock	SQM	479.50		
	Sub total carried to summary				
3.00	CEMENT CONCRETE				
	PCC WORKS				
3.01	Providing and laying in position plain cement concrete of mix 1:4:8 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation, floor bed , including cost of all materials, labor, HOM of machinery, curing complete as per specifications.	CUM	117.50		
3.02	Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	CUM	3.50		
	RCC WORKS				
3.03	Providing and laying in position machine batched , machine mixed and machine vibrated design mix Concrete confirming to IS :10262- 2009 of specified grade (unless otherwise specified), for reinforced concrete structural elements, as per relevant IS specifications, using 20mm and down size graded granite jelly for RCC works, including admixtures if any in recommended proportions to accelerate, retard setting of concrete, improve workability without impairing strength and durability, laid in layers and well compacted, machine batched, machine mixed, vibrated, curing, including necessary steel/ plywood/ plank centring,shuttering, form works and scaffolding with all lead, lift at level as specified etc. complete as per design, drawing and direction of Architect / Client [excluding the cost of steel reinforcement and fabrication charges] for the following works.				
	The Mix Design of various grades of concrete shall be got done by the contractor at his cost from reputed Institutions / Laboratories with approval of the Architect / Trust for further implementation in the site.				
	RCC M 20 grade to be used for all RCC works				
a	Footings	CUM	54.00		
b	Plinth beams	CUM	32.00		
c	(Pedestal Column concrete in foundation)+ (Columns above plinth)	CUM	42.00		
d	Providing RCC loft (atta) 7.5 cms thick	SQM	31.50		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
e	Providing RCC Chejja's /Cills 7.5 cms thick	SQM	47.00		
f	For Lintels	CUM	11.50		
g	Staircase / Landing / Stair flat Sofit	CUM	4.50		
h	For roof beams/slabs	CUM	139.00		
3.04	STEEL REINFORCEMENT				
	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and /or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (the rate should include laps, wastage and chairs - no extra payment is permissible fo rlaps, wastages & chairs) cost of materials, labour, HOM of machinery complete as per specifcations				
	As per design				
	Rate	MT	28.50		
	Sub total carried to summary				
4.00	STONE WORK /BRICK WORK				
4.01	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at two m.apart in each course including cost of materials, labor, curing complete as per specifications.	CUM	70.00		
	wall foundation				
	new block				
4.02	Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 35 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	CUM	165.00		
	Ground newblock				
	230 wall				
4.03	Construction of partition wall 11.2 cms thick with non modular table moulded burnt bricks of class designation 35 with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Sqm	160.00		
	Ground newblock				
	Sub total carried to summary				
5.00	STEEL AND ALLUMINIUM WORK				
5.01	Providing and Fixing MS Safety Door using MS angles of size 50mm x 50 mm x 5mm as outer frame, 25mm x 25 mm MS Tubes allround, diagonal & horizontal inbetween support for fixing 1mm thk MS Sheet including Two Coats of Enamel painting over one coat of red oxide primer , fixing to the walls in 1:2:4, curing complete.Schedule of fittings:Handles: MS Handle Lock: Aluminum Aldrop Hinges: 3 Nos MS Hinges Tower Bolts: 1 Nos - 150mm MS Towerbolt terrace Door	Sqm	2.50		
5.02	Providing and fixing M.S. Grill work for windows and ventilators using M.S.flats, and M.S. square rods, or combination of M.S flats and square rods as per approved design and drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, two coats of enamel painting of approved colour, cost of material, fixtures, labour and HOM machinery complete as per specifications.	Sqm	91.00		
5.04	Providing and fixing in position Anodized aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3mm, thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick .417kg./m;shutter outer side 40mmx18mm, 1.25mm, thick weight 0.417kg/m, shutter interlock section 40mmx26.7, 1.1mm thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc,				
	and providing and fixing 5.5mm thick plain glass (Pin headed glass for Ventilators) for shutters fitter with rubber beading aluminium sections anodized 12 to 15 microns, including cutting to required length, joints mitred subdividing the frame tenoned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any other sticky materials (the coating should be cleaned after installation) including cost of all materials, fixtures, labour and HOM of machinery complete as per specifications.	Sqm	91.00		
5.05	Providing and Fixing M.S. Ladders upto 12' height using 50mm dia MS pipes as per design and drawing, including fixing in CC 1:2:4 to concrete / wall surface, 2 coats of enamel paint over 1 coat of zinc oxide primer, etc complete.	Nos	1.00		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
5.06	Providing and fixing in position collapsible steel shutters with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10cms c to c applying a priming coat of red lead paint, two coats of enamel painting of approved colour, cost of all materials, labor, HOM of machinery complete as per specifications. Schedule of fittings: Handles: MS Handle Lock: Latch	SQM	7.50		
5.07	Providing, fabricating, assembling and fixing in position anodized aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 63.5 X 38.10mm thickness 1.15mm , section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 1.15mm, section weight 1.505kg/m, top section 47.62 x 44.45mm thickness 3.00mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 1.15mm, section weight 1.495 kg/m; aluminium sections anodized 12 to 15 microns cut to length joint metred corners grinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots; P.V.C or rubber gasket with 5.5m thick plain glass for top and bottom panel, aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials, the assembled frame fitted with the corner angles, strips and fitted w	SQM	4.00		
Sub total carried to summary					
6.00	WOOD WORK				
6.01	Providing and fixing Second Class Indian Teakwood fully panelled doors with frame of size 125mm x 75mm and styles and rails 40mm thick with panels of 25mm thick as per design and drawings including teak wood beading fixed in masonry with 40mm x 5mm flat iron hold fasts 40cms long embedded in CC 1:3:6 with granite metal of size 20mm and down 15cms thick, including fittings such as brass tower bolts, Brass hinges, etc., complete with all lead and lift, including T/W polishing with 2 coats . (Including Providing and Fixing of Fixtures and Godrej Locks) Schedule of fittings: Handles: Wooden Handle Lock: Godrej Cylindrical Lock / Decorative aldrop bolt Hinges: 6 Nos Brass Hinges Tower Bolts: 4 Brass Stopper	SQM	3.50		
6.02	Providing, fabricating, assembling and fixing in position Anodoised Aluminium Partly Glazed doors using following aluminium matt finish or glossy finish, outer frame plain section 101.6x44 45mm thickness 1.5mm , section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm.section weight 1.426kg/m bottom section 114.3x44.45 thickness 1.50mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 1.50mm, section weigh 1.495 kg/m glazing clips 19x17.31x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections anodoised 12 to 15 microns cut to length joint metered comes grinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted.providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots / floor springs,				
	P.V.C or rubber gasket with 5.5m.thick plain glass for top and bottom panel to be fixed with 12mm thick prelaminate sheet(exterior grade)(Novaoan) of approved colour, aluminium sections treated for removal of any rust and prevention of further rust formation and coated with greasy materials; the assembled frame fitted with the corner angles, strips and fitted with screws, raw plugs or teakwood gutties to R.C.C columns or masonry on sides, beams and flooring in bottom including cutting, chistling and making good with cement mortar to match rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Schedule of fittings: Handles: Anodized Aluminum Handle Lock: Godrej Mortise Hinges: 6 Nos Aluminum - Heavy Guage Tower Bolts: 2 Nos Anodized Aluminum Closers: Evertite or equivalent Door Closer				
		SQM	16.50		
6.03	Providing and fixing Salwood Frame of size 125mm x 65mm & door shutter of minimum 30mm thick water proof block board (ISI marked) with 1.00mm thick both side laminate of approved make and colour, as per design and drawings including teak wood beading fixed in masonry with 40mm x 5mm flat iron hold fasts 40cms long embedded in CC 1:3:6 with granite metal of size 20mm and down 15cms thick, including fittings such as SS tower bolts, hinges, etc., complete with all lead and lift, including two coats of enamel paint over one coat of primer of approved colour. Schedule of fittings: Handles: SS Handle Lock: Godrej Cylindrical Lock Hinges: 6 Nos SS Hinges - Heavy Guage Tower Bolts: 2 Nos Stainless Steel Stopper	SQM	7.00		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
6.04	Providing and fixing factory made single leaf rigid GRP Sandwich composite door with frame of size 125mm x 65mm & shutter of 32mm thick, laminated with two GRP skins with wood finish, fabricated using U. V - stabilized Isophthalic Gelcoat and on layer of 450 gsm E- Glass Chopped strand Mat (CSM), impregnated with orthophthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 29mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not less than 28mmx32mm and also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles etc, shall be provided.				
	A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforcement and the skins. The material and process for manufacturing the door shutters shall confirm to RV/TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confirmation to IS 4020-1994. The finish of shutters will be plain colour White/Ivory/Beige/Light Grey or any other colour using high quality pigments. Including cost of fixtures and inclusive of supply of shutters to respective work spot.Schedule of fittings: Handles: Aluminum Handle Lock: Aluminum Aldrop Hinges: 3 Nos Aluminum Hinges Tower Bolts: 1 Nos - 150mm Aluminum Towerbolt	SQM	10.00		
Sub total carried to summary					
7.00 ROOFING WORKS					
7.01	Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. rain down water pipes 110mm outer dia. Approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications.	RMT	28.00		
Sub total carried to summary					
8.00 WATER PROOFING					
8.01	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs,balconies,terraces etc,consisting of following application (a) A pplying and grouting a slurry coat of neat cement using 2.75kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment.(b)Laying cement concrete using broken brick bats 25mm to 100mm size with 50 % of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls up to 300mm height including rounding off junctions of walls and slabs.(c) After two days of proper curing,applying a second coat of cement slurry admixed with proprietary water proofing compound				
	(d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials,labour complete as per specifications	SQM	450.00		
Sub total carried to summary					
9.00 SANITARY WORKS					
9.03	Providing and fixing 110mm dia PVC SWR pipe of approved make (Supreme Make) with bends, Tee and joints with solvent including scaffolding etc, complete (excluding the cost of specials) as per directions.	RMT	25.00		
9.04	Providing and fixing 160mm dia PVC SWR pipe of approved make (Supreme Make) with bends, Tee and joints with solvent including scaffolding etc, complete (excluding the cost of specials) as per directions.	RMT	35.00		
9.05	Providing and fixing 75mm dia PVC SWR pipe of approved make (Supreme Make) with bends, Tee and joints with solvent including scaffolding etc, complete (excluding the cost of specials) as per directions.	RMT	50.00		
9.06	Constructing brick masonry inspection chamber 450 x 450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table molded non-modular bricks of class designation 35 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labor charges, curing complete as per specifications.	Nos	5.00		
9.07	.-do- 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table molded non-modular bricks of class designation 35 in cement mortar 1:5, C.I cover with frame (light duty) 600x600mm	Nos	4.00		
9.08	.-do- 230x150mm and 450mm depth (clear inside dimension) for single pipeline, using table molded non-modular bricks of class designation 35 in cement mortar 1:5, C.I cover with frame (light duty) 230x150mm	Nos	5.00		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
9.09	Constructing brick masonry circular type manhole 1.22 m internal dia at bottom 1.68m deep and 0.56m dia at top, with table moulded and non-modular bricks of class designation 35 in cement mortar 1:4 inside cement plaster 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete 1:3:6 mixed using 40mm and down size granite metal and making necessary channel in cement concrete 1:2:4 mix with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to IS :12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately)	Nos	2.00		
9.10	-do- 1.22m internal dia, at bottom 2.29m deep	Nos	2.00		
9.11	Providing 20mm square M.S footrest and fixing in manhole with 1:3:6 cement concrete block of 20x20x10cms using 20mm and down size metal of size including cost of materials, labor charges, curing complete as per specifications.	Nos	32.00		
9.12	Providing stoneware gully trap of approved quality and make fixing in CC 1:2:4 and plastering with CM 1:3 wherever necessary (Rate includes cost of all materials, fixtures and lead) for 15 cms x 10 cms	Nos	7.00		
9.13	Providing and fixing 110 X 75 mm dia PVC SWR reducer socket (Supreme Make or equivalent approved make)	Each	6.00		
9.14	Providing and fixing PVC SWR Vent Cowl 110 mm (Supreme Make or equivalent approved make) including fixing with solvent complete.	Each	4.00		
9.15	Providing and fixing 110mm dia PVC SWR plain bend. (Supreme Make or equivalent approved make)	Each	10.00		
9.16	Providing and fixing 75mm dia PVC SWR plain bend. (Supreme Make or equivalent approved make)	Each	10.00		
9.17	Providing and fixing 110mm dia PVC SWR door Tee. (Supreme Make or equivalent approved make)	Each	6.00		
9.18	Providing and fixing 75mm dia PVC SWR door Tee. (Supreme Make or equivalent approved make)	Each	4.00		
9.19	Providing and fixing 110mm dia PVC SWR plain Tee. (Supreme Make or equivalent approved make)	Each	8.00		
9.20	Providing and fixing 75mm dia PVC SWR plain Tee. (Supreme Make or equivalent approved make)	Each	8		
9.21	Providing and fixing PVC 75mm size Nahani Trap of approved make (Supreme) conforming to ISI Specifications and construction of Cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot)	Nos	4.00		
9.22	Constructing brick masonry grease trap 600x600mm and 900mm depth, (clear inside dimension) for single pipeline, using table molded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per design including cost of materials, labor charges, curing complete as per specifications.	Nos	1.00		
9.23	Providing and fixing white vitreous china clay, water closet European type (pedestal type, p/s-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 liter low level, P.V.C flushing cistern (all are approved make) with fittings, C.I /M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labor complete as per specifications.Hind Ware - CAT NO 20011 Cistern - Hindustan Sleek or equivalent approved make	Nos	2.00		
9.24	Providing, fixing and testing white vitreous china clay Pedestal wash basin of size 550x400mm with materials, labor complete as per specifications. Make:Hindware Cat No: 11018	Nos	4.00		
9.25	Providing and fixing 110mm dia PVC SWR door 45 degree bends. (Supreme Make or equivalent approved make)	Nos	4.00		
9.26	Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 liter low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labor complete as per specifications.	Nos	5.00		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
9.27	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 600mm ht with Push Cock, Z type CI brackets, standard flush pipe and CP integrated spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Parry ware Magnum Urinal CAT 0574 or equivalent approved make Dome Waste 32mm dia CP Spreader Concealed Brackets	Nos	4.00		
9.28	Supplying and fixing Urinal partitions with jet black granite(polished on both sides) of 18mm thk of size 1200mm X 600mm including round nosing with fixing in CM 1:3 to the wall, complete with curing etc	Nos	4.00		
9.29	Providing and Keeping in stores, Shifting to the Place of installation and fixing testing and commissioning of 50% colour vitreous china oval counter top/ bottom wash basin installed with marble/Granite counter and bracket 15mm single lever basin mixer (jaguar conti Range) 15mm dia - 450 mm long PVC connection pipe one no 15mm dia CP angle stop cock with wall flange , 32mm dia CP waste coupling, 32mm dia CP brass bottle trap . The works Shall include cutting and making good the walls and floors (counter cost for wash basin not considered) (Hindware)Notes : The rates quoted shall include cost of necessary consumables like brass screws, CP extension nipple of approved make dia and length wooden plugs, white cement sealents etc ; Only drilling machines shall be used for making the holes in the walls for fixing no wall jumpers and hammer will be allowed	Nos	5.00		
9.30	Providing and Fixing shelves using 18mm thick Granite for shelf as well as counter top / bottom & wall with polished edges, full round Single / Double bull nosing including necessary hardwares etc complete as per Architects details & Drawing (Measurement shall be considered Length x Breadth) (Basic price: 150/- sft.) Hole cutting with half nosing to fix the sink and faucet with POP covering till commissioning	SQM	1.00		
Sub total carried to summary					
10.00	WATER SUPPLY WORKS				
10.01	Supply, fixing and testing of approved make Health faucet fixed to 15mm dia CP angle stop cock with wall flange with 1 mtr pipe and wall hook etc complete. Jaguar Continental CAT NO 563 or equivalent approved make	Nos	6.00		
10.02	Providing and fixing in position CP Angular stop cock of approved quality 32mm nominal bore including cost of all materials, labor and HOM of equipments with all leads complete Jaguar Continental - CAT NO 051 or equivalent approved make	Nos	12.00		
10.03	Providing and fixing in position CP Concealed stop cock of approved quality 32mm nominal bore including cost of all materials, labor and HOM of equipments with all leads complete	Nos	6.00		
10.04	Providing and fixing in position CP Long Body bib cock of approved quality 15mm nominal bore including cost of all materials, labor, and HOM of equipments with all leads complete as per specifications. Jaguar Continental - CAT NO 035 or equivalent approved make	Nos	9.00		
10.05	Providing and fixing in position CP Pillar cock of approved quality 15mm nominal bore including cost of all materials, labor and HOM of equipments with all leads complete as per specifications. Jaguar Continental - CAT NO 011 or equivalent approved make	Nos	6.00		
10.06	Providing and fixing stainless steel high gloss kitchen sink conforming to IS 13983 : 1994 of size 500x1000mm bowl depth 200mm ,with single bowl drain board, M.S(C.I) brackets, stainless steel plug 40mm, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labor complete as per specifications. Make: Hindware	Nos	1.00		
10.07	Providing and fixing C.P. brass towel rail 740mm length, 20mm dia with c.p brackets, fixed to wooden cleats with c.p. brass screws including cost of materials, labor complete as per specifications.	Unit	5.00		
10.08	Supplying and fixing CP brass twin Robe hook fixed to wall / door with CP brass screws etc complete.	Nos	7.00		
10.09	Supplying and fixing Recessed Type White soap dish of approved shape and size fixed into wall with CM 1:3 etc complete. Hindustan - CAT NO 40052 or equivalent approved make	Nos	3.00		
10.10	Providing and fixing 7.5 cms x 15 cms dia NP grating 100mm dia	Each	10.00		
10.11	Providing and fixing 600x450mm dia rectangular shape mirror with plastic molded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labor complete as per specifications	Nos	5.00		
10.12	Providing and fixing to wall, ceiling and floor galvanized / mild steel tube 15mm dia nominal bore excluding cost of fittings, (medium grade weight 1.27 kg/mtr) B class including cost of all specials, cost of all materials, labor charges, HOM of equipments and testing complete as per specifications.	Rmt	20.00		
10.13	- do - to wall, ceiling and floor galvanized / mild steel tube 15mm dia nominal bore excluding cost of fittings, cost of all specials (medium grade weight 1.65 kg/mtr)	Rmt	80.00		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
10.14	- do - to wall, ceiling and floor galvanized / mild steel tube 20mm dia nominal bore excluding cost of fittings, cost of all specials (medium grade weight 1.65 kg/mtr)	Rmt	120.00		
10.15	- do - to wall, ceiling and floor galvanized / mild steel tube 25mm dia nominal bore excluding cost of fittings, cost of all specials (medium grade weight 2.51 kg/mtr)	Rmt	120.00		
10.16	- do - to wall, ceiling and floor galvanized / mild steel tube 40mm dia nominal bore excluding cost of fittings, cost of all specials (medium grade weight 3.72 kg/mtr)	Rmt	50.00		
10.17	Providing and fixing in trenches galvanized / mild steel tubes (medium grade) 25mm dia nominal bore with all fittings (earthwork in trenches to be measured and paid separately) including cost of all materials, cost of all specials, labor charges, HOM of equipments and testing complete as per specifications.	Rmt	20.00		
10.18	Supplying and insulating hot water lines with Asbestos insulation rope etc., complete as per directions of the engineer.	Rmt	9.00		
10.19	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality 25mm nominal bore including cost of all materials, labor charges, HOM equipment with all leads complete as per specifications.	Each	1.00		
10.20	Providing and fixing in position brass gate valve with CI wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labor charges, HOM equipment with all leads complete as per specifications.	Nos	6.00		
10.22	- do - for 40 mm	Nos	2.00		
Sub total carried to summary					
11.00	FLOORING				
11.01	Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with non shrink tile grout using color pigment, including cost of Materials, labor, curing, complete as per specifications - Size 30 X 30 cms - (Basic Cost - Rs. 28 / ft ²)	Sqm	33.50		
11.02	Providing skirting, dado, rises of steps with color glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with non shrink tile grout slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labor, complete as per specifications.. (200mm X 300mm) (BP Rs 40/- per Sft)	Sqm	103.00		
11.03	Providing Vitrified tiles 60cms x 60cms of approved make shade and size for flooring laid on a bed of 20mm thk cement mortar 1:3 mix, flush pointing with non shrink tile grout using color pigment, including cost of materials, labor, curing, complete as per specifications (Basic cost of tiles Rs 45/- per sft)	Sqm	242.00		
11.04	Same as above but skirting - 100mm high	Rmt	172.50		
11.05	Flooring with 25mm polished Kota slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigmet to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications.	Sqm	162.50		
11.06	Providing and laying Skirting of Kota slabs & 100 mm or 4" ht with in CM 1:3 and 12mm / 1/2" thick mortar including cement float, filling joints with cement slurry, curing, rubbing, cleaning etc. complete all as per drawing, design and as per direction of Architect/Client.	Rmt	212.50		
11.07	Providing and Laying Mixed oxide Cement Flooring with 2" thick Screed Cement concrete Base of proportion 1:2:4 using 12 - 15mm and down size granite jelly with CM 1:3 plastering on top surface mixed with TATA make mixed Oxide material as per manufacturer's specifications for mixing the colour and curing including finishing with Cardinal polish etc., complete (For Flooring)	Sqm	52.00		
11.08	Flooring with 25mm thick polished Kota slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigmet to match the shade of the slab, including making Groove for 3 lines, cost of materials, labour, curing, minimum 5 coats of polishing, including half round bull nosing, complete as per specifications.(For Entrance Steps/Stairs)	Sqm	49.00		
11.09	Providing and fixing 40mm Polished Cuddapah Slabs using cement mortar 1:6, jointed with cement slurry mixed with pigmet to match the shade of the slab, including full round bull nosing, cost of materials, labour, curing, polishing complete as per specifications.(For Counters)	Sqm	15.00		
11.10	Providing and laying flooring 40mm thick, with an under layer of 30mm thick 1:2:4 cement concrete using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with cement mortar 1:3 finished with floating coat of neat cement, including cost of materials, labour, curing complete as per specifications. (Flagging Concrete)	Sqm	106.00		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
Sub total carried to summary					
12.00	FINISHING WORK				
	PLASTERING AND PAINTING				
	The rates quoted for all plastering works shall include for providing grooves as directed & at junctions of surface of concrete/masonry [i.e. at Columns & walls, Beams & walls etc.] and at such junctions Chicken mesh (paid separately) shall be fixed with M.S. 'U' Clips for a Width of 150mm / 6" Wide or as directed on each surface, before plastering is done. The rates also include for necessary scaffolding curing etc., complete including necessary all plaster grooves of required width/thickness wherever required/ architectural drawings, in line and level including neat finishing, smooth lime rendering /neeru finish, making good of plaster after laying of Electric conduits, Plumbing Lines etc. etc., complete at all heights as per design drawing and direction of Architect/Client				
12.01	Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth Lime rendering, : providing and removing scaffolding, including cost of materials, labor, curing complete as per specifications	Sqm	661.29		
12.02	Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth Lime rendering, providing and removing scaffolding, including cost of materials, labor, curing complete as per specifications. (For Internal Walls)	Sqm	1295.00		
12.03	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6, to brick masonry for base of dadoing with sand of approved quality, providing and removing scaffolding, including cost of materials, labor, curing complete as per specifications. (Rough Plastering for Toilets)	Sqm	103.00		
12.04	Providing 18mm thick Sponge finished (Sand faced) plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required, providing and removing scaffolding, including cost of materials, labor, curing complete as per specifications, including parapet walls. (For External Walls)	Sqm	772.00		
12.05	Providing and laying 50mm / 2" thick fascias / drops for sides of chajjas, roof drop etc. in lath and plaster with CM 1: 3 (1 cement : 3 fine aggregate) including finish etc. complete including chicken mesh (single layer) of gauge 20x12.5 mm with water proofing compound including shuttering, centring etc., complete at all height including necessary scaffolding as per design drawing and direction of Architect/Client. (Reinforcement Steel to be measured and paid under relevant tender item) - depth of fascia: 0.6m	Rmt	15.00		
12.06	Providing Drip Molding with Plastering of 25mm x 10mm in cement mortar 1:4 with smooth rendering for projected surfaces, including providing and removing scaffolding, cost of materials, labor, curing complete as per specifications.	Rmt	196.00		
12.07	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including one coat of readymix putty, priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labor, complete as per specifications (For ceiling)	SQM	661.00		
12.08	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including one coat of readymix putty, priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labor, complete as per specifications For wall (internal plaster qty)	SQM	1294.00		
	For walls				
12.09	Providing and painting two coats of External Emulsion of ACE paint or approved equivalent make and quality and color and shade over one coat of primer including providing and removing necessary scaffolding and cleaning the paint stains wherever necessary etc., complete including the cost and conveyance of all materials, cost of labor for all items or works.	SQM	771.00		
Sub total carried to summary					
MISCELLANEOUS WORKS					
13.01	Providing and fixing MS steel hand rails for a height of 900 mm using m 62.50mm dia of 16 gauge for top measure and verticals at 1.50m C/c and 50mm dia of 16 gauge MS pipes of 2 rows below using HOLLOW section / tubular section including cutting, welding, bending wherever necessary with suitable caps at top and bottom etc., complete finishing . complete as per technical specification and as per drawing as directed by the Engineer-in-charge of work	RMT	8.00		
Sub total carried to summary					
14.00	ALLIED WORKS				

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
14.01	Providing and fixing M.S.Gate for Compound Wall using MS.box sections, MS Angles, M.S. square Brite rods , flats, heavy duty wheels, using cast iron for ornamental designs, as per approved design, drawing including cutting steel sections and welding same to required pattern with a coat of red lead primer, two coats of enamel paint, cost of material, fixtures, labour and HOM machinery complete as per specifications.	SQM	10.00		
14.02	Providing and fixing Structural Steel work (ISMC) welded in vertical supports for fixing gates including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel sections as per design and drawings as per IS Specifications including centering, shuttering, staging etc complete.Note:Concrete qty is separately considered in respective item	MT	0.20		
14.03	Earthwork excavation, cutting in all soils for 150mm depth & Filling earth brought from outside (Red Earth) for 150mm depth in layers , compacting, levelling each deposited layer by ramming after watering and making the surface good for laying Interlocking Tiles, including cost of labour complete as per specifications.	CUM	55.00		
14.04	Providing and laying heavy duty Cobble stones 60mm thick interlock pavers of Techinc / Parijatha make using cement and coarse sand for manufacture of blocks of approved size, shape and color with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tones compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of pavers surface joints into its final level, including cost of materials, labor and HOM of machineries complete as per specifications.	SQM	370.00		
14.05	Providing and fixing pre cast solid cement concrete kerb stone made out of C.C 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos	270.00		
14.05	Providing and constructing Chappadi Box Drains using 100mm thk hammer dressed rough dressed granite, with bottom width of 0.6m, sides with 0.75m and top cover with 0.9m, including earth work excavation, refilling, packing the gaps with CM 1:5, curing etc complete.	RMT	60.00		
	COMPOUND WALL				
14.06	Earthwork in excavation for Basement Floor, Foundation of Column footing, Wall footing, Stone Masonry, Pillars ,Retaining walls etc., in ordinary/hard soil (all Kinds of soils), boulders, old foundations etc all as given below including all lead and lift with necessary shoring & transporting surplus earth inside and outside the site as per local municipal byelaws, as directed after retaining the required earth for filling and levelling the site & stacking as directed inside the premises, etc. complete as per design drawing and direction of Architect/Client.For required depth as given below, necessary shoring/strutting for the excavated sides shall be done to avoid caving in of earth. Dewatering, Backfilling by available earth inside of foundation, site levelling, compaction etc. is also to be included in this item. Upto 1.5m depth	CUM	2.5		
14.07	Providing and laying in position plain cement concrete of mix 1:4:8 using 40mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation, floor bed , including cost of all materials, labor, HOM of machinery, curing complete as per specifications.	CUM	0.45		
14.07 (b)	Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.(including centering)	CUM	0.45		
	DPC				
14.08	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at two m.apart in each course including cost of materials, labor, curing complete as per specifications.	CUM	3		
14.09	Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 35 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	CUM	2.00		
14.10	Providing 18mm thick Sponge finished (Sand faced) plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required, providing and removing scaffolding, including cost of materials, labor, curing complete as per specifications, including parapet walls.(For External Walls)	SQM	12.00		
14.11	Providing and painting two coats of External Emulsion of ACE paint or approved equivalent make and quality and color and shade over one coat of primer including providing and removing necessary scaffolding and cleaning the paint stains wherever necessary etc., complete including the cost and conveyance of all materials, cost of labor for all items or works.	SQM	11.20		
	Sub total carried to summary				

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
SCHEDULE OF QUANTITIES - ELECTRIFICATION WORKS					
PROPOSED CONSTRUCTION OF TRAINING CENTRE FOR CANARA BANK RURAL SELF EMPLOYMENT TRAINING INSTITUTE-					
SI. No.	Description	Qty.	Unit	Rate	Amount
15.00	ELECTRICAL WORKS				
15.01	Supplying and fixing of 19 mm dia. PVC conduits, 2 mm thick in roof/walls, with bends, C.I. Junction boxes etc., and drawing 3 of 1.5 sq.mm. PVC insulated FRLS copper wires, M.S.switch boxes (16 g), 5A modular type switches bakelite angle holder/ceiling rose, C.G. holder with suitable moulded plastic plate etc., for lighting outlets complete as per specification.				
a	One light point controlled by one 5A switch	75	Each		
b	2 Gatelights controlled by 1 5A switch with complete accessories.	1	Set		
15.02	Supplying and fixing of 5A, 3 pin, universal socket, 5A Modular type switch M.S.box moulded plastic plate etc.,				
a	Independent lighting plug outlet.	15	Each		
b	Dependent lighting plug outlet.	16	Each		
c	Three no of 5Amps socket controlled by one number 16 Amps switch.	27	Each		
15.03	Supplying and fixing of 19 mm dia. PVC conduits, 2 mm thick in roof/walls, with bends, C.I. Junction boxes etc., and drawing 3 of 1.5 sq.mm. PVC insulated FRLS copper wires, M.S.switch boxes (16 g), 5A modular type switches bakelite angle holder/ceiling rose, C.G. holder with suitable moulded plastic plate etc., for lighting outlets complete as per specification.				
	Same as above , for Call Bell points with musical call bell/buzzer/bell indicator as required.	1	Each		
15.04	Supplying and fixing of 19 mm dia. PVC conduits, 2 mm thick in roof/walls, with bends, C.I. Junction boxes etc., and drawing 3 of 1.5 sq.mm. PVC insulated FRLS copper wires, M.S.switch boxes (16 g), 5A modular type switches bakelite angle holder/ceiling rose, C.G. holder with suitable moulded plastic plate etc., for lighting outlets complete as per specification.				
	Same as above , but along with Electronic Regulator suitable M.S. box, moulded plastic plate etc., and M.S. fabricated concealed fan hook box, etc., complete for ceiling fan outlets. (2 module Step type regulator)	16.00	Each		
15.05	Same as in item No. 1, for Exhaust fan outlets with suitable M.S. box, 5A, 3 pin universal socket moulded plastic plate etc., near Exhaust fan opening, as required.	3.00	Each		
15.06	Supplying and fixing 19 mm dia PVC conduit, 2 mm thick with all accessories and drawing 2 of 2.5 Sq mm PVC insulated copper wires and 1 of 1 Sq mm PVC insulated copper earth wire for lighting main/sub-circuits.	300.00	Rmt		
15.07	Supplying and fixing 25 mm dia PVC conduit, 2 mm thick with all accessories and drawing 2 of 4 Sq mm PVC insulated copper wires and 1 of 2.5 Sq mm PVC insulated copper earth wire for power circuits/heating circuits.	110.00	Rmt		
15.08	Same as above but with 4 of 6 Sq mm PVC insulated copper wires and 1 of 4 Sq mm PVC insulated copper earth wire in 32 mm dia PVC conduit for main/power circuits.	120.00	Rmt		
15.09	Supplying and fixing suitable M.S. box with 1 No. 20A DP modular switch with indicator, 1 No. 16A & 6A, 3 pin universal sockets, moulded plastic plate etc., for power outlets.	6.00	Each		
15.10	Supplying and fixing suitable M.S. box with 1 No. 20A DP modular switch with indicator, 1 No. 16A & 6A, 3 pin universal socket, moulded plastic plate etc., for Geyser / AC/fridge outlets. (Separate Socket to be fixed at user end)	2.00	Each		
a	Supplying and fixing suitable M.S. box with 1 No. 20A DP modular switch with indicator, for Motor/Solar outlet	8.00	Each		
b	Same as above but 15 amp sockets	2.00	Each		
c	Supplying and fixing suitable size M.S. box with telephone / TV / Speaker jacks with molded plastic plate etc.,	17.00	Each		
15.11	Supplying and drawing following PVC insulated wires/cables/computer circuits with suitable conduit.				
a	2 pair telephone cable with copper conductor shielded.	250	Rmt		
b	RJ 6 - TV Cable	50	Rmt		
15.12	Supplying, fixing and connecting G.I. pipe earth electrodes for grounding subdistribution boards, switch boards and other equipments using 40 mm dia, 2.5M long 'B' class G.I. pipe, funnel arrangement, C.I. chamber cover, including construction of chamber cover with brick masonry etc., The earthing shall be carried out as per drawing issued.(For Earthing)	4	Each		
a	Supplying and fixing in position 8 Swg G.I. wires including providing all fixing accessories and affecting proper connections	100	RMT		
b	Same as above but for 25 mm X 3 mm GI strip (For Earthing)	60.00	RMT		
15.13	Sheet steel fabricated, 4 way TP & N SDB, consisting of 12 Nos. 6/16A single pole MCB's and 1 No. 40/63A four pole residual current circuit breaker (ELCB) with necessary copper busbars, phase barriers, neutral link etc., as required (Havells/ Indo Asian or equivalent make) double door type.	2	SET		
15.14	Sheet steel fabricated, 8 way SPN SDB, consisting of 6 Nos. 6/16A single pole MCB's and 1 No. 32 A double pole residual current circuit breaker (ELCB) with necessary copper busbars, phase barriers, neutral link etc., as required (Havells/ Indo Asian or equivalent make) double door type.	1	Set		
15.15	Supplying and fixing pre-wired box type fluorescent tube light fitting suitable for 1 x 36W, 40" long., fluorescent tube with copper ballast, P.F. improvement capacitor, starter, holders etc., including 36W fluorescent tube complete. (Miroalta of Phillips make or equivalent)	75	Each		
15.16	Fixing ceiling fans of 1200 / 900mm (48 / 36 ") sweep.	16	Each		
15.17	Supplying & Fixing of Bulkhead fitting with 18 Watts CFL bulb.	6	Each		
15.18	Supplying & Fixing of Exhaust fan of 1500 RPM of suitable size with bracket blades complete for Heavy duty of approved make.	3	Each		
15.19	Supplying & Fixing of Exhaust fan of 1500 RPM of suitable size with bracket blades complete for Medium duty of approved make.	3	Each		
15.20	Supplying & Fixing of Gate Light fittings with gearbox, bulb etc complete. CAT - SPC 101/70 HPF	2	Each		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
15.21	Supplying & fixing of 20" X 20" water-proof 20mm ply-wood, for fixing fixing of exhaust fan with accessories.	3	Each		
15.22	Supplying & laying of PVC conduit of 2mm thk with necessary accessories.				
a	19mm	100	Rmt		
b	25mm	300	Rmt		
15.23	Supplying, erecting, testing and commissioning of sheet steel fabricated (16 gauge) Medium Voltage Panel/ Power Distribution Boards, Cubicle type with hinged front door with locking arrangements. The board shall be free standing type, dust and vermin proof, having provision for extension on both sides. The boards shall be supplied with the following equipments necessary bys bars, etc., including inter connections as required. the board shall be provided with detachable plate at top and bottom of cable alley, having adequate knockouts for facilitating conduit/ cable entries. The board shall be fixed firmly on a 150mm high concrete pedestal with bolt and nuts, finished neatly with plastering etc., complete. The board shall be applied with one coat of primer after cleaning and degreasing the metallic surfaces and finished neatly with two coats of approved colour enamel paint.				
a	Medium Voltage Main Control Panel Incoming Feeders 1 nos 100 AMPS 3Poles with fixed neutral MCCB 1 set of 100 AMPS aluminium bus bars (RYB & N) 1set of RYB phase indicator lamp set with switches and fuses. 1 no of 0-500 V volt meter with selected switch. 1 no of 0-250AMPS ammeter with selected switch. 1 no of earth leakage Relay with CBCT Outgoing Feeders 2no of 63A 3 POLE & fixed neutral ; 6no of 63A 3 POLE MCB	1.00	Set		
15.24	Supplying and laying following size L.T.Cable				
a	50 Sqmm 3.5 core armored cable with aluminum conductor cable	100.00	Rmt		
b	Same as above but with 35 sqmm 3.5 core	75.00	Rmt		
c	2.50 Sqmm 4 core armored copper cable	100.00	Set		
d	End termination of 50 Sqmm 3.5 core armored cable with aluminum conductor	4.00	Set		
e	End termination of 35 Sqmm 3.5 core armored cable with aluminum conductor	4.00	Set		
f	End termination of 2.5 Sqmm 4 core copper armored cable	4.00	Set		
15.25	Digging of trench of 0.6m X 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., in ordinary soil.	100.00	Rmt		
15.26	Digging of trench of 0.6m X 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., in Concrete/ Road	10.00	Rmt		
Sub total carried to summary					
All electrical works shall be carried out as per IE Rules & Electrical Inspectorate norms.					
PROPOSED CONSTRUCTION OF TRAINING CENTRE FOR CANARA BANK RURAL SELF EMPLOYMENT TRAINING INSTITUTE					
SI no	Particulars	Quantity	Unit	Rate	Amount
16.00	UNDER GROUND SUMP AND OVERHEAD TANK				
16.01	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width. In all kind of soils not exceeding 2m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications.	8.00	CUM		
16.02	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2	1.00	CUM		
16.03	Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	0.80	CUM		
16.04	Providing and laying in position machine batched , machine mixed and machine vibrated design mix Concrete conforming to IS :10262- 2009 of specified grade (unless otherwise specified), for reinforced concrete structural elements, as per relevant IS specifications, using 20mm and down size graded granite jelly for RCC works, including admixtures if any in recommended proportions to accelerate, retard setting of concrete, improve workability without impairing strength and durability, laid in layers and well compacted, machine batched, machine mixed, vibrated, curing, including necessary steel/ plywood/ plank centring, shuttering, form works and scaffolding with all lead, lift at level as specified etc. complete as per design, drawing and direction of Architect / Client [excluding the cost of steel reinforcement and fabrication charges] for the following works.				
	The Mix Design of various grades of concrete shall be got done by the contractor at his cost from reputed Institutions / Laboratories with approval of the Architect / Trust for further implementation in the site.				
	RCC M 20 grade to be used for all RCC works				
a	Slab	1.78	CUM		
16.05	Extra for use of water proofing compound in Cement concrete of mix 1:1, 5:3, at one kg of compound per bag of cement.	3.70	CUM		
16.06	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking , placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining membes wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	0.20	MT		
16.07	Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 35 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	3.50	CUM		
16.08	Providing and fixing SFRC cover from septic tank rectangular in shape of size 600mm X 600mm including the frame etc complete as per manufacturer's recommendation of reputed make such as southern concrete industries or equivalent	1.00	EACH		

SI no	Item of Work	Unit	Quantity	Rate (Rs)	Amount (Rs)
16.09	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadoing work with snd of approved quality, providing and removing scaffolding including cost of materials labour curing complete as per specifications.	39.30	SQM		
16.10	Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 15mm thick cost of materials complete as per specifications.	36.00	SQM		
16.11	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements making holes of suitable diameter for inlet, outlet and over flow pipes including cost of all materials, labour transport charges, HOM of equipments and testing complete as per specifications (For 1000 litre capacity)	2.00	NOS		
16.12	Supply,erection testing and commissioning of monobloc surface mounted. Electrical driven pump to lift domestic water with all necessary arrangements to operate on 1.5HP 50 HZ, 440V AC supply fitted on a common base frame accessories to lift the pump during maintenance pump foundation in CC1:2:4 with nominal reinforcement complete				
	Duty of the Pump				
	1.0 lps at 12 mtr head				
	Make : sharp/ suguna or appvd. Equivalent	1.00	SET		
Sub total carried to summary					