

ANNEXURE-III					
Name of work : Renovation work of BNPM Staff Canteen, BNPM premises, Mysuru					
PRICE SCHEDULE					
E-tender No. BNPM/NCB/CR/1010/2020-21 Dated 20.01.2021					
Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
CIVIL AND INTERIOR WORKS					
1	Dismantling burnt brick masonry in clay mortar/lime mortar/cement mortar and stacking the bricks within a radius of 50m and removing the debris to a distance up to 200m. including cost of materials, labour, HOM complete as per specifications.	cum	52.00		-
2	Dismantling the tile work in floor and roof laid in cement or surki mortar including stacking the materials with in 50 m lead of tiles thickness 10mm to 25mm. including cost of materials, labour, HOM complete as per specifications.	Sqm	572.00		-
3	Removing Removal of Existing Entrance Glazing / wall panelling / false ceiling / wooden partition / aluminium partition, stacking it with all cost and conveyance labour for all items of work, HOM of equipment etc., complete as per specification.	Sqm	43.00		-
4	KSRB 6-2.3 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (table moulded) with cement mortar 1:6 for basement and superstructure/re including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	cum	3.00		-
5	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1)2005 and constructed with CM 1 A, as per IS 25722005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 with solid concrete blocks of size 400x200x200mm	Sqm	20.00		-
6	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1)2005 and constructed with CM 1 A, as per IS 25722005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 with solid concrete blocks of size 400x150x200mm	Sqm	141.00		-
7	KSRB 5-15: Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1)2005 and constructed with CM 1.4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4	Sqm	49.00		-
8	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	951.00		-
9	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with super plastisiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, filets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Lintel)	cum	1.00		-
10	KSRB 4-6.8 : Providing and removing cantering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beams haunchings, cantilever, girders, bressumers and lintels exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Lintel)	Sqm	15.00		-
11	KSRB 4.9.2 : 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 members 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. Specification No. KBS 4.6.3 - TMT bars Fe 500 (For Lintel)	Tonne	0.01		-
12	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all materials, mortar, labour, etc., Complete as per specification.	Sqm	517.00		-
13	Providing and fixing 20mm thick gang saw water cut LAKARED granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification . (Tan Brown Granite)	Sqm	59.00		-
14	KSRB 14-17.2 : Providing skirting, with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement 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, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 15x15 cms 6mm thick	Sqm	4.00		-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
15	KSRB 14-17.2 : Providing dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement 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, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 15x15 cms 6mm thick	Sqm	536.00		-
16	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS	Sqm	139.00		-
17	Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing.	Sqm	15.00		-
18	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, 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 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections 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 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 with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chiselling and making good with cement mortar to match the surface; all the frames thoroughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.	Sqm	16.00		-
19	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, 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 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections 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 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 with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chiselling and making good with cement mortar to match the surface; all the frames thoroughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality. (Glass Door with Aluminium Frame)	Sqm	8.00		-
20	Providing and fixing flush door shutter made out of solid core black board type, well seasoned chemically treated hard wood battens and internal frame with minimum 45 mm wide wooden frame all-round door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door using liquid phenol formaldehyde resin as per IS specification 2202 (Part-I) 1991. From manufacturer (Factory) complete as per specification. - 30mm thick both side commercial	Sqm	16.00		-
21	KSRB 9.4-5 : Providing RED Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33	cum	4.00		-

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22	Door Frame - Entrance : Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre-punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 1000 x 2130 mm	RMt	15.65		-
23	Door Shutters Entrance : Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre-painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer skins of steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided for fixing all hardware fixtures. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size	Sqm	14.00		-
24	KSRB 7.10 : Providing and fixing in position 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 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 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 for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenoned and riveted 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 screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pre-treated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns.	Sqm	2.00		-
25	Providing and fixing mosquito mesh to mesh to windows with 7.5 mm to 1.25 mm thick Honne wood petties including labour charges etc., complete.	Sqm	2.00		-
26	Providing, fabricating and fixing of stick type structural glazing using Aluminium Extrusions of 63.5 mm x 58.00 mm x 2.25 mm of 1.73 kgs/ mtr for vertical and Horizontal members and 63.5 mm x 38.1 x 1.33 mm of 0.759 kg/Mtr, as outer frame with Electro Anodized Paint coated block finishing, using 6mm thick imported glass reflective hard coated ocean blue raw glass with all necessary accessories like ultra glass Silicon sealant of Space tape, Masking tape, Galvanized Anchor bolt, machine screws, 6mm thick M.S. angle 50mm x 150mm x 6mm M.S. Galvanized L Brackets, structural sealant setting clocks, fasteners, wall connection etc., complete.	Sqm	43.00		-
27	Providing & Fixing of Mineral Fibre Acoustical Suspended Ceiling System in module size of 600 x 600 x 16mm with Exposed Grid. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.5, Light Reflectance <087%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0 I Class 1 (BS 476 pt- 6 & 7)and suitable for Green Building application with Recycled content of 30%. The tile shall be laid on 24 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 38mm and a load carrying capacity of 15Kgs/sqm&pull out strength of minimum 100 Kgs. The T Sections should have a Galvanizing of 90 grams per Sqm and need to be installed with Suspension system of approved make.	Sqm	37.00		-
28	KSRB 8.7-1 :Providing and fixing in position 10mm thick plaster of paris (Gypsum anhydrous) for ceiling flat surface up to a height of 5 m above floor level over aluminium 25mm / 6mm with 10mm gap in between and reinforced with rabbit wire mesh fixed to metal frames including cost of materials, labour, curing complete as per specifications.	Sqm	122.00		-
29	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer	Sqm	585.00		-
30	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.	Sqm	379.00		-
31	Providing and fixing hydraulic door closures-with mounting heavy duty. including cost of materials, labour, HOM complete as per specifications.	No	12.00		-
32	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (Painting for MS Pergolas)	Sqm	30.00		-

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33	Metal grid ceiling : Providing & fixing Lay-in-tile metal Perforated with 15 mm Grid (Hot Dipped Galvanized Steel) modular false ceiling of size 600mm x 600mm. General requisites Tile specification :Lay-in-tile type: 0.5mm thk of Armstrong make or approved equivalent Tile size: 600mm x 600mm. Edge detail: Square Light reflectance: 77%Perforations:- 2.5mm dia. Perforations Colour: Warm White NRC: In the range of 0.1 Finish: Polyester painted Ceiling Suspension System Proprietary supplied ceiling suspension system to consist of 2mm or 3mm GI suspension rod/wire with adjustable butterfly clip or adjustable threaded "J" bolt of 3mm dia securely affixed to structural ceiling using soffit angle fixing bracket and 10mm dia hook type anchor fastener. Ceiling suspension system to be fixed at interval (grid) of 1200mm in both directions. Proprietary supplied Grid System to consist of main carrier bar at every 600mm interval suspended from a "C" channel at every 1000mm interval using a hanger clip system and fixing a 19mm x 19mm wall angle around the wall and suspending the "C" Channel, 600mm. Additional main carrier bar are to be placed where appropriate for light fixtures, AC diffusers. The grid system used shall be hot dipped galvanized steel sections, with exposed surfaces chemically cleaned and capped prefinished in high-gloss polyester enamel. Grid member sizes False ceiling will be measured on horizontal plane only. Horizontal plane measurements are to be inclusive of all vertical drops, edge mouldings, fascia's, etc., All extra tiles occupied by lights and diffusers to be returned to owner. Rate quoted to include all cut-outs required for light fixtures, smoke detectors and other services cut-outs complete as directed by Architect.	Sqm	144.00		-
34	Axioms Providing & installing Axiom Trim of 100mm height as per manufacturer's standards, specification & installation guidelines. Axiom trim consists of Classic Axiom 50mm trim channel, Axiom T Bar connection clip, Axiom hanging clip, Axiom splice plate, etc., as per the instruction of the Architect.	Sqm	144.00		-
35	Providing and fixing Laminate extra for Item 9.106.3 on both sides	Sqm	31.00		-
36	Providing and fixing Aluminium framed Fixed Glass above the Glazed partition.	Sqm	23.00		-
37	Providing and fixing approved pattern Vinyl Snickering fixed on the specified areas.	Sqm	14.00		-
38	Providing and placing 25-40mm thick Cuddapa Stone above the gas bank walls including edge polishing.	Sqm	9.00		-
39	Providing and fixing Bar stool Counter (SS LEG & table top with approved top Granite finish including round nosing.) In Coding DWG MS Frame, Counter top Finish is Laminate.	Sqm	8.00		-
40	Providing and placing in position Round Table 9mm dia (SS LEG & table top with approved top Granite finish including round nosing.)	Sqm	2.00		-
41	Providing and fixing Handwash counter with below Storages as per the drawing. The cabinet shall be made with BWP Grade 19mm Ply , shutter shall be made with BWP Grade 19mm Ply and finished with approved glossy laminate & approved hardware s. The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	3.00		-
42	Providing and fixing Waste Dump counter with below Storage as per the drawing. The cabinet shall be made with BWP Grade 19mm Ply , shutter shall be made with BWP Grade 19mm Ply and finished with approved glossy laminate & approved hardware s. The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	3.00		-
43	Providing and fixing Lockable Cupboard as per the drawing. The cabinet shall be made with BWP Grade 19mm Ply , shutter shall be made with BWP Grade 19mm Ply and finished with approved glossy laminate & approved hardware s. The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	2.00		-
44	Providing and fixing Counter with below Storages as per the drawing. The cabinet shall be made with BWP Grade 19mm Ply , shutter shall be made with BWP Grade 19mm Ply and finished with approved glossy laminate & approved hardware s. The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	3.00		-
45	Providing and fixing Plate Dump with Lockable Shutter as per the drawing. Supported around with MS Box section 25mm x 25mm, Shutter to be made with Perforated sheet fixed to 25mm wide angle .The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	3.00		-
46	Providing and fixing Coupon counter (Ledge with Brackets) as per the drawing. The Counter shall be made with BWP Grade 19mm Ply, Supported On Brackets and finished with approved laminate .The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	1.00		-
47	Providing and fixing Handwash Mirror Fixed on 19mm thk Ply as per the drawing. The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	3.00		-
48	Providing and fixing Gents Toilet Handwash Mirror Fixed on 19mm thk Ply as per the drawing. The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	1.00		-
49	Providing and fixing Ladies Toilet Handwash Mirror Fixed on 19mm thk Ply as per the drawing. The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	1.00		-

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50	Providing and fixing Gents Toilet Handwash Counter as per the drawing. The Counter shall be made with BWP Grade 19mm Ply .The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	1.00		-
51	Providing and fixing Ladies Toilet Handwash Counter as per the drawing. The Counter shall be made with BWP Grade 19mm Ply .The work to be executed in strict conformity to the detailed drawings and as directed by the Architect / Engineer in charge. The rate to include providing and fixing etc., complete. The rate to exclude all taxes as applicable.	Sqm	1.00		-
52	Gypsum Board Boxing to Column (single side) : Providing & fixing 12.5mm Gyp Board One Side for columns on the GI frame work with 12.5mm thick gypsum onto columns finished with approved paint and colour. Column to have 10mm groove on top of skirting. All as detailed in drawing and as directed by the Architect / Engineer in charge.	Sqm	9.00		-
53	Awning (Manual retractable - Fabric clad - Al. framed) Providing and fixing retractible Awnings with complete frame work and fitting as per approval of Engineer-in Charge	Sqm	55.50		-
54	Providing Bench Seating (bought out as per approved sample)	Rmt	4.00		-
55	Bar Stool Indoor (bought out as per approved sample)	Nos	20.00		-
56	4 seater outdoor tables (bought out as per approved sample)	Nos	20.00		-
57	Providing and fixing Ball Bearing Hinges for the Ply / block board door shutters. (Make : Geze)	Nos	42.00		-
58	Providing and fixing Handle with lock for the Aluminium / Ply / block board door shutters. (Make : Geze)	Nos	12.00		-
59	Providing and fixing Handle with Lock (Doorset) for the Ply / block board door shutters.	Nos	2.00		-
60	Providing and fixing Handle without Lock (Doorset) for the Ply / block board door shutters.	Nos	2.00		-
61	Providing and fixing Tower Bolt for the Ply / block board door shutters.	Nos	4.00		-
62	Providing and fixing Door Stopper for the Aluminium / Ply / block board door shutters. (Make : Geze)	Nos	10.00		-
63	Providing and fixing Wallpaper as per approved sample	Sqm	28.00		-
64	MS Works - Pergolas (50mm x 75mm x 3mm thk Vertical Member, 25mm x 50mm x 2mm thk Horizontal Member MS Box section)	KG	641.00		-
65	Providing and fixing CGP063 - Aluminium Corner Guard 25mm	Rmt	154.00		-
66	Providing and fixing Wall Guard 50mm dia SS Guard rail on wall.	Rmt	22.84		-
67	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre 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, labour complete as per specifications. Specification No. KBS 11	Nos	2.00		-
68	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. 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. Specification No. KBS 11	Nos	3.00		-
69	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11	Nos	5.00		-
70	KSRB 11-12.1 : Providing and fixing kitchen sink of white glazed fire clay of size 600x450x250mm with M.S / C.I brackets, C.P brass chain with rubber plug, 32 mm C.P. brass waste, tap with union, brass stop cock 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. KBS 11	Nos	6.00		-
71	KSRB 11-14.3 : Providing and fixing Stainless Steel kitchen sink of size 400 x 915 mm bowl depth 160mm, with drain board , M.S/C.I brackets , stainless steel plug 40 mm,including painting of fittings and brackets, cutting and making good the walls wherever required , including cost of materials, labour complete as per specifications.	Nos	2.00		-
72	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3	Nos	4.00		-
73	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and color. Weighing not less than 105 gms. (near sink)	Nos	6.00		-
74	Supplying, Installing Blue Star Hot & cold water cooler with all accessories.	Unit	1.00		-
75	Supplying, laying, jointing, testing and commissioning approved make UPVC pipes class III 6 Kg/cm2 with solvent cement joints conforming to IS 4985 for kitchen sink & wash basin outlets. The quoted rate shall include necessary chasing in walls making good the same in C.M. 1:4, necessary fittings viz., elbows, tees etc., with G.I clamps. Ancho fasteners, Grip bolts, nuts and bolts, etc.complete.				
	a) 40 mm dia	Rmt	50.00		-
	b) 50 mm dia	Rmt	50.00		-
76	KSRB 11-18-1.2 : Providing and fixing sand cast iron soil waste and vent pipes 75mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications.KBS 11-1.10	Rmt	50.00		-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
77	KSRB 11-18-1.1 : Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications. KBS 11-1.10	Rmt	30.00		-
78	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer dia	Rmt	50.00		-
79	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials with 160mm outer dia	Rmt	100.00		-
80	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms	Each	16.00		-
81	Providing stoneware gully trap of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all materials, fixtures and lead). - 15cms x 10cms	Each	5.00		-
82	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm , and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (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 M 15 with 20mm and downsize granite metal, foundation concrete M 5 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, labour charges, curing complete as per specifications. Specification No. KBS	Nos	6.00		-
83	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	cum	60.00		-
84	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) 20mm nominal OD pipes	Rmt	50.00		-
85	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) 25mm nominal OD pipes	Rmt	150.00		-
86	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) 32mm nominal OD pipes	Rmt	30.00		-
87	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 40mm nominal OD pipes	Rmt	130.00		-
88	KSRB13-6.4-2 : Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS	Each	5.00		-
89	KSRB13-6.3-4 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3	Each	5.00		-
90	KSRB13-6.3-5 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 40mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3	Each	5.00		-
91	Supplying, installation, testing and commissioning of solar hot water heater comprising of high quality Evacuated Glass Tube (EGT) with absorber coating collector of size 58 x 1800 mm. Inner tank Material-Stainless steel 304-L Grade with Aluminium Stucco cladding made of High quality PUF insulation to minimizes heat loss and hold water Temperature upto 72 Hrs...with appropriate capacity electrical back up arrangement excluding inlet and out let pipes. Fitted with Sacrificial Anode1000Lts	Each	1.00		-
92	Supplying and providing approved make elastomeric thermal insulation 6mm thick for hot water supply pipelines inside the duct & terrace lvl. with 4kg PVC Pipe encasing. 25mm dia	RMT	60.00		-
93	Providing 300 mm wide trench drain with SS perforated cover plate including excavation, PCC, Brick masonry, plaster and tiling works.	Rmt	50.00		-
94	RO system Indion Chemical Dosing systems are designed to economically meet the need for accurate and precise chemical dosages for water, waste water treatment and reverse osmosis systems. Indion Chemical dosing systems is a state of the art electronic metering pump, which are mounted on a plastic chemical solution tank. The electronic metering pumps are solenoid driven diaphragm type. The diaphragm is made of high quality fabric reinforced EPDM.The liquid side is coated with Teflon. The body is made up of PVC or polypropylene, suitable for most applications in water and wastewater treatment. Cap:- 200lts/hr.	Nos	1.00		-
95	Supplying, Installing, testing and commissioning of approved make SS-304 RO Tank. Capacity: 500 Lts	Nos	1.00		-
FIRE EXTINGUISHER WORKS					-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
96	Providing ABC Powder based MAP 50, 6Kg Providing 6kg Fire Extinguisher Mono Ammonium Phosphate Powder 50, Stored Pressure Type, Pressure Gauge, Gross Weight 9.5 Kg, empty weight 3.5 Kg, Can Height 435MM, Diameter 160MM, Discharge Time less than 9 Secs, Controllable discharge mechanism (Squeeze grip with easy snap safety seal), Range minimum 4 meters, applicable on Class A,B,C and electrically started Fire, A Rating 3A, B Rating 21B, Can construction : Deep drawn & Co., Mig welded, valve Construction : Forging and Machining, Internal Coating of Can: Epoxy powder coating, External Coating of Can: Epoxy Polyester power coating, Sheet metal thickness: 1.60MM, Helium Leak Detection Tested, ISI and EN Approved, 5 years Warranty with instalert system with Superior quality EPDM Rubber Hosepipe etc., complete	Each	4.00		-
96 (B)	Supplying, installing and commissioning first aid fire fighting appliances.	Each	6.00		-
	a) ABC 'Capacity : 6Kg.				-
ELECTRICAL WORKS					
Open Conduit System					
97	Supplying heavy gauge PVC conduit pipe dia mm thick conforming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc. and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700 mm using NF screws.				-
a	25mm dia 2mm thick	Mtr	350.00		-
b	32mm dia 2.5mm thick	Mtr	100.00		-
c	40mm dia 2.5mm thick	Mtr	10.00		-
Concealed Conduit System					
98	Supplying heavy gauge PVC conduit pipe mm dia mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc. and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary.				-
a	25mm dia 2mm thick	Mtr	20.00		-
99	Supplying heavy gauge PVC conduit pipe dia mm thick with suitable size bends, metal junction boxes, adhesive paste etc. by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire run throughout the conduit wherever necessary.				-
a	25mm dia 2mm thick	Mtr	750.00		-
b	32mm dia 2.5mm thick	Mtr	150.00		-
100	Extra for groove cutting in brick wall/CC floor to the suitable depth for concealing of conduit/GI pipe and plastering, finishing upto wall surface complete.				-
a	upto 50mm conduit in brick wall	Mtr	100.00		-
b	upto 50mm conduit CC floor	Mtr	50.00		-
101	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.				-
a	Short point upto 3Mtr from tapping point to out let via switch	Point	57.00		-
b	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches.	Point	24.00		-
c	Three outlet in a row, above 6Mtr upto 10Mtr from tapping point to out let via switches.	Point	1.00		-
102	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP-A.				-
a	1.5 sqmm	Mtr	550.00		-
b	2.5 sqmm	Mtr	1,500.00		-
c	4 sqmm	Mtr	1,300.00		-
d	6 sqmm	Mtr	200.00		-
103	Supplying and fixing surface/flush mounting powder coated / galvanised metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in brick/CC wall.				-
a	1-3 way	Each	119.00		-
b	4-5 way	Each	4.00		-
c	6 way	Each	1.00		-
d	8 way	Each	5.00		-
e	10-12 way	Each	2.00		-
104	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts, nuts etc. complete on the existing metal / PVC box.				-
a	1 to 3 module	Each	119.00		-
b	4 module	Each	4.00		-
c	6 module	Each	1.00		-
d	8 module	Each	5.00		-
e	10 module	Each	2.00		-
105	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/ telephone socket etc. on existing modular switch plate as per IS 3854 and IS 1293.				-
a	16 Amps one way switch	Each	52.00		-
b	6/16 Amps universal socket	Each	52.00		-
c	TV/Telephone socket	Each	8.00		-
d	RJ45/I.O outlet	Each	12.00		-
e	3 X 6 Amps socket with 16 A single switch (for UPS)	Each	5.00		-
106	Supplying and fixing of metal clad industrial plugs and sockets.				-
	PLUG				-
	2 pole + earth 250V				-
	20 Amps	Each	6.00		-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
	3 pole + earth 440V				-
	30 Amps	Each	15.00		-
107	Supplying push button operated direct online starter with an antiweld silver cadmium oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 230/440 volts 1/3 phase motor upto 5 HP.	Each	5.00		-
108	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.				-
a	Upto 12.5 HP	Each	2.00		-
b	Above 12.5 HP upto 25 HP	Each	2.00		-
c	Above 25 HP upto 35 HP	Each	4.00		-
109	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required conforming to IEC-60898.				-
a	5-32 Amps SP	Each	58.00		-
b	5-32 Amps TPN	Each	20.00		-
c	40-63 Amps TPN	Each	1.00		-
d	100 Amps TPN	Each	1.00		-
110	Supplying and fixing of regular MCB distribution boards on wall/wood board/flush mounting using required clamps, bolts, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3phase/ single door with powder coated painting. Made out of 14 SWG MS enclosure.				-
	II-Double Door				-
a	6 way SP & N	Each	1.00		-
b	8 Way SP & N	Each	1.00		-
	III-Double Door				-
c	8Way TP & N	Each	3.00		-
d	4 W 7 segment DB (according to the drawing)	Each	1.00		-
e	8 W 7 segment DB (according to the drawing)	Each	1.00		-
111	Supplying, fixing and wiring Residual Current Circuit Breaker (RCCB) 240/450V upto 300mA sensitivity on existing wood/panel board.				-
a	32 Amps 2 pole	Each	2.00		-
b	40 Amps 2 pole	Each	6.00		-
c	40 Amps 4 pole	Each	15.00		-
d	63 Amps 4 pole	Each	1.00		-
e	125 Amps 4 pole	Each	2.00		-
112	Supplying and running of GI / Copper strips for grounding connections, using necessary fixing materials as required.				-
	GI strip				-
a	25x3mm	Mtr	25.00		-
b	50x6mm	Mtr	100.00		-
c	600x600x3mm GI plate	Each	2.00		-
113	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975				-
a	3 core 4 sq.mm copper armoured cable	Mtr	600.00		-
b	4 core 10 sq.mm copper armoured cable	Mtr	30.00		-
c	4 core 25 sq.mm copper armoured cable	Mtr	30.00		-
114	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.				-
	On wall / structure				-
a	6 sqmm to 16 sqmm	Mtr	630.00		-
b	25 sqmm to 75 sqmm	Mtr	30.00		-
115	Supplying and fixing of heavy duty cable glands suitable for UG class of 1.1 kV class (metal only).				-
	25mm dia	Each	14.00		-
116	Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts / nuts and washer or welding as required.				-
a	150 x 50mm	Mtr	30.00		-
b	300 x 50mm	Mtr	10.00		-
117	Supplying and running GI / copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas / spacers etc.				-
	GI wire				-
a	10 SWG	Mtr	125.00		-
b	8 SWG	Mtr	20.00		-
	Copper wire				-
c	10 SWG	Mtr	25.00		-
d	8 SWG	Mtr	25.00		-
118	Supplying exhaust fan of 1440 rpm of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC supply.	Each	2.00		-
119	Supplying offeet - PVC Batten with integrated LED tubeW with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.				-
	LED light fighting 1 x4'- 20/22 w	Each	17.00		-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.	
120	Supplying of recess mounting non integrated type LED down light W luminaire comprising of pressure decastr/ extruded aluminium housing, with spring loaded false ceiling clamps, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%. Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.				-	
a	2) 10-12W	Each	25.00		-	
b	3) 15-18W	Each	34.00		-	
121	Supply of round/square recess/surface mounted rolling type LED Down light withW GU 10 LED Lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector & has swiveling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.				-	
a	LED square or round down light 5-6W	Each	5.00		-	
b	LED square or round down light 10-12W	Each	18.00		-	
122	Supplying and fixing of slim patty fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Fluorescent Tube.				-	
a	1 x 2' Tube light fitting.	Each	2.00		-	
b	20 W dust proof LED lights	Each	7.00		-	
123	Fixing all types and all capacities of fluorescent / false ceiling/ spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076 twin twisted PVC insulated wires, required nos. of round blocks and clamps.				-	
	On wall / ceiling / rafter / girders	Each	108.00		-	
124	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts 5 Amps Ceiling rose with sufficient length of 23/0.0076 inch PVC insulated twin core wire.	Each	2.00		-	
125	Supplying and drawing UTP-CAT 6E LAN cable.	Mtr	280.00		-	
126	Supplying and drawing PVC insulated gas injected physical foam jelly flooded co-axial TV cable. RG-6.	Rmt	100.00		-	
HVAC WORKS						
127	Supply, Installation, testing and commissioning of the following items including loading and unloading, shifting to location, and final testing after commissioning including water & air balancing to demonstrate satisfactory performance. Supply, installation, testing and commissioning of Ceiling Suspended 4 Way Chilled Water Cassette Unit , decorative modern round flow design, complete with minimum 2 row Cooling coil, high energy saving 3 speed AC fan motor, synthetic washable filter 90% down to 20 micron, extended aux drain tray, built-in drain pump with minimum 500mm lift, cordless remote controller, hanging accessories and rods, adjustable louvers for air movement, units to be communicable over MODBUS for remote operation & monitoring, with required additional items, power / control cables if any. The noise level should not exceed 40 dBA @ 1m. The rate quoted shall also include the cost of cabling around 5 M from the nearest socket. User friendly Remote Controller shall be cordless, with digital display and capable of controlling the fan speed & temperature as per the user requirement. The unit shall communicable to BMS through Modbus protocol, necessary master-slave cabling, gateways and converters, if any shall be included in Contractor's scope (3 core 1.5 sq.mm shielded communication / looping cable with saddles/supports & PVC conduits to connect all indoor units). Units shall be self-diagnostic type with defined error codes and safety inter-locks. Factory assembled Valve station including Insulated Valve Circuit / package consisting of Ball Valve, Ball Valve with strainer, provision to mount temperature & pressure sensors, Test points / pressure independent balancing control valve (PIBCV) purge valve with aux drain tray to be provided. Make: Midea / Bhutoria / Trane 3 TR / 1200 CFM - Canteen					-
a	Supply	Numbers	6.00		-	
b	Installation	Numbers	6.00		-	
128	Chilled water piping with MS class C pipes with all fittings, supports etc. chilled water pipes cut to required lengths and installed with all welded joints, providing and fixing in position with the necessary fittings like elbows, tees and reducers, sockets for probe meter: Supports (PCC / RCC Masonary block support/Hitech support) Support hangers with vibration isolation and PUF saddles arrangement as per specification, drawings / details. Make: TATA / Jindal / SAIL				-	
a	50 mm dia - 4.5mm wall thickness				-	
i	Supply	Rmt	100.00		-	
ii	Installation	Rmt	100.00		-	
b	32 mm dia - 4mm wall thickness				-	
i	Supply	Rmt	85.00		-	
ii	Installation	Rmt	85.00		-	
c	25 mm dia - 4mm wall thickness				-	
i	Supply	Rmt	24.00		-	

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
ii	Installation	Rmt	24.00		-
129	The Butterfly valve shall be of Slim seal wafer type and PN 16 rating. 50 mm dia				-
	Make: Audco / Advance / Belimo / Econosto / Intervolve / Saunders / Syncro / TFL / Valtree				-
i	Supply	Numbers	2.00		-
ii	Installation	Numbers	2.00		-
130	The Ball valves as per technical specification PN 10 rating. 32 mm dia				-
	Make: ITAP / TFL / RB				-
i	Supply	Numbers	6.00		-
ii	Installation	Numbers	6.00		-
131	Balancing Valve shall be of PN 16 rating. The valve should be with factory calibrated with +/- 5% flow accuracy. Provided with necessary measuring port, drain port, flanges etc., The balancing to be done by computer and same result should be furnished in the handing over manual. 32 mm dia				-
	Make: Advance / Econosto / TA Hydronics				-
i	Supply	Numbers	3.00		-
i	Installation	Numbers	3.00		-
132	Auto air vent as per the technical specification of 20 mm dia. The air vent to be provided with necessary ball valve.				-
	Make: Anergy / Emerald				-
i	Supply	Numbers	4.00		-
ii	Installation	Numbers	4.00		-
133	The Thermometer shall be of Bourdon tube Dial type Range 0 ^o to 50 ^o C, with stainless steel body - IP 55 protection, with necessary thermowells. It should be filled in mercury. The thermometer shall be having 4" dial.				-
	Make: Hguru / Waree				-
i	Supply	Numbers	2.00		-
ii	Installation	Numbers	2.00		-
134	The Pressure Gauge shall be of Bourdon tube Dial type Range 0 to 10kg/cm ² , with stainless steel body - IP55 protection with necessary siphon & cock, needle valve etc., The pressure gauges shall be having 4" dial.				-
	Make: Hguru / Waree				-
i	Supply	Numbers	2.00		-
ii	Installation	Numbers	2.00		-
	Insulation of piping and valves				-
135	Insulation of chilled water piping with appropriate thickness and 60 kg/m ³ density nitrile rubber with adhesive. Covered with 500 GSM plastic sheet and covered with 24G .AL Cladding				-
	Make: Armaflex / Aeroflex / K Flex / Superlon				-
a	50 mm dia - 25 mm insulation				-
i	Supply	Rmt	100.00		-
ii	Installation	Rmt	100.00		-
b	32 mm dia - 25 mm insulation				-
i	Supply	Rmt	85.00		-
ii	Installation	Rmt	85.00		-
c	25 mm dia - 25 mm insulation				-
i	Supply	Rmt	24.00		-
ii	Installation	Rmt	24.00		-
136	Insulation of Butterfly valves as under (with Nitrile rubber as in 135 above)				-
a	50 mm dia				-
i	Supply	Numbers	2.00		-
ii	Installation	Numbers	2.00		-
137	Insulation of Ball valves (with Nitrile rubber as in 135 above)				-
a	32 mm dia				-
i	Supply	Numbers	6.00		-
ii	Installation	Numbers	6.00		-
138	Insulation of Balancing valves for chilled water circuit (with Nitrile rubber as in 135 above)				-
i	Supply	Numbers	3.00		-
ii	Installation	Numbers	3.00		-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
139	Supply , Installation , testing and commissioning of Cabinet type , limit load type,centrifugal fan suitable for Exhaust complete with 25 mm double skin casing, shaft, impeller with backward curved self-cleaning blades,TEFC squirrel cage induction motor conforming to IP 55 grade of protection, belt / direct drive, belt guard, Dunlop cushy foot or eqvt. The fan motor and the exhaust air path has to be segregated in to two different chambers so that the exhaust air does not come in contact with the fan motor. Necessary cabling, end terminations & earthing from the starter panel to the fan motor also to be included.(The motors should be iE3 motors) 12000 CFM TSP - 60mm - For kitchen exhaust with carbon filters				-
	Make : Edgetech / Caryaire / Systemair				-
i	Supply	Numbers	1.00		-
ii	Installation	Numbers	1.00		-
140	Electrostatic air cleaner without blower for kitchen exhaust consisting of powder coated electro galvanized steel casing, washable pre filter & electrically powered washable electrostatic filter. With MS stand for supporting. 3000 cfm				-
i	Supply	Numbers	4.00		-
ii	Installation	Numbers	4.00		-
141	Supply , Installation , testing and commissioning of Cabinet type , limit load type,centrifugal fan suitable for Exhaust complete with 25 mm double skin casing, shaft, impeller with forward curved blades, TEFC squirrel cage induction motor conforming to IP 55 grade of protection, belt / direct drive, belt guard, Dunlop cushy foot or eqvt. Necessary cabling, end terminations & earthing from the starter panel to the fan motor also to be included.(The motors should be iE3 motors) 12000 CFM TSP - 30mm - For kitchen ventilation				-
	Make : Edgetech / Caryaire / Systemair				-
i	Supply	Numbers	1.00		-
ii	Installation	Numbers	1.00		-
142	Air curtain following wide suitable for door height of 2400 mm, made from Cold rolled mild steel sheets duly powder coated Or Steel, blowers made of Hi Quality Aluminum / Plastic electronically balanced on computer programming and should have low noise & vibration. Make : Euronics / Mitzvah				-
a	1500 mm				-
i	Supply	Numbers	2.00		-
ii	Installation	Numbers	2.00		-
143	Wall mounted type propeller fan of single phase for garbage room fresh air / exhaust should be complete with mounting plate, shaft, fan blades, motor, drive package & nessessary supports. Supply, installation, testing and commissioning of 300 cfm, TSP - 10 mm. Make : Kruger / Usha				-
i	Supply	Numbers	2.00		-
ii	Installation	Numbers	2.00		-
144	400 CFM, 100 pascals total static pressure circular type inline fan consisting of back ward curved impeller which is factory matched to the corresponding external motor and dynamically balanced for vibration free operation for battery room with necessary fixing arrangements. Make : Ostberg / Caryaire				-
i	Supply	Numbers	1.00		-
ii	Installation	Numbers	1.00		-
	Make: Rolastar / Vedha / Zeco				-
145	CNC machine fabricated sheet metal ducting as per IS standards & completely assembled in to box shape from factory complete with TDF / TDC flanges, duct damper, vanes, splitters, neoprene or equivalent approved gasket. suspension arrangement using threaded rods, slotted angle supports, anchor fastners etc. Connection to fans shall be provided with Canvas connections. Price should also include duct pressure test which has to be carried out for 20 % of total duct qty. All ducts inlet and outlet to be cleanly covered with polythene sheet in order to prevent dust entry to inside surface of ducts. Make: Rolastar / Vedha / Zeco				-
a	24G , Duct Width 0 - 750 mm				-
i	Supply	Sqm	50.00		-
ii	Installation	Sqm	50.00		-
b	22G , Duct Width 751 - 1500 mm				-
i	Supply	Sqm	168.00		-
ii	Installation	Sqm	168.00		-
c	20G , Duct Width 1501 - 2250 mm				-
i	Supply	Sqm	25.00		-
ii	Installation	Sqm	25.00		-
	Kitchen Exhaust Duct				-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
146	CNC machine fabricated sheet metal ducting as per IS standards & completely assembled in to box shape from factory complete with MS flanges , duct damper, vanes, splitters, neoprone or equivalent approved gasket. suspension arrangement using threaded rods, slotted angle supports, anchor fasteners etc. Connection to fans shall be provided with Canvas connections. All ducts inlet and outlet to be cleanly covered with polythene sheet in order to prevent dust entry to inside surface of ducts. 22G . Duct Width 751 - 1500 mm Make: Rolastar / Vedha / Zeco				-
i	Supply	Sqm	98.00		-
ii	Installation	Sqm	98.00		-
147	Preinsulated flexible ducts for connecting branch ducts with the diffuser boxes complete with brass circular clips at both ends etc. The insulation used shall be fibre glass type of denisty 16 Kg / M3. dia 150 Make: ATCO / Seven star / Supaflex / UP Twiga				-
i	Supply	Rmt	5.00		-
ii	Installation	Rmt	5.00		-
148	Rigid round ducts fabricated out of 24G sheets to be used as extension pieces at the diffuser boxes. dia 150 Make: Rolastar / Vedha / Zeco / Alpha Duct / Radiant / Western air ducts				-
i	Supply	Rmt	5.00		-
ii	Installation	Rmt	5.00		-
149	Extruded Aluminum powder coated continuous grill with end flanges. 100 mm Make: Airmaster / Systemair				-
i	Supply	Rmt	5.00		-
ii	Installation	Rmt	5.00		-
150	Al.powder coated Patch Grill with end flanges necessary fixing arrangements Make: Airmaster / Systemair				-
a	600 x 600 mm				-
i	Supply	Numbers	8.00		-
ii	Installation	Numbers	8.00		-
b	450 x 450 mm				-
i	Supply	Numbers	5.00		-
ii	Installation	Numbers	5.00		-
c	600 x 100 mm				-
i	Supply	Numbers	8.00		-
ii	Installation	Numbers	8.00		-
151	Opposed blade collar dampers of powder coated Aluminium. Make: Airmaster / Systemair				-
i	Supply	Sqm	5.00		-
ii	Installation	Sqm	5.00		-
152	Butter fly dampers of GI construction made out of 22G sheet with lever, brass bush with spindle and locking arrangement at the take off for the supply air diffusers. 150 mm dia Make: Airmaster / Systemair				-
i	Supply	Numbers	5.00		-
ii	Installation	Numbers	5.00		-
153	Prefabricated diffuser boxes made out of 24G sheet suitable for diffusers of the following neck size with circular collar for connecting flexible duct, suspension arrangement using anchor fasteners, threaded rods etc. 600 x 600 mm Make: Airmaster / Systemair				-
i	Supply	Numbers	20.00		-
ii	Installation	Numbers	20.00		-
154	GI Volume control dampers fabricated out of 18G complete with linkage gears of hardened plastic with flanges for mounting on rectangular or elliptical branch ducts. Make: Airmaster / Systemair				-
i	Supply	Sqm	5.00		-
ii	Installation	Sqm	5.00		-
155	MS Bird Wire mesh of 24 gauge with suitable paint to cover return air duct / openings as per site condition.				-
i	Supply	Sqm	2.00		-
ii	Installation	Sqm	2.00		-
156	Disc valve consisting of frame and disc made of high quality GSS with powder coating and disc attached to the frame by threaded rod. Foam gasket should be sealed around the back of the frame to avoid any air leakage. 150 mm dia MAKE: Airmaster / Caryaire / Dynacraft / Systemair / Vedha				-
i	Supply	Numbers	5.00		-

Sl. no	Item Description	Unit	Quantity	Rate in Rs	Amount in Rs.
ii	Installation	Numbers	5.00		-
157	Non Vision grills for the toilet doors. The grills shall be supplied in two matching halves and shall match the door thickness. The grills shall be powder coated .				-
	MAKE: Airmaster / Caryaire / Dynacraft / Systemair / Vedha				-
i	Supply	Sqm	4.00		-
ii	Installation	Sqm	4.00		-
158	Drain piping using water quality pressure Ratings of SDR 11 (Class 1) CPVC Pipes as per IS 15778 : 2007 with fittings.				-
	Make: Astral / Supreme / Ashirwad				-
a	32mm dia				-
i	Supply	Rmt	25.00		-
ii	Installation	Rmt	25.00		-
b	25mm dia				-
i	Supply	Rmt	50.00		-
ii	Installation	Rmt	50.00		-
159	Design, manufacture, supply, installation, testing and commissioning of the following cubicle type, dead front, sheet steel, wall mounted control panels, including anchoring into the wall. Wiring terminating into MCCB and copper earthing, in each panel shall be provided by the electrical contractor. All starter shall be provided with Stop /Manual /Auto selector switch. All starters shall be provided with potential free Contact for Connections to Building Automation System. All wiring and earthing of motors from the panel shall be included. The panel shall include the following components & accessories. (a) MCCB/ MPCB as per the ratings given below, suitable for motor duty and able to withstand fault level of 20 KA. (b) DOL / SD starter as per KW ratings given. (c) Terminal block for power distribution as required. (d) Contactor, over load relay with built in single phasing protection. (e) Phase indicating lights and indicating light for 'ON' status.(g) Time delay relay for delayed automatic restart of motor. (h) Wiring for microswitch for stopping the fan when fire damper closes (in case of Fan only). (i) Additional relay interlocking for switching ON & OFF for 2 numbers feeders to be considered.				-
	Make : Panel - Bluevolt / Mapro				-
a	7.5 KW				-
i	Supply	Numbers	1.00		-
ii	Installation	Numbers	1.00		-
b	5.5 KW				-
i	Supply	Numbers	1.00		-
ii	Installation	Numbers	1.00		-
160	M.S. Supporting work for Ducting				-
i	Supply & Installation	Kgs	650.00		-
TOTAL in Rs. exluding GST					-
GST @ 18%					-
GRAND TOTAL incl GST . Rs.					-