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Item Wise BoQ

Name of Work: Construction of Center for Good Governance [CGG]- Residential And Academic Building at Baner Yashada Campus,Pune.

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1	A)Residential Building - Building Work			
1.01	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150mm in thickness. (Item No. 2.09)	item1	2170.00	Square Metre
1.02	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift upto 1.5m.) By Mechanical Means (Item No. 21.02)	item2	2170.000	Cubic Metre
1.03	Excavation for foundation in hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift from 1.5 to 3.0m) By Manual Means (Item No. 21.07)	item3	1627.500	Cubic Metre
1.04	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/murum watering, ramming etc. complete.(Lift upto 1.5 m). By Mechanical Means (Item No. 21.20)	item4	794.500	Cubic Metre
1.05	Providing preconstructional antitermite treatment as per I.S. 6313(Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper. (Item No. 21.22)	item5	2558.00	Square Metre
1.06	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 24.01)	item6	300.084	Cubic Metre
1.07	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.15)	item7	257.120	Cubic Metre
1.08	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.35)	item8	17.29	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.09	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) ... (Item No. 25.35)	item9	90.21	Cubic Metre
1.1	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) ... (Item No. 25.35, First Floor)	item10	24.81	Cubic Metre
1.11	Providing and laying Cast in situ/ Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.35, Second Floor)	item11	24.805	Cubic Metre
1.12	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.35, Third Floor)	item12	24.81	Cubic Metre
1.13	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.35, Fourth Floor)	item13	24.81	Cubic Metre
1.14	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.35, Fifth Floor)	item14	24.81	Cubic Metre

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1.15	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.35, Sixth Floor)	item15	24.81	Cubic Metre
1.16	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.35, Seventh Floor)	item16	8.27	Cubic Metre
1.17	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Foundations / Raft	item17	155.55	sqm
1.18	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Beams: Straight / Curved / Segmental	item18	167.75	sqm
1.19	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Coffe Beams: Straight / Curved / Segmental(Rate only)	item19	198.75	sqm

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1.2	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Slabs: (flat, sloping, cantilevered or any other position) and Staircases	item20	210.55	sqm
1.21	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Coffe Slab: (flat, sloping, cantilevered or any other position) and Staircases) (Rate only)	item21	240.50	sqm
1.22	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] RCC Pardi and Shear Walls: Straight / Curved / Segmental	item22	260.70	sqm
1.23	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] RELIEF FORMWORK (Rate only)	item23	265.50	sqm

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1.24	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] GROOVES IN CONCRETE SURFACES (as per pattern) (trapizoidal section) (using teakwood patti) 25 mm wide. (Rate only)	item24	278.80	sqm
1.25	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] GROOVES IN CONCRETE SURFACES (as per pattern) (trapizoidal section) (using teakwood patti) 20 mm wide. (Rate only)	item25	175.30	sqm
1.26	MURALS: Providing, fabricating, erecting and fixing in position shuttering formwork as per pattern and sizing using specializd material (details to be submitted by the contractor while quoting), giving fair finished concrete surfaces, making leak proof joints, using required couplers, tie bolts, M.S. Ties, concrete Spacer, providing openings/ cut-outs/ pockets, etc.; using required deshuttering emulsion which will not stain the concrete, etc. complete at all height, depths, lead & lift and required any height staging and supporting sturdy and braced. Also include removing & dismantling the aforesaid assembly after specified or as approved period from the day of casting of concrete.(Measurement: Surface area around the mural to the nearest square or rectangle or circle) (Proposed Material: Aluminium Cast/ Teak Wood/ MDF/ Fibreglass) Rate to include smooth finish and rendering if required, etc. all complete to the satisfaction of PM. On Wall (rate only)	item26	10.50	sqm
1.27	MURALS: Providing, fabricating, erecting and fixing in position shuttering formwork as per pattern and sizing using specializd material (details to be submitted by the contractor while quoting), giving fair finished concrete surfaces, making leak proof joints, using required couplers, tie bolts, M.S. Ties, concrete Spacer, providing openings/ cut-outs/ pockets, etc.; using required deshuttering emulsion which will not stain the concrete, etc. complete at all height, depths, lead & lift and required any height staging and supporting sturdy and braced. Also include removing & dismantling the aforesaid assembly after specified or as approved period from the day of casting of concrete.(Measurement: Surface area around the mural to the nearest square or rectangle or circle) (Proposed Material: Aluminium Cast/ Teak Wood/ MDF/ Fibreglass) Rate to include smooth finish and rendering if required, etc. all complete to the satisfaction of PM. On Ceiling (rate only)	item27	10.30	sqm
1.28	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.19)	item28	119.978	Cubic Metre

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1.29	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.19, First Floor)	item29	75.58	Cubic Metre
1.3	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.19, Second Floor)	item30	75.58	Cubic Metre
1.31	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.19, Third Floor)	item31	75.58	Cubic Metre
1.32	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.19, Fourth Floor)	item32	75.58	Cubic Metre
1.33	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.19, Fifth Floor)	item33	75.58	Cubic Metre
1.34	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.19, Sixth Floor)	item34	103.74	Cubic Metre
1.35	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.54)	item35	214.21	Cubic Metre
1.36	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.54, First Floor)	item36	226.79	Cubic Metre

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1.37	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.54, Second Floor)	item37	150.660	Cubic Metre
1.38	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.54, Third Floor)	item38	150.660	Cubic Metre
1.39	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.54, Fourth Floor)	item39	150.661	Cubic Metre
1.4	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.54, Fifth Floor)	item40	150.661	Cubic Metre
1.41	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.54, Sixth Floor)	item41	150.661	Cubic Metre
1.42	Providing and laying Cast in situ/ Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.54, Seventh Floor)	item42	162.030	Cubic Metre
1.43	Labour rate for coursed rubble masonry second sort of trap/granite/quartzite/gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually, striking joints inside and raking out joints from outside and watering etc.complete (Item No. 28.09)	item43	18.54	Cubic Metre
1.44	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/in plinth external walls including bailing out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. (Item No. 27.01)	item44	12.36	Cubic Metre
1.45	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm to 20cm including watering and compaction etc. complete. (Item No. 21.37)	item45	52.000	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.46	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. Layers including watering and compacting etc. complete. (Item No. 21.36)	item46	52.000	Cubic Metre
1.47	Providing preconstructional antitermite treatment as per I.S. 6313(Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper. (Item No. 21.22)	item47	1409.400	Square Metre
1.48	Providing dry/trap/granite/quartzite/gneiss rubble stone soling 15cm to 20cm thick including hand packing and compacting etc. complete. (Item No. 21.38)	item48	289.710	Cubic Metre
1.49	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.74)	item49	116.88	Cubic Metre
1.5	Providing and laying Cast in situ/ Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (height up to 4.5 m) (Item No. 25.74, First Floor)	item50	114.300	Cubic Metre
1.51	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.74, Second Floor)	item51	114.30	Cubic Metre
1.52	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.74, Third Floor)	item52	114.300	Cubic Metre
1.53	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.74, Fourth Floor)	item53	114.300	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.54	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.74, Fifth Floor)	item54	114.300	Cubic Metre
1.55	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.74, Sixth Floor)	item55	210.580	Cubic Metre
1.56	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade) (Item No. 26.62)	item56	205.53	Cubic Metre
1.57	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade)(Item No. 26.62, First Floor)	item57	38.130	Cubic Metre
1.58	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade)(Item No. 26.62, Second Floor)	item58	38.130	Cubic Metre
1.59	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete Ready Mix C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade) (Item No. 26.62, Third Floor)	item59	38.13	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.6	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concret Ready Mix C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade) (Item No. 26.62, Fourth Floor)	item60	38.13	Cubic Metre
1.61	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade) (Item No. 26.62, Fifth Floor)	item61	38.13	Cubic Metre
1.62	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade)(Item No. 26.62, Sixth Floor)	item62	38.130	Cubic Metre
1.63	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete C.C. M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directe including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.26)	item63	9.629	Cubic Metre
1.64	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directe including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.26, First Floor)	item64	6.262	Cubic Metre
1.65	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directe including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding einforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.26, Second Floor)	item65	6.26	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.66	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directe including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding enforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.26, Third Floor)	item66	6.26	Cubic Metre
1.67	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directe including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding enforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.26, Fourth Floor)	item67	6.262	Cubic Metre
1.68	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directe including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding enforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.26, Fifth Floor)	item68	6.262	Cubic Metre
1.69	Providing and laying Cast in situ/Exposed form finish Ready Mix cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directe including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding enforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 26.26, Sixth Floor)	item69	6.26	Cubic Metre
1.7	Providing and fixing in position TMT-FE-500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. (Item No. 26.33)	item70	498.140	Metric Tonne
1.71	Providing and laying Cast in situ/Exposed Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.07)	item71	8.60	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.72	Providing and laying Cast in situ/Exposed Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)... (Item No. 26.07, First Floor)	item72	9.46	Cubic Metre
1.73	Providing and laying Cast in situ/Exposed Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)... (Item No. 26.07, Second Floor)	item73	9.464	Cubic Metre
1.74	Providing and laying Cast in situ/Exposed Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)... (Item No. 26.07, Third Floor)	item74	9.464	Cubic Metre
1.75	Providing and laying Cast in situ/Exposed Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)... (Item No. 26.07, Fourth Floor)	item75	9.46	Cubic Metre
1.76	Providing and laying Cast in situ/Exposed Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)... (Item No. 26.07, Fifth Floor)	item76	9.464	Cubic Metre
1.77	Providing and laying Cast in situ/Exposed Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)... (Item No. 26.07, Sixth Floor)	item77	9.464	Cubic Metre
1.78	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ² of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete. (Item No. 29.03)	item78	92.59	Cubic Metre
1.79	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ² of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete.... (Item No. 29.03, First Floor)	item79	89.39	Cubic Metre
1.8	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ² of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete.... (Item No. 29.03, Second Floor)	item80	89.39	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.81	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ²) of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete.... (Item No. 29.03, Third Floor)	item81	89.39	Cubic Metre
1.82	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ²) of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete.... (Item No. 29.03, Fourth Floor)	item82	89.39	Cubic Metre
1.83	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ²) of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete.... (Item No. 29.03, Fifth Floor)	item83	89.39	Cubic Metre
1.84	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ²) of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete.... (Item No. 29.03, Sixth Floor)	item84	58.28	Cubic Metre
1.85	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972) (Item No. 27.15)	item85	292.729	Cubic Metre
1.86	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972)... (Item No. 27.15, First Floor)	item86	145.395	Cubic Metre
1.87	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972)... (Item No. 27.15, Second Floor)	item87	145.395	Cubic Metre
1.88	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972)... (Item No. 27.15, Third Floor)	item88	145.395	Cubic Metre
1.89	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972)... (Item No. 27.15, Fourth Floor)	item89	145.395	Cubic Metre
1.9	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972)... (Item No. 27.15, Fifth Floor)	item90	145.40	Cubic Metre
1.91	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972)... (Item No. 27.15, Sixth Floor)	item91	146.369	Cubic Metre
1.92	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972)... (Item No. 27.15, Seventh Floor)	item92	64.492	Cubic Metre
1.93	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. (Item No. 31.01)	item93	105.00	Square Metre
1.94	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. ... (Item No. 31.01, First Floor)	item94	117.500	Square Metre
1.95	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. ... (Item No. 31.01, Second Floor)	item95	117.500	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
1.96	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. ... (Item No. 31.01, Third Floor)	item96	117.50	Square Metre
1.97	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. ... (Item No. 31.01, Fourth Floor)	item97	117.500	Square Metre
1.98	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. ... (Item No. 31.01, Fifth Floor)	item98	117.500	Square Metre
1.99	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. ... (Item No. 31.01, Sixth Floor)	item99	102.50	Square Metre
2	Providing and laying damp proof course 50mm thick in M20 cement concrete layer and bitumen/using cement with waterproofing compound curing, formwork etc. complete. ... (Item No. 31.01, Seventh Floor)	item100	77.500	Square Metre
2.01	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) (Item No. 11.31)	item101	25.20	Cubic Metre
2.02	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) ... (Item No. 11.31, First Floor)	item102	28.20	Cubic Metre
2.03	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) ... (Item No. 11.31, Second Floor)	item103	28.200	Cubic Metre
2.04	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) ... (Item No. 11.31, Third Floor)	item104	28.200	Cubic Metre
2.05	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) ... (Item No. 11.31, Fourth Floor)	item105	28.20	Cubic Metre
2.06	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) ... (Item No. 11.31, Fifth Floor)	item106	28.20	Cubic Metre
2.07	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) ... (Item No. 11.31, Sixth Floor)	item107	24.600	Cubic Metre
2.08	Providing and casting in situ/ready mix PCC M20 grade of trap metal for coping to head walls/parapet including centering, form work, compaction and curing etc. complete.(with reversible drum type mixer/concrete batch mix plant(pan mixer) with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) ... (Item No. 11.31, Seventh Floor)	item108	9.300	Cubic Metre
2.09	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete. (Item No. 32.26)	item109	700.00	Running Metre
2.1	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete.... (Item No. 32.26, First Floor)	item110	770.00	Running Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.11	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete.... (Item No. 32.26, Second Floor)	item111	770.00	Running Metre
2.12	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete.... (Item No. 32.26, Third Floor)	item112	770.00	Running Metre
2.13	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete.... (Item No. 32.26, Fourth Floor)	item113	770.00	Running Metre
2.14	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete.... (Item No. 32.26, Fifth Floor)	item114	770.000	Running Metre
2.15	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete.... (Item No. 32.26, Sixth Floor)	item115	592.000	Running Metre
2.16	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete.... (Item No. 32.26, Seventh Floor)	item116	310.00	Running Metre
2.17	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete. (Item No. 31.26, First Floor)	item117	7.984	Cubic Metre
2.18	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete. ... (Item No. 31.26, Second Floor)	item118	7.98	Cubic Metre
2.19	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete. ... (Item No. 31.26, Third Floor)	item119	7.98	Cubic Metre
2.2	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete. ... (Item No. 31.26, Fourth Floor)	item120	7.98	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.21	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete. ... (Item No. 31.26, Fifth Floor)	item121	7.98	Cubic Metre
2.22	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete. ... (Item No. 31.26, Sixth Floor)	item122	6.94	Cubic Metre
2.23	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) (Item No. 31.06)	item123	251.15	Square Metre
2.24	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) ... (Item No. 31.06, First Floor)	item124	657.87	Square Metre
2.25	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) ... (Item No. 31.06, Second Floor)	item125	657.87	Square Metre
2.26	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) ... (Item No. 31.06, Third Floor)	item126	657.87	Square Metre
2.27	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) ... (Item No. 31.06, Fourth Floor)	item127	657.865	Square Metre
2.28	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) ... (Item No. 31.06, Fifth Floor)	item128	657.87	Square Metre
2.29	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) ... (Item No. 31.06, Sixth Floor)	item129	469.126	Square Metre
2.3	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. (Item No. 32.04)	item130	248.885	Square Metre
2.31	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. ... (Item No. 32.04, First Floor)	item131	36.096	Square Metre
2.32	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. ... (Item No. 32.04, Second Floor)	item132	36.096	Square Metre
2.33	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. ... (Item No. 32.04, Second Floor)	item133	36.096	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.34	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. ... (Item No. 32.04, Third Floor)	item134	36.10	Square Metre
2.35	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. ... (Item No. 32.04, Fourth Floor)	item135	36.10	Square Metre
2.36	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. ... (Item No. 32.04, Fifth Floor)	item136	36.096	Square Metre
2.37	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. ... (Item No. 32.04, Sixth Floor)	item137	36.10	Square Metre
2.38	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. (Item No. 38.48)	item138	113.99	Square Metre
2.39	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. ... (Item No. 38.48, First Floor)	item139	115.71	Square Metre
2.4	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. ... (Item No. 38.48, Second Floor)	item140	115.71	Square Metre
2.41	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. ... (Item No. 38.48, Third Floor)	item141	115.71	Square Metre
2.42	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. ... (Item No. 38.48, Fourth Floor)	item142	115.710	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.43	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. ... (Item No. 38.48, Fifth Floor)	item143	115.710	Square Metre
2.44	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. ... (Item No. 38.48, Sixth Floor)	item144	94.470	Square Metre
2.45	Providing and fixing Modular false ceiling of 600 x 600mm center to center and 13mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 "(50mm x 40mm) weighing 0.39 Kilogram/m at 60cms center center and fixed with " x "(15 x 15mm) flanges weighing 0.19 Kilogram/m suspended on 6mm dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams including rounding of the edges with alluminium T of 2" x 1 "(50mm x 40mm) weighing 0.39 Kilogram/m etc.(all alluminium sections shall be anodized) including all labour, material, lifts etc. complete. (Item No. 38.52)	item145	155.000	Square Metre
2.46	Providing and fixing in position Gypsum board false ceiling with 12.5mm thick Gypsum boards, screwed/fixd to the under structure of suspended G.I. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50mm maximum center to center distance of 600 milimetre perimeter channel and intermediate channels at maximum center to center distance 1200 milimetre galvanized grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete. (Item No. 38.51)	item146	42.000	Square Metre
2.47	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. (Item No. 32.31)	item147	2342.545	Square Metre
2.48	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. ... (Item No. 32.31, First Floor)	item148	1749.689	Square Metre
2.49	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. ... (Item No. 32.31, Second Floor)	item149	1749.689	Square Metre
2.5	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. ... (Item No. 32.31, Third Floor)	item150	1749.689	Square Metre
2.51	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. ... (Item No. 32.31, Fourth Floor)	item151	1749.689	Square Metre
2.52	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. ... (Item No. 32.31, Fifth Floor)	item152	1749.689	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.53	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. ... (Item No. 32.31, Sixth Floor)	item153	1340.979	Square Metre
2.54	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. (Item No. 32.34)	item154	2692.70	Square Metre
2.55	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. ... (Item No. 32.34, First Floor)	item155	2427.880	Square Metre
2.56	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. ... (Item No. 32.34, Second Floor)	item156	2427.88	Square Metre
2.57	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. ... (Item No. 32.34, Third Floor)	item157	2427.880	Square Metre
2.58	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. ... (Item No. 32.34, Fourth Floor)	item158	2427.88	Square Metre
2.59	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. ... (Item No. 32.34, Fifth Floor)	item159	2427.880	Square Metre
2.6	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. ... (Item No. 32.34, Sixth Floor)	item160	1943.087	Square Metre
2.61	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete. (Item No. 35.21)	item161	2692.696	Square Metre
2.62	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.... (Item No. 35.21, First Floor)	item162	2427.880	Square Metre
2.63	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.... (Item No. 35.21, Second Floor)	item163	2427.880	Square Metre
2.64	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.... (Item No. 35.21, Third Floor)	item164	2427.880	Square Metre
2.65	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.... (Item No. 35.21, Fourth Floor)	item165	2427.88	Square Metre
2.66	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.... (Item No. 35.21, Fifth Floor)	item166	2427.880	Square Metre
2.67	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.... (Item No. 35.21, Sixth Floor)	item167	1943.087	Square Metre
2.68	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. (Item No. 36.11)	item168	2692.696	Square Metre
2.69	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. ... (Item No. 36.11, First Floor)	item169	2427.88	Square Metre
2.7	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. ... (Item No. 36.11, Second Floor)	item170	2427.880	Square Metre
2.71	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. ... (Item No. 36.11, Third Floor)	item171	2427.88	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.72	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. ... (Item No. 36.11, Fourth Floor)	item172	2427.88	Square Metre
2.73	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. ... (Item No. 36.11, Fifth Floor)	item173	2427.88	Square Metre
2.74	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. ... (Item No. 36.11, Sixth Floor)	item174	1943.09	Square Metre
2.75	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. (Item No. 32.12)	item175	941.82	Square Metre
2.76	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. ... (Item No. 32.12, First Floor)	item176	529.65	Square Metre
2.77	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. ... (Item No. 32.12, Second Floor)	item177	529.646	Square Metre
2.78	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. ... (Item No. 32.12, Third Floor)	item178	529.65	Square Metre
2.79	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. ... (Item No. 32.12, Fourth Floor)	item179	529.65	Square Metre
2.8	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. ... (Item No. 32.12, Fifth Floor)	item180	529.65	Square Metre
2.81	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. ... (Item No. 32.12, Sixth Floor)	item181	529.65	Square Metre
2.82	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. ... (Item No. 32.12, Seventh Floor)	item182	394.800	Square Metre
2.83	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete.	item183	941.816	Sqm
2.84	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete. (First Floor)	item184	529.65	Sqm
2.85	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete. ... (Second Floor)	item185	529.646	Sqm

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.86	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete. ... (Third Floor)	item186	529.646	Sqm
2.87	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete. ... (Fourth Floor)	item187	529.646	Sqm
2.88	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete. ... (Fifth Floor)	item188	529.65	Sqm
2.89	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete. ... (Sixth Floor)	item189	529.646	Sqm
2.9	Supplying & providing approved colour washed stone crete plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete. ... (Seventh Floor)	item190	394.80	Sqm
2.91	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete. (Item No. 33.68)	item191	77.98	Square Metre
2.92	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete. ... (Item No. 33.68, First Floor)	item192	117.88	Square Metre
2.93	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete. ... (Item No. 33.68, Second Floor)	item193	117.88	Square Metre
2.94	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete... (Item No. 33.68, Third Floor)	item194	117.88	Square Metre
2.95	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete... (Item No. 33.68, Third Floor)	item195	117.88	Square Metre
2.96	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete... (Item No. 33.68, Fourth Floor)	item196	117.882	Square Metre
2.97	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete... (Item No. 33.68, Fifth Floor)	item197	117.88	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
2.98	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete... (Item No. 33.68, Sixth Floor)	item198	105.46	Square Metre
2.99	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite (Item No. 33.22)	item199	55.08	Square Metre
3	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite ... (Item No. 33.22, First Floor)	item200	6.00	Square Metre
3.01	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite ... (Item No. 33.22, Second Floor)	item201	6.00	Square Metre
3.02	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite ... (Item No. 33.22, Third Floor)	item202	6.000	Square Metre
3.03	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite ... (Item No. 33.22, Fourth Floor)	item203	6.000	Square Metre
3.04	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite ... (Item No. 33.22, Fifth Floor)	item204	6.000	Square Metre
3.05	Providing sills of required material 20mm to 25mm thick, on a bed of cement mortar 1:4 including cement float, filling joints with neat cement slurry, curing, moulding edges, polishing, cleaning complete. b) Granite ... (Item No. 33.22, Sixth Floor)	item205	25.08	Square Metre
3.06	Providing and fixing in position powder coated aluminium louvered windows/ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38mm x 1.22mm box type, 5mm thick sheet glass louvers, of approved quality etc. complete. (Item No. 39.68)	item206	10.530	Square Metre
3.07	Providing and fixing in position powder coated aluminium louvered windows/ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38mm x 1.22mm box type, 5mm thick sheet glass louvers, of approved quality etc. complete. ... (Item No. 39.68, First Floor)	item207	5.04	Square Metre
3.08	Providing and fixing in position powder coated aluminium louvered windows/ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38mm x 1.22mm box type, 5mm thick sheet glass louvers, of approved quality etc. complete. ... (Item No. 39.68, Second Floor)	item208	5.04	Square Metre
3.09	Providing and fixing in position powder coated aluminium louvered windows/ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38mm x 1.22mm box type, 5mm thick sheet glass louvers, of approved quality etc. complete. ... (Item No. 39.68, Third Floor)	item209	5.04	Square Metre
3.1	Providing and fixing in position powder coated aluminium louvered windows/ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38mm x 1.22mm box type, 5mm thick sheet glass louvers, of approved quality etc. complete. ... (Item No. 39.68, Fourth Floor)	item210	5.04	Square Metre
3.11	Providing and fixing in position powder coated aluminium louvered windows/ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38mm x 1.22mm box type, 5mm thick sheet glass louvers, of approved quality etc. complete. ... (Item No. 39.68, Fifth Floor)	item211	5.04	Square Metre
3.12	Providing and fixing in position powder coated aluminium louvered windows/ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38mm x 1.22mm box type, 5mm thick sheet glass louvers, of approved quality etc. complete. ... (Item No. 39.68, Sixth Floor)	item212	3.51	Square Metre
3.13	Providing and fixing 12mm toughened glass door shutter with fittings etc complete.	item213	95.775	Sq.M.

Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.14	Providing and fixing in position(as per 1868/1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90mm at weight 0.637 Kilogram/running metre. with window frame bottom track section 92 x 31.75 x 1.30mm at weight 1.070 Kilogram/running metre.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25mm at weight 0.417 Kilogram/running metre. Inter locking section 40 x 18 x 1.10mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box (Item No. 39.41)	item214	112.19	Square Metre
3.15	Providing and fixing in position(as per 1868/1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90mm at weight 0.637 Kilogram/running metre. with window frame bottom track section 92 x 31.75 x 1.30mm at weight 1.070 Kilogram/running metre.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25mm at weight 0.417 Kilogram/running metre. Inter locking section 40 x 18 x 1.10mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box ... (Item No. 39.41, First Floor)	item215	141.23	Square Metre
3.16	Providing and fixing in position(as per 1868/1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90mm at weight 0.637 Kilogram/running metre. with window frame bottom track section 92 x 31.75 x 1.30mm at weight 1.070 Kilogram/running metre.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25mm at weight 0.417 Kilogram/running metre. Inter locking section 40 x 18 x 1.10mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box ... (Item No. 39.41, Second Floor)	item216	141.23	Square Metre
3.17	Providing and fixing in position(as per 1868/1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90mm at weight 0.637 Kilogram/running metre. with window frame bottom track section 92 x 31.75 x 1.30mm at weight 1.070 Kilogram/running metre.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25mm at weight 0.417 Kilogram/running metre. Inter locking section 40 x 18 x 1.10mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box ... (Item No. 39.41, Third Floor)	item217	141.23	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.18	Providing and fixing in position(as per 1868/1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90mm at weight 0.637 Kilogram/running metre. with window frame bottom track section 92 x 31.75 x 1.30mm at weight 1.070 Kilogram/running metre.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25mm at weight 0.417 Kilogram/running metre. Inter locking section 40 x 18 x 1.10mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box ... (Item No. 39.41, Fourth Floor)	item218	141.225	Square Metre
3.19	Providing and fixing in position(as per 1868/1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90mm at weight 0.637 Kilogram/running metre. with window frame bottom track section 92 x 31.75 x 1.30mm at weight 1.070 Kilogram/running metre.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25mm at weight 0.417 Kilogram/running metre. Inter locking section 40 x 18 x 1.10mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box ... (Item No. 39.41, Fifth Floor)	item219	141.225	Square Metre
3.2	Providing and fixing in position(as per 1868/1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90mm at weight 0.637 Kilogram/running metre. with window frame bottom track section 92 x 31.75 x 1.30mm at weight 1.070 Kilogram/running metre.. Top and side track section 92 x 31.75 x 1.30mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25mm at weight 0.417 Kilogram/running metre. Inter locking section 40 x 18 x 1.10mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box ... (Item No. 39.41, Sixth Floor)	item220	141.23	Square Metre
3.21	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5mm thick including fixing in position anodised aluminium frame section of 80 x 38mm x 1.22mm size box, cutting to the required size with all wastage, labour, lead lift etc. complete. (Item No. 39.76)	item221	12.744	Square Metre
3.22	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5mm thick including fixing in position anodised aluminium frame section of 80 x 38mm x 1.22mm size box, cutting to the required size with all wastage, labour, lead lift etc. complete. ... (Item No. 39.76, First Floor)	item222	44.604	Square Metre
3.23	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5mm thick including fixing in position anodised aluminium frame section of 80 x 38mm x 1.22mm size box, cutting to the required size with all wastage, labour, lead lift etc. complete. ... (Item No. 39.76, Second Floor)	item223	44.604	Square Metre
3.24	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5mm thick including fixing in position anodised aluminium frame section of 80 x 38mm x 1.22mm size box, cutting to the required size with all wastage, labour, lead lift etc. complete. ... (Item No. 39.76, Third Floor)	item224	44.60	Square Metre
3.25	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5mm thick including fixing in position anodised aluminium frame section of 80 x 38mm x 1.22mm size box, cutting to the required size with all wastage, labour, lead lift etc. complete. ... (Item No. 39.76, Fourth Floor)	item225	44.604	Square Metre
3.26	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5mm thick including fixing in position anodised aluminium frame section of 80 x 38mm x 1.22mm size box, cutting to the required size with all wastage, labour, lead lift etc. complete. ... (Item No. 39.76, Fifth Floor)	item226	44.60	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.27	Providing and fixing aluminium grill diamond mesh type DG202 of 7.5mm thick including fixing in position anodised aluminium frame section of 80 x 38mm x 1.22mm size box, cutting to the required size with all wastage, labour, lead lift etc. complete. ... (Item No. 39.76, Sixth Floor)	item227	44.60	Square Metre
3.28	Providing and Fixing MS railing with top pipe of 50mm dia. and vertical pipe of 38mm dia at 0.60m c/c or as required and horizontal pipes of 25mm dia in three rows, all pipes of 2mm thick including buffing, fabricating fixtures and fastening including pipe base of appropriate diameter and ball base of 75mm dia above newel post of 75mm diameter etc.The handrail, horizontal pipes, verticles, bends to be finished with three coats of approved synthetic enamel paint from approved make inclusive of all surface preparation with Zinc chromate primer as specific etc complete.	item228	186.40	Square Metre
3.29	Providing and fixing solid core flush door shutter in double leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. (Item No. 39.95)	item229	32.40	Square Metre
3.3	Providing and fixing solid core flush door shutter in double leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. ... (Item No. 39.95, Sixth Floor)	item230	6.75	Square Metre
3.31	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete (Item No. 39.01)	item231	1.95	Cubic Metre
3.32	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete ... (Item No. 39.01, First Floor)	item232	2.160	Cubic Metre
3.33	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete ... (Item No. 39.01, Second Floor)	item233	2.16	Cubic Metre
3.34	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete ... (Item No. 39.01, Third Floor)	item234	2.16	Cubic Metre
3.35	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete ... (Item No. 39.01, Fourth Floor)	item235	2.16	Cubic Metre
3.36	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete ... (Item No. 39.01, Fifth Floor)	item236	2.16	Cubic Metre
3.37	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete ... (Item No. 39.01, Sixth Floor)	item237	1.36	Cubic Metre
3.38	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. (Item No. 39.09)	item238	50.85	Square Metre
3.39	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. ... (Item No. 39.09, First Floor)	item239	81.00	Square Metre
3.4	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. ... (Item No. 39.09, Second Floor)	item240	81.000	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.41	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. ... (Item No. 39.09, Third Floor)	item241	81.00	Square Metre
3.42	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. ... (Item No. 39.09, Fourth Floor)	item242	81.00	Square Metre
3.43	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. ... (Item No. 39.09, Fifth Floor)	item243	81.00	Square Metre
3.44	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. ... (Item No. 39.09, Sixth Floor)	item244	51.75	Square Metre
3.45	Providing and laying in position flooring and skirting of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. (Item No. 33.34)	item245	1085.680	Square Metre
3.46	Providing and laying in position flooring and skirting of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. ... (Item No. 33.34, First Floor)	item246	734.010	Square Metre
3.47	Providing and laying in position flooring and skirting of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. ... (Item No. 33.34, Second Floor)	item247	734.01	Square Metre
3.48	Providing and laying in position flooring and skirting of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. ... (Item No. 33.34, Third Floor)	item248	734.010	Square Metre
3.49	Providing and laying in position flooring and skirting of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. ... (Item No. 33.34, Fourth Floor)	item249	734.010	Square Metre
3.5	Providing and laying in position flooring and skirting of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. ... (Item No. 33.34, Fifth Floor)	item250	734.010	Square Metre
3.51	Providing and laying in position flooring and skirting of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. ... (Item No. 33.34, Sixth Floor)	item251	519.91	Square Metre
3.52	Providing and laying polished hand cut Kotah Stone flooring 25mm to 30mm thick and 45cm to 55cm wide in plain/diamond pattern on a bed of 1:6 C.M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. (Item No. 33.08)	item252	183.150	Square Metre
3.53	Providing and laying polished hand cut Kotah Stone flooring 25mm to 30mm thick and 45cm to 55cm wide in plain/diamond pattern on a bed of 1:6 C.M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. ... (Item No. 33.08, Sixth Floor)	item253	242.60	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.54	Providing and fixing high polished granite stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.	item254	191.31	Sqm
3.55	Providing and fixing high polished granite stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.... (First Floor)	item255	23.31	Sqm
3.56	Providing and fixing high polished granite stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.... (Second Floor)	item256	23.31	Sqm
3.57	Providing and fixing high polished granite stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.... (Third Floor)	item257	23.31	Sqm
3.58	Providing and fixing high polished granite stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.... (Fourth Floor)	item258	23.31	Sqm
3.59	Providing and fixing high polished granite stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.... (Fifth Floor)	item259	23.310	Sqm
3.6	Providing and fixing high polished granite stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.... (Sixth Floor)	item260	23.31	Sqm
3.61	Providing and fixing high polished kota stone for wall cladding having stones 25mm to 30mm thick and required width in 1:3 cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning complete.	item261	73.20	Sqm
3.62	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete. (Item No. 33.42)	item262	156.67	Square Metre
3.63	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete. (Item No. 33.42, First Floor)	item263	176.51	Square Metre
3.64	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.(Item No. 33.42, Second Floor)	item264	176.51	Square Metre
3.65	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.(Item No. 33.42, Third Floor)	item265	176.506	Square Metre
3.66	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.(Item No. 33.42, Fourth Floor)	item266	176.506	Square Metre
3.67	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.(Item No. 33.42, Fifth Floor)	item267	176.506	Square Metre
3.68	Providing and laying vitrified matt finish tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.(Item No. 33.42, Sixth Floor)	item268	125.63	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.69	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. (Item No. 33.18)	item269	73.497	Square Metre
3.7	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. ... (Item No. 33.18, First Floor)	item270	43.72	Square Metre
3.71	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. ... (Item No. 33.18, Second Floor)	item271	43.72	Square Metre
3.72	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. ... (Item No. 33.18, Third Floor)	item272	43.72	Square Metre
3.73	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. ... (Item No. 33.18, Fourth Floor)	item273	43.72	Square Metre
3.74	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. ... (Item No. 33.18, Fifth Floor)	item274	43.72	Square Metre
3.75	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. ... (Item No. 33.18, Sixth Floor)	item275	43.72	Square Metre
3.76	Providing and laying ceramic tiles having size 30cm. x 45cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/colour cement slurry cleaning curing etc. complete. (Item No. 33.26)	item276	209.714	Square Metre
3.77	Providing and laying ceramic tiles having size 30cm. x 45cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/colour cement slurry cleaning curing etc. complete. ... (Item No. 33.26, First Floor)	item277	437.54	Square Metre
3.78	Providing and laying ceramic tiles having size 30cm. x 45cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/colour cement slurry cleaning curing etc. complete. ... (Item No. 33.26, Second Floor)	item278	437.54	Square Metre
3.79	Providing and laying ceramic tiles having size 30cm. x 45cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/colour cement slurry cleaning curing etc. complete. ... (Item No. 33.26, Third Floor)	item279	437.54	Square Metre
3.8	Providing and laying ceramic tiles having size 30cm. x 45cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/colour cement slurry cleaning curing etc. complete. ... (Item No. 33.26, Fourth Floor)	item280	437.54	Square Metre
3.81	Providing and laying ceramic tiles having size 30cm. x 45cm. confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/colour cement slurry cleaning curing etc. complete. ... (Item No. 33.26, Fifth Floor)	item281	437.535	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
3.82	Providing and laying ceramic tiles having size 30cm. x 45cm. conforming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/colour cement slurry cleaning curing etc. complete. ... (Item No. 33.26, Sixth Floor)	item282	265.533	Square Metre
3.83	Providing and fixing MS powder coated door including all material and labour etc complete.	item283	53.24	Square Metre
3.84	Providing and fixing MS powder coated door including all material and labour etc complete.... (First Floor)	item284	77.610	Square Metre
3.85	Providing and fixing MS powder coated door including all material and labour etc complete.... (Second Floor)	item285	77.610	Square Metre
3.86	Providing and fixing MS powder coated door including all material and labour etc complete.... (Third Floor)	item286	77.610	Square Metre
3.87	Providing and fixing MS powder coated door including all material and labour etc complete.... (Fourth Floor)	item287	77.61	Square Metre
3.88	Providing and fixing MS powder coated door including all material and labour etc complete.... (Fifth Floor)	item288	77.610	Square Metre
3.89	Providing and fixing MS powder coated door including all material and labour etc complete.... (Sixth Floor)	item289	77.19	Square Metre
3.9	Providing and fixing MS powder coated door including all material and labour etc complete.... (Seventh Floor)	item290	21.60	Square Metre
3.91	Providing cement based water proofing treatment to terraces(Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20mm. thick layers of same mortar added with jute fiber at 1Kilogramper bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/-including ponding test etc. complete. (Item No. 31.04, Seventh Floor)	item291	1083.00	Square Metre
3.92	Providing and applying a base coat comprising of 1KilogramPolydee-MC and 1Kilogramfresh cement after wetting the surface followed by drying the surface for 2 days, apply primer coat of TP-40 and after drying, applying Polydee-11 two component(mixing ratio 2 A : 1 B)) Antibacterial food grade coating inside drinking water tank in two coats with time interval of minimum 8 hrs. covering 7 years guarantee on Court Fee Stamp Paper of Rs. 100/-etc. complete. (Item No. 31.11, Seventh Floor)	item292	370.09	Square Metre
3.93	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc. (Item No. 46.09)	item293	68.44	Cubic Metre
3.94	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc. ... (Item No. 46.09, First Floor)	item294	68.44	Cubic Metre
3.95	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc. ... (Item No. 46.09, Second Floor)	item295	68.440	Cubic Metre
3.96	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete. (Item No. 46.13)	item296	50.00	Cubic Metre
3.97	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete. ... (Item No. 46.13, First Floor)	item297	50.00	Cubic Metre
3.98	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete. ... (Item No. 46.13, Second Floor)	item298	50.00	Cubic Metre
3.99	Transportation of material obtained from excavation including soil, rubble, bricks, RCC concrete, kerb stones, steel railing, iron pipes, channels, etc. Obtained from dismantling, loading in truck of minimum 5 cum capacity or designed capacity and transporting within the municipal limits or any designated place of corporation as directed by engineer incharge unloading, stacking or spreading of material, etc complete. Drainage DSR 2022-23, Item No.19141	item299	461.89	Cum
4	Providing & fixing Pelmet(Plywood) with all fittings, etc complete	item300	231.66	Cum
5	Residential Building - Electric Installation			
5.01	Supplying, erecting & marking SPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item301	315	Each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
5.02	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item302	489	Each
5.03	Supplying, erecting & marking DP MCB 40A to 63A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-MCB	item303	5	Each
5.04	Supplying, erecting & marking TPMCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item304	11	Each
5.05	Supplying, erecting & marking TPMCB 40A to 63A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item305	3	Each
5.06	Supplying & erecting triple pole and neutral distribution board (TPNDB),SPMCB of 8 ways / phase (24 poles), with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	item306	11	Each
5.07	Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 12 ways /36 poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (vertical busbar type) as per specification no. SW-SWR/MCBDB	item307	3	Each
5.08	Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 6 ways (6 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification no. SW-SWR/MCBDB	item308	114	Each
5.09	Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 10 ways (10 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification no. SW-SWR/MCBDB	item309	3	Each
5.1	Supplying and erecting blanking plate of suitable size on MCBDB.	item310	20	Each
5.11	Supplying, erecting & commissioning 2 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item311	127	Each
5.12	Supplying, erecting & commissioning 2 pole RCCB40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item312	8	Each
5.13	Supplying, erecting, testing & commissioning 100 kVAr, 440 V, 3 phase, 50 Hz., APFC Panel with contactor logic with intelligent microprocessor relay, consisting of 2,3,5,10,20,20,20,20 or suitable steps of APP/MPP type capacitor units with detuned (harmonic filter) reactors of suitable rating, APFC panel shall be compliance to IEC 61439 and power quality IEC 61921 standard as per specification no. CP-ED/APFC.	item313	0	Each
5.14	Supplying and erecting quartz electronic time switch having 24 hour dial to work on 250 V 50 cycle AC having built in rechargeable nickel cadmium batteries to run the time switch on failure of supply having switch contact rating up to 16A to use independently or in conjunction with contactor.	item314	0	Each
5.15	Supplying and erecting four pole power contactor 430 V, 16 A for time switch complete erected on provided wooden block/ box, with necessary materials.	item315	0	Each
5.16	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½core 240 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item316	260	Mtr
5.17	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 95 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item317	90	Mtr

Sl. No.	Item Description	Item Code / Make	Quantity	Units
5.18	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 35 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item318	5	Mtr
5.19	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 25 sq. mm. aluminium conductor complete erected with glands & lugs on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item319	5	Mtr
5.2	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item320	20	Mtr
5.21	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item321	460	Mtr
5.22	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item322	30	Mtr
5.23	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 16 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item323	380	Mtr
5.24	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item324	30	Mtr
5.25	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item325	10	Mtr
5.26	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item326	10	Mtr
5.27	Supplying and erecting PVC box trunking of size 50x50 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX. (Outside Room in passage)	item327	598	Mtr
5.28	Supplying and erecting HMS PVC conduit FRLS grade 25 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC.	item328	1925	Mtr
5.29	Supplying and laying HMS PVC conduit FRLS grade 25 mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC.	item329	3390	Mtr
5.3	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	item330	7100	Mtr
5.31	Supplying and erecting mains with 1x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW (NOTE 3)	item331	7100	Mtr
5.32	Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places.as per specification No: WG-MA/BW	item332	2275	Mtr

Sl. No.	Item Description	Item Code / Make	Quantity	Units
5.33	Supplying and erecting mains with 1x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places.as per specification No: WG-MA/BW (NOTE 3)	item333	2275	Mtr
5.34	Supplying and erecting mains with 3x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW	item334	90	Mtr
5.35	Supplying and erecting mains with 1x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW	item335	90	Mtr
5.36	Supplying and erecting modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	item336	44	Each
5.37	Supplying and erecting modular type switch 16A duly erected on provided plate and box with wiring connections complete.	item337	345	Each
5.38	Supplying and erecting modular type switch 16 / 20 A with indicator, duly erected on provided plate and box with wiring connections complete	item338	20	Each
5.39	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete	item339	73	Each
5.4	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	item340	345	Each
5.41	Supplying and erecting modular type blanking plate one module, duly erected on provided plate & box.	item341	20	Each
5.42	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item342	256	Each
5.43	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item343	364	Each
5.44	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item344	10	Each
5.45	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item345	10	Each
5.46	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background	item346	10	Each
5.47	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item347	2	Each
5.48	Point wiring for light/bell concealed type in min 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification No: WG PW/CW	item348	1851	Point
5.49	Point wiring for ceiling fan concealed type in min 20 mm HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification no. WG-PW/CW	item349	125	Point

Sl. No.	Item Description	Item Code / Make	Quantity	Units
5.5	Secondary point wiring for additional light/ bell point, concealed type in min 20 mm FRLS grade PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires with required accessories as per specification No: WG-PW/CW	item350	397	Point
5.51	Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WG-PW/CW	item351	720	Point
5.52	Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 770 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.	item352	6	Point
5.53	Wardrobe Light DESIGN: 3/5Watt Made of silver plastic is discreet and unobtrusive,INSTALLATION: The lamp can be attached with the included mounting material either with screws and dowels or with adhesive strips. APPLICATION: The wall lamp can be used in a variety of ways, e.g. in the wardrobe.	item353	339	Each
5.54	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size.(132 ROOMS x 2)	item354	113	Each
5.55	Decorative Wall Light in Toilets This exclusive wall lamp looks very elegant thanks to the chrome elements used in a targeted manner. MATERIAL/COLOUR: The light is particularly effective thanks to the opal-white glass, which is surrounded by a chrome ring. TYPE OF PROTECTION: The light is protected by protection class IP44 and is therefore perfect for use in the bathroom. LAMPS: A 20 watt LED lamp with a strength of 1600 lumens, 4000-6000k color is permanently installed in the lamp.	item355	226	Each
5.56	Decorative Wall Light In Rooms DESIGN: This wall light is a real eye-catcher thanks to its oval shape and the black and gold coloring. MATERIAL: The lamp is made entirely of metal and is black on the outside and gold leaf on the inside. LIGHTING: The upward and downward lighting creates a beautiful lighting effect on the chosen wall. BULBS INCLUDED: A 18 watt LED bulb with 230 lumens and warm white light color (3600 Kelvin) is permanently installed in the light.	item356	460	Each
5.57	Reading Light A modern and discreet interior light for your walls. The simple black design convinces with its functionality and the Scandinavian look. MATERIAL/COLOUR: The small interior light is completely matt black and consists of plastic and metal. The neck can be moved flexibly and adapted to your wishes. APPLICATION LOCATION: Whether as a reading light next to the bed, as a night light, as a work light at the desk or as atmospheric lighting in the living room, you are well equipped with this lamp.: Whether as a reading light next to the bed, as a night light or as atmospheric lighting in the living room, with this Lamp you are well equipped. LAMPS: The existing GU10 allows lamps with a maximum power of 25 watts for the wall light. Luminous intensity and light color can be freely selected by you.	item357	226	Each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
5.58	Supplying and erecting LED square / circular Max. 14 W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 1500 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED.	item358	646	Each
5.59	Supplying and erecting LED Strip light 5m Length Max. 60 W/12W/Mtr IP20 class having minimum lumens output of 800 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f.>0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50, including driver/SMPS 120W, Housing material Aluminium LLS-12WFT 50mmx70mm Led Light Fixtures (12 foot) EMPTY with suspension Kit, HOUSING with 1 year warranty	item359	10	Each
5.6	Supplying & erecting inverter LED batten 20W tube light fitting with polycarbonate housing, heat sink, integrated HF electronic driver, Min. 2600 mAh Lithium ion Battery with charging time of 8-10 Hours and backup time of Min. 3 hrs. with minimum 25% of initial Watts having luminous efficacy of 100 lumen/watt, CRI>80, CCT of 6500K and THD<=20% having useful life of minimum 25000 hrs. with overheating protection with 2 years warranty.	item360	10	Each
5.61	Supplying and erecting integrated LED flood light fitting Max. 50W IP65 & IK07 class having pressure die-cast aluminium housing, having system lumens output of Min. 5000 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-270V, inbuilt surge protection of 4 kV, Life class of 50,000 Hrs at L70B50 including driver with U shaped bracket with minimum 2 Years warranty as per specification No. FG-ODF/FL.	item361	2	Each
5.62	Supplying and erecting modular type 32A, DP key tag switch with key tag on provided plate and box with wiring connections complete.	item362	113	Each
5.63	Supplying and erecting fan hook box of 10 mm M.S. round bar bounded to the R.C.C. bars upto 50 mm length each side and pierced through a 16 S.W.G. thick aluminium/M.S. Bowl 100 mm dia. or equivalent square size and having depth upto 75 mm complete erected with duly painted by one coat of red oxide paint and two coats of paint erected in position and without any leakage of slurry of cement concrete on either side of the box and positioned to the bottom level of the slab.	item363	125	Each
5.64	Supplying and erecting 'B' class G.I .pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire.	item364	5	Each
5.65	Supplying and erecting Energy Saving BLDC Ceiling fan 230 V A.C. 50 cycles 1200 mm, max. energy consumption of 28W having service ratio (CMM/W) of Min. 8 , PF>0.9, THD	item365	125	Each
5.66	Supplying and erecting exhaust fan medium duty 230 V A.C. 50 cycles 225 mm. 1400 RPM with condenser complete erected in position with necessary materials. Fan motor with moisture proof treatment and 'E' class insulation.	item366	119	Each
5.67	Providing & erecting hot dipped galvanised ladder type cable tray manufactured from 16 SWG (1.6 mm thick) GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware.	item367	85	Mtr
5.68	Supplying, erecting, testing & commissioning of 3 kVA capacity on line pure sine wave,PWM,IGBT based UPS with 0.8 to unity output pf ,single phase input & 1 phase output complete with all protections as per specification no. AP-UPS (Without batteries)	item368	1	Each
5.69	Supplying and erecting 12 V/150Ah Tubular battery with battery terminal wire, duly charged complete with 36 months warranty complete. 30 MINUTES BACKUP	item369	2	Each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
5.7	Supplying & laying (including excavation) reinforced cement concrete pipe of NP-2 class of 250 mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	item370	265	Mtr
5.71	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channel half round G.S.W. pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 Kilogram with frame etc complete.	item371	24	Each
5.72	Supplying, installation, testing & commissioning of Infrared, Surface Mounted PIR occupancy Sensor with day light dimming in the false ceiling / surface, compatible for 30/ 15Watt LED lights	item372	61	Each
5.73	Supplying and erecting LED square / circular Max. 14 W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 1500 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED. Min. 2600 mAh Lithium ion Battery with charging time of 8-10 Hours and backup time of Min. 3 hrs. (6 per floor * 6 Floor + 30 in Gr + Gym)	item373	66	Each
5.74	Supplying and erecting LED Strip light 5m Length Max. 60 W/12W/Mtr IP20 class having minimum lumens output of 800 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f.>0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50, including driver/SMPS 120W, Housing material Aluminium LLS-12WFT 50mmx70mm Led Light Fixtures (12 foot) EMPTY with suspension Kit, HOUSING with 1 year warranty Min. 2600 mAh Lithium ion Battery with charging time of 8-10 Hours and backup time of Min. 3 hrs.	item374	2	Each
5.75	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame.	item375	2	Each
5.76	Supplying, installation and testing of maintenance free earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with 25 kg Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity complete, and recording the results Specification no. EA-MOBI	item376	8	Each
5.77	Supplying & erecting conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40 mm dia copper pipe of standard length with 5 Nos. copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation complete.	item377	7	Each
5.78	Supplying and erecting annealed bare copper wire of high purity of required sizes used for earthing on wall with necessary copper clamps fixed on wall/cable/conduit with screws complete.	item378	80	kg
5.79	Supply, Installation, testing and commissioning of cubical type MV Panel conform to IEC:61439-I as per technical specifications, single line diagram & approval of Drawings prior to manufacturing, packed in wooden crates with PVC sheets inner packing, transport to site, compartmental cubicle type freestanding with appropriate cable entries, front operating, front maintained wherever required complete with base frame etc. erected in 14 gauge CRCA sheet and surface treated with phosphating seven tank process and duly powder coated with MSEDCL approved color, feeder pillar should be with supporting angles, self-locks, gasket and slanting top to be erected on provided foundation	item379	0	Each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
5.8	Main Panel Residential Block 01 Duty -Duty: Indoor Type (IP 42) Incomer-1 Nos of 800A FP LSIG Microprocesor based MCCB with aux contacts, ON, OFF, TRIP Indicators, Multifunction Dual Source Meter. Busbar - 800A TPN AI Busbar Outgoings - 1 Nos of 500A FP MCCB, 1 Nos 400A FP MCCB, 1 Nos 125A FP MCCB, 11 Nos 63A FP MCB,	item380	1	Each
5.81	Main Panel Residential Block 02 Incomer-1 Nos of 400A FP LSIG Microprocesor based MCCB with aux contacts, ON, OFF, TRIP Indicators, Multifunction Dual Source Meter. Busbar - 400A TPN AI Busbar Outgoings - 1 Nos 125A FP MCCB, 10 Nos 63A FP MCB, 1 Nos 40A FP MCB, 2 Nos 32A FP MCB, 1 Nos 25A FP MCB, 1 Nos 10A SP MCB, SPD Class I+II	item381	1	Each
5.82	Floor Panel Residential Block Incomer-1 Nos of 630A FP LSIG Microprocesor based MCCB with aux contacts, ON, OFF, TRIP Indicators, Multifunction Dual Source Meter. Busbar - 100A TPN AI Busbar Outgoings - 13 NOS 25A DP MCB, 2 NOS 32 A DP MCB	item382	11	Each
6	Residential Building - Lift,Internal Electrical Work			
6.01	SITC of Electric Traction Passenger Lift with <ul style="list-style-type: none"> · Rated capacity :- 16 Passenger/1088Kg · Floors :- G+7 floor (8 Stops/8 Landings) · Travel :- 30 mtrs · Location of Lift Machine:- MR/MRL · Rated speed :- 1.0mps VS · Car/Landing door clear opening of 1000 mm wide x 2000 mm high · Clear Car size of 1600 mm wide x 1600 mm deep x 2250mm high · Lift shaft available having clear size of 2500mm wide x 2200mm deep, pit depth-1500mm, Overhead height -4500mm · Doors type :- COPO/TOPO Doors with frame made from SS 304 grade solid(non-cladded) sheet of 1.5mm thick in hairline finish for car and all landing doors with SS door architraves/frames The lift doors shall have minimum 1 hour fire rating (with submission of necessary valid test certificate issued by NABL accredited or Independent test laboratory). · Lift car enclosure made from SS 304 grade solid (non-cladded) sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. The lift car interior design shall be done as per the directions of engineer in charge.. · COP with SS face plate having metallic push buttons with Braille code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with / without attendant key switch, OWD with audio-visual alarm, VAS in Marathi, Hindi & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor. · Clear Car size of 1300 mm wide x 1100 .mm deep x2000 .mm 	item383	1	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
6.02	<p>SITC of Electric Traction Passenger Lift with</p> <ul style="list-style-type: none"> · Rated capacity :- 13 Passenger/884Kg · Floors :- G+7 floor (8 Stops/8 Landings) · Travel :- 30 mtrs · Location of Lift Machine:- MR/MRL · Rated speed :- 1.0mps VS · Car/Landing door clear opening of 900 mm wide x 2000 mm high · Clear Car size of 1300 mm wide x 1350 mm deep x 2250mm high · Lift shaft available having clear size of 2600mm wide x 1900mm deep, pit depth-1500mm, Overhead height -4500mm · Doors type :- COPO/TOPO Doors with frame made from SS 304 grade solid(non-cladded) sheet of 1.5mm thick in hairline finish for car and all landing doors with SS door architraves/frames The lift doors shall have minimum 1 hour fire rating (with submission of necessary valid test certificate issued by NABL accredited or Independent test laboratory). · Lift car enclosure made from SS 304 grade solid (non-cladded) sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. The lift car interior design shall be done as per the directions of engineer in charge.. · COP with SS face plate having metallic push buttons with Braille code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with / without attendant key switch, OWD with audio-visual alarm, VAS in Marathi, Hindi & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor. · Clear Car size of 1300 mm wide x 1100 .mm deep x2000 .mm 	item384	2	Nos
6.03	ITC of Duplex Lift control system for two nos. microprocessor/PLC based simplex lift controllers along with necessary software with programming and hardware e.g. logic board, necessary communication/control/data cabling laying in rigid PVC conduits/trunking etc. complete.	item385	1	Nos
6.04	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	item386	140.00	m
6.05	Supplying and erecting mains with 1x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	item387	140.00	m
6.06	Supplying and erecting modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	item388	24.00	Nos
6.07	Supplying and erecting modular type switch 16A duly erected on provided plate and box with wiring connections complete.	item389	24.00	Nos
6.08	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	item390	24.00	Nos
6.09	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	item391	24.00	Nos
6.1	Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 module duly erected.	item392	24.00	Nos
6.11	Supplying and erecting modular type (two module) electronic step regulator for fan, duly erected on provided plate and box with wiring connections complete.	item393	3.00	Nos
6.12	Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WG-PW/CW	item394	3.00	Point
6.13	Point wiring for ceiling fan concealed type in min 20 mm HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification no. WG-PW/CW	item395	3.00	Point
6.14	Point wiring for light/bell concealed type in min 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification No: WG PW/CW	item396	6.00	Point

Sl. No.	Item Description	Item Code / Make	Quantity	Units
6.15	Supplying and erecting bulk head LED fitting max. 10W with high transitivity diffuser with system lumens output of min. 1100 lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., THD<10%, p.f. >0.95, operating range of 140-260V, in built surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, IP66, IK09 rated on provided PVC Block / wooden board with 3 years warranty.	item397	24.00	Nos
6.16	Supplying and erecting CRCA powder coated corridor/passage light LED fitting (4 feet) Max. 17W with high transitivity diffuser with system lumens output of Min. 2000 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50, including driver, with end caps on provided PVC Block / wooden board with 3 years warranty.	item398	6.00	Nos
6.17	Providing recess in brick wall suitable for erection of exhaust fan up to 450mm. sweep complete with grouting of nut, bolts, plastering and colour washing to match the colour of the wall for the wall thickness of 225 mm.	item399	3.00	Nos
6.18	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC	item400	3.00	Nos
6.19	Supplying and erecting exhaust fan medium duty 230 V A.C. 50 cycles 225 mm. 1400 RPM with condenser complete erected in position with necessary materials. Fan motor with moisture proof treatment and 'E' class insulation.	item401	3.00	Nos
6.2	Supplying and erecting Energy Saving BLDC Ceiling fan 230 V A.C. 50 cycles 1200 mm, max. energy consumption of 28W having service ratio (CMM/W) of Min. 8 , PF>0.9, THD<10% with IR remote control/compatible speed regulator, Temperature Rise of Max. 40 deg. C, having external mounted control PCB completely erected in position as per specification no. FG-FN/CF	item402	5.00	Nos
6.21	Supplying, erecting & marking SPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item403	9.00	Nos
6.22	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item404	9.00	Nos
6.23	Supplying, erecting & commissioning 2 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item405	3.00	Nos
6.24	Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 6 ways (6 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification no. SW-SWR/MCDB	item406	3.00	Nos
6.25	Supplying, erecting & commissioning 4 pole RCCB 63A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item407	3.00	Nos
6.26	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame.	item408	3.00	Nos
6.27	Supplying and erecting iron work, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority.	item409	100.00	kg
6.28	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item410	150.00	m
6.29	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	item411	9.00	m
6.3	Supplying, installation and testing of maintenance free earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with 25 kg Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity complete, and recording the results Specification no. EA-MOBI	item412	6.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
6.31	Supplying and erecting annealed bare copper wire of high purity of required sizes used for earthing on wall with necessary copper clamps fixed on wall/cable/conduit with screws complete.	item413	60.00	kg
7	Residential Building - LV SECTION- I (NETWORKING & TELEPHONE SYSTEM)			
7.01	Supplying & erecting HMS PVC conduit 25mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC. (Conduit without bathroom 114 + Conduit for TV 304 + for CCTV 200)	item414	618	m
7.02	Supplying and laying HMS PVC conduit FRLS grade 32mm dia. with necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC. (Inside Rooms for CAT 6 & Tel)	item415	300	m
7.03	Supplying and erecting PVC box trunking of size 50x50 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX. (Outside Room in passage)	item416	598	m
7.04	Supplying and erecting PVC box trunking of size 100x50 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX .	item417	10	m
7.05	Supplying and erecting modular type T.V. socket single outlet, duly erected on provided plate and box with wiring connections complete.	item418	114	Each
7.06	Supplying and erecting modular type telephone socket one gang with safety shutter, duly erected on provided plate and box with wiring connections complete.	item419	124	Each
7.07	Supplying and erecting modular type blanking plate one module, duly erected on provided plate & box.	item420	124	Each
7.08	Supplying, erecting & terminating 2 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, nylon rip cord & grey colour sheathed with FR PVC, confirming to ITD specification S/WS 113C laid in provided PVC casing-n-capping/conduit as per specification no. WG-TW	item421	1080	m
7.09	Supplying, erecting & terminating 100 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, nylon rip cord & grey colour sheathed with FR PVC, confirming to ITD specification S/WS 113C laid in provided PVC casing-n-capping/conduit as per specification no. WG-TW	item422	50	m
7.1	Supplying, erecting & terminating 20 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, nylon rip cord & grey colour sheathed with FR PVC, confirming to ITD specification S/WS 113C laid in provided PVC casing-n-capping/conduit as per specification no. WG-TW	item423	192	m
7.11	Supplying & erecting 0.5 mm dia, copper jumper wire as per specification No. WG-TW	item424	7	m
7.12	Supplying, erecting & terminating co-axial copper cable low voltage grade tri-shielded RG-11 as per specification no. WG-TW	item425	150	m
7.13	Supplying & erecting co-axial copper cable low voltage grade tri-shielded RG-6 as per specification No. WG-TW	item426	0	m
7.14	Supplying, erecting & terminating 3 m HDMI cord low voltage grade minimum 4k compliant to be laid in provided conduits with male/female 19pin HDMI connectors complete.	item427	0	m
7.15	Supplying, erecting & commissioning MDF Box 20x20 pairs made from min. 1.5mm thick MS sheet as per specification no. WG-TA	item428	12	Each
7.16	Supplying, erecting & commissioning MDF Box 150x150 pairs made from min. 1.5mm thick MS sheet as per specification no. WG-TA	item429	2	Each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
7.17	Supply of Coral IRIS IVDX Cloud 3U size, based on ip@core technology, on board 2 Gigabit ports, Voice Mail, 128 party Conference bridge, configured for- • 01 256 Port Cabinet 3U Size – 1 No • 01 Redundant CPU and Power Supply • 160 Analog Extensions • 01 Operator Console as 6 line IP Phone • 128 SIP Licenses • 01 FCBC 48V, 10 Amp	item430	0	Each
7.18	Supplying, installing, testing & commissioning push button telephone instrument desk top unit as per specification complete	item431	0	Each
7.19	Supplying and installing cat-6 cable suitable for networking as per specification no. WG-COC/NC	item432	3594	m
7.2	Supplying and fixing 1 m 24 AWG multi stranded UTP patch cord with RJ-45 factory crimped connector of Cat 6 type, compliant ANSI/TIA-568.2-D standards in position as per specification no. WG-ELVC/PC	item433	0	m
7.21	Supplying, fixing, and configuring 24 ports + (4 SFP+) ports Managed Layer 2 switch of and web View/CLI, 6KV surge protection on ethernet port and console port for management as per specification complete.	item434	11	Each
7.22	8 Port Managed Layer 2 Switch	item435	1	Each
7.23	24 Port Managed Layer 3 Switch	item436	1	Each
7.24	Supplying, fixing, and configuring broadband ADSL router with all accessories, on provided rack as per specification No. WG-NWC/ADSL	item437	1	Each
7.25	Supplying and fixing tool-less IO (ethernet) flush/surface type in provided modular box as per specification no. WG-NAS/IO	item438	135	Each
7.26	Supplying and fixing 24 port patch panel with tool-less keystone jacks in provided U Rack complete as per specification no. WG-NAS/PP	item439	0	Each
7.27	Supplying and fixing Power Distribution Unit for networking rack comprises of 6/16A (6 Nos. sockets), 25 A modular MCB, appropriate rating fuse and indicator lamp, enclosed in black powder coated metal with necessary arrangement for fixing as per specification No. WG-NAS/RAK	item440	0	Each
7.28	Supplying and fixing 6U wall mount rack (Dimension-DxWxH – 500x600x367 mm) as per specification no. WG-NAS/RAK	item441	0	Each
7.29	Supplying and installing armoured single mode optical fibre cable with 6 fiber, core dia 50/125µm (OS1/OS2) 10/40 GBPS speed in provided underground HDPE pipe complete.	item442	280	m
7.3	Supplying and fixing 2 m Telephone patch cord of RJ11 type	item443	0	Each
7.31	Supplying and plugging 3 m fibre patch cord LC-SC MM (50) OM3 LSZH duplex complete as per specification no. WG-COC/FPC	item444	2	Each
7.32	Supplying, fixing, and configuring 10G Base -SR (SFP+) simplex MM transceiver erected in provided rack complete.	item445	2	Each
7.33	Supplying and fixing 12 ports light guide unloaded interconnect unit, rack mounted type, with adapter panel for termination of optical fibre cables in provided U rack complete as per specification no. WG-NAS/ LIU	item446	2	Each
7.34	Supplying and fixing SC/LC type multimode pigtailed (OM3) for LIU to terminate OFC in LIU as per specification No. WG-NAS/LIU2	item447	12	Each
8	Residential Building - LV SECTION- II (CCTV SYSTEM-ANALOGUE)			
8.01	Supply Installation, testing & commissioning of 2MP Analog HD Dome type Camera, 2.8 mm Fixed lens, IR-20mtr with power supply adaptor & required accessories.	item448	13	Each
8.02	Supply Installation, testing & commissioning of 2MP Analog HD Bullet type Camera, 2.8 mm Fixed lens, IR-20mtr with power supply adaptor & required accessories.	item449	0	Each
8.03	Supplying & erecting co-axial copper cable low voltage grade tri-shielded RG-6 as per specification No. WG-TW	item450	1080	m
8.04	Supplying, erecting & terminating 3 m HDMI cord low voltage grade minimum 4k compliant to be laid in provided conduits with male/female 19pin HDMI connectors complete.	item451	1	m

Sl. No.	Item Description	Item Code / Make	Quantity	Units
8.05	Supply Installation, testing & commissioning of 32 Channel, 1080P HD DVR (Digital Video Recorder), Auto Adaptive HDCVI/AHD/TVI/CVBS/IP signals, Max 128Mbps Incoming Bandwidth, H.264+ / H.264 dual-stream video compression, HDMI / VGA Simultaneous Video Output, Support 2 SATA HDD up to 16TB, 2 USB Ports, with required accessories.	item452	1	Each
8.06	Supplying & erecting of BNC Connector with required accessories.	item453	26	Each
8.07	Supply Installation, testing & commissioning of 12VDC/5A SMPS Power supply for Camera	item454	2	Each
8.08	Supplying, erecting, testing and commissioning of multistrand annealed bare copper conductor, PVC insulated 2C x 1.5 sqmm cable in provided trunking/conduit etc.	item455	195	m
8.09	Supplying & erecting 8 TB internal Surveillance HDD suitable for SATA Port of DVR/NVR, interface transfer rate 6 GB/S, maximum sustained transfer rate 210 MB/Sec to 213 MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 256, Load/Unload Cycle - 3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS. RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDD	item456	2	Each
8.1	Supplying & erecting 32" professional LED Monitor with 1920*1080 (Full HD) Display, suitable for 16 channel NVR and following features Brightness: minimum 250 Cd/m2 Contrast Ratio: minimum 1000:1 Viewing angle: 178/178 deg. Response time: maximum 8 ms Inputs: HDMI, VGA, BNC, USB, Audio In, Built-in speakers maximum 2 W, Suitable to operate on 100-240 V 50 Hz AC supply and 24/7 Duty Cycle duly erected on wall or table top with standard accessories like wall mount stand and wiring connections etc. complete as per specifications no. CCTV-MON	item457	1	Each
9	Residential Building - LV SECTION- III (CONVENTIONAL FIRE ALARM SYSTEM)			
9.01	Supplying, erecting testing and commissioning manual call point (Pill box) with break glass, push button (resettable type) in metal enclosure complete as per specification no. FF-FAAS/MCP	item458	21	Each
9.02	Supplying, erecting, testing and commissioning hooters having high (100dB @ 1m) and low (94dB @ 1m) volume setting, group addressing facility allowing multiple sounders to be activated with CRCA enclosure complete as per specification no. FF-FAAS/HTR	item459	21	Each
9.03	Supplying, installing, testing and commissioning FR, XLPE armoured cable 2 core 1.5 sq.mm. copper conductor complete erected on wall/ ceiling complete as per specification no. CB-LT/CU	item460	820	m
9.04	Supplying, installing, testing and commissioning 8 Zone, local signal conventional control panel (LCP) with standard accessories complete as per specification no. FF-FAAS/LCP	item461	1	Each
10	Residential Building - LV SECTION- IV (PUBLIC ADDRESS SYSTEM)			
10.01	Supplying Installing, testing and commissioning of PA Gooseneck Microphone with Base and frequency response 50-16000Hz, 150Ω to 200Ω impedance, sensitivity 3 to 5.5mV/PA with minimum length(excluding pedestal) of 585mm(23") long, flexible stem gooseneck condenser microphone & Heavy Duty Metal Base having on/off switch, LED indication and Suitable for 48V phantom supply as per specification no. PA-GM	item462	1	Each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
10.02	Supplying, erecting, testing & commissioning Mixer Amplifier 500W RMS Power with Built-in Digital Player with remote and having 7 Mic & 3 Aux Inputs with Box Speaker/Driver Unit selector switch to each zone , stereo/mono switch, frequency response 50-15000Hz, output regulation <2dB, serprate control for USB level. The unit shall have Preamplifier and Line Output for connecting to a Booster Amplifier and for recording the programme with Resettable circuit breaker for protection against overload and short circuit. The unit shall have speaker output range of 2Ω, 4Ω/(Low Impedence) and 70V & 100V/(High Impedence) & It can instant transfer to DC power(36V) if AC power fails. Signal to noise ratio between 60dB to 80dB. Complete as per specification no. PA-MA	item463	1	Each
10.03	Supplying,installing, testing & commissioning 2-Way flush mount Ceiling Speakers with input power 20W RMS power, with power taps on 20/10/5W, 100V & 70V line, frequency response 90-18000Hz, stylish metal mesh grill and plastic frame, operates on 100V line for excellent reproduction of both speech and music, wide frequency response and adjustable tweeter complete as per specification no. PA-FMCS	item464	29	Each
10.04	Supplying, erecting, testing and commissioning of multistrand annealed bare copper conductor, transparent PVC insulated 2C x 1.5 sqmm speaker wire in provided trunking/conduit etc.complete as per specification no. PA-TSPWR	item465	660	m
11	Residential Building - HVAC Part A	item466		
11.01	Residential section : Supplying, installing, testing and commissioning 5 Star split type variable speed Inverter technology room Air conditioning unit 1.5 TR capacity having minimum ISEER value of 5.4, suitable to operate on 250V, 50 cycles, A.C. supply having 1 no of air handling unit Hi wall (throw shall be upto 16m with wide coverage area) / floor mounting type complete with refrigerant R410A / R32 and copper condenser and evaporators at position with smart control facility using Wifi on Mobile/Tablet/PC. Daikin FTKF50UV	item467	121	Nos
12	Residential Building - HVAC Part B			
12.01	Supply and Installation of powder coated bracket stand (wall mounted / floor mounted / ceiling hung type) suitable for 1.5 TR split ac in appropriate manner with all required accessories complete as directed by Engineer in charge. includes new Copper piping with nitrile rubber Insulation, Drain piping in hard PVC with all fittings, supports and clamp, up to 3 mtr. lengths and extra copper piping and PVC drain pipe as per below mentioned items with all required accessories and drilling in walls complete. AC unit shall also be included copper flexible wire of 1.5 sqmm 4 core between IDU and ODU.	item468	121	Nos
12.02	Supply and Installation of copper piping (1/2"for suction and 1/4"discharge) of appropriate size in appropriate manner suitable for machines provided with all required accessories complete as directed by Engineer in charge.	item469	254	mtr
12.03	Supply and Installation hard PVC drain pipe of appropriate size in appropriate manner suitable for machines provided with all required accessories complete as directed by Engineer in charge. Pipe Dia.25mm with 6mm nitril rubberclass O insulation.	item470	254	mtr
12.04	Providing and drilling core cuts in beams and columns complete with finishing to wall as directed by Engineer in charge as per site conditions	item471	0	Inches
12.05	Supplying, installing, testing and commissioning of ONLY Ductable unit of capacity 11.0TR for the available at site fix speed "CARRIER" make ODU (Model No. 38LH-132GSC) with washable Pre filter, R410A gas and drier, expansion valve, etc. By making ODU good condition if required by contractor. (ODU's are available at site for inspection before quote submission)	item472	2	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
12.06	Supplying, installing, testing and commissioning of Cu piping (1 1/8"for suction and 5/8"discharge) for above mentioned Carrier make IDU and ODU of appropriate size with insulation and support system.	item473	12	mtr
12.07	Supplying, installing, testing and commissioning of AC Ducting made out of 24G G.S.S. Sheets of having coating of 180GSM, factory fabricated only. Installed with necessary supporting system.	item474	72	Sqmtr
12.08	Supplying, installing, testing and commissioning of Class 'O' Nitril rubber insualtion of 19mm thickness for ducting.	item475	72	Sqmtr
12.09	Supplying, installing, testing and commissioning of acoustic insulation for air ducts with 25mm thick, 48 kg/cu.m fiber glass faced with RP tissue and covered with 26 SWG perforated aluminium sheets complete.	item476	40	Sqmtr
12.1	Supplying, installing, testing and commissioning of Aluminium powder coated grilles of height 200mm, with 0 deg. angle all 4 side flanges.	item477	32	Rmt
12.11	Supplying, installing, testing and commissioning of Flexible canvass connection of 11.0 TR IDU.	item478	2	Nos
12.12	Supply and Installation of GI VCD for Fresh air. Size - 200x200mm.	item479	2	Nos
12.13	Supply and Installation of ODU stand (floor mounted type) suitable for 11.0 TR ductable ODU made of MS Channel 50x50x6mm HDGI coated in appropriate manner with all required accessories, (ODU size - 12x600mm) (1stand = 22Kg)	item480	2	Nos
13	Residential Building- HVAC Part C - Comprehensive mentainance			
13.01	From second year to fifth year (4 years)	item481	121	Nos
13.02	From Sixth year to Tenth year (5 years)	item482	121	Nos
14	Residential Building - Fire Fighting			
14.01	Supplying, installation, testing and commissioning of booster fire pump [BP] suitable for water discharge of 900 LPM at 35 m head driven by electric motor 415 volts, 3 phase 50 Hz, AC supply of 7.5 kW or of suitable kW capacity for manual/automatic operation and consisting of following :(a) Horizontal/vertical type, single/multi stage, centrifugal casing pump of cast iron body & bronze/CI impeller with stainless steel shaft (SS410 grade), mechanical seal conforming to IS 1520.(b) Squirrel cage induction motor, TEFC, synchronous speed 3000 RPM, suitable for operation on with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.(c) M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required.(d)Erected on provided suitable size cement concrete foundation duly plastered with anti vibration pads with perfect aligning, proper levelling complete pump set with accessories duly painted with two coats of synthetic enamel paint of fire red colour over a coat of primer (ISC code 536 as per IS 2932 of 2003) complete, as per specification no. FF-MFP/BP	item483	1.00	Each
14.02	for 5.5/ 7.5 kW centrifugal type booster pump 1no (1working), add Rs.....	item484	1.00	Each
14.03	Supplying & erecting D.O.L Starter suitable for 415 V, 3 phase 50 cycles with no volt coil and overload element with necessary materials and connected to supply up to 7.5 H.P.	item485	1.00	Each
14.04	Supplying and erecting G.I. pipe 'C' class ERW 100 mm dia with necessary fittings complete as per specification no. FF-PP	item486	135.00	m
14.05	Supplying and erecting 100 mm dia Cast Iron end line strainer of Y-type flanged end pattern, PN16 pressure rating, SS screen, end connection with Flanged / Screwed / Socket Weld / Butt Weld End etc with standard OAR (open area Ratio) for positive suction complete as per specification no. FF-VL/ELS	item487	1.00	Each
14.06	Supplying and erecting 100 mm dia. cast iron double flange sluice valve complete with PN16 pressure rating, as per specification no. FF-VL/SV	item488	1.00	Each
14.07	Supplying and erecting 100 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF-VL/BFV	item489	18.00	Each
14.08	Supplying and erecting 100 mm dia cast iron double flange NRV complete with PN16 pressure rating, as per specification no. FF-VL/NRV	item490	1.00	Each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
14.09	Supplying and erecting 25 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV	item491	18.00	Each
14.1	Supplying and erecting stainless steel single outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV	item492	16.00	Each
14.11	Supplying and installing wall mounting swinging hose reel drum fitted with 19 mm dia. 30m long high pressure polypropylene (Polyhose) along with necessary accessories complete as per specification no. FF-FFA/HV	item493	16.00	Each
14.12	Supplying and erecting 63mm dia, reinforced rubber lined (R.R.L.) hose pipe, 15m in length, fitted with necessary accessories complete as per specification no. FF-FFA/RRL	item494	32.00	Each
14.13	Supplying and erecting stainless steel branch pipe 63 mm dia fitted with 20 mm dia detachable hexagonal nozzle complete as per specifications no. FF-FFA/NZ	item495	16.00	Each
14.14	Supplying and erecting fire brigade header (Siamese connection) of 150 mm dia, for supplying water in fire tank complete as per specification no. FF-FA/FMC	item496	1.00	Each
14.15	Supplying and erecting 100 mm dia. pressure gauge , 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm dia. pad cock valve, erected with provided G.I. pipe, elbow etc. complete as per specification no. FF-FFA/PG	item497	1.00	Each
14.16	Supplying and erecting 12/15 mm dia pressure switch with provided isolation valve, G.I. nipple, elbow, etc complete as per specification no. FF-FFA/PS	item498	2.00	Each
14.17	Supplying and erecting M.S./CRCA cabinet for housing Fire Brigade / SIEMESE connections (size 1250 x 400 x 300 mm.) made from 16 SWG sheet and angle iron 25 mm. x 25 mm. x 4 mm. having front doors with viewing glass (8" x 6") and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted in post box red colour(Code 538 of IS 5)	item499	16.00	Each
14.18	Supplying, erecting, testing and commissioning vane type water flow detector 100 mm dia. with 1) Visual switch activation 2) Rugged switch assembly 3) Heavy duty aluminium pipe saddles 4)Durable metal enclosure 5) Steel U bolts for secure mounting 6) Two SPDT (Single pole double track) synchronised switches 7) serviceable without draining pipes.	item500	1.00	Each
14.19	Supplying and erecting fire resistant mortar (20 kg) with fire resistance class S90 as per National Electrical Code (NEC) SP30-2011 suitable to seal the openings of all kinds of cables, pipes and cable support system in steel, aluminium and plastic profiles (except hollow core conductors). The residual openings shall be closed with filler, as per specification no FF-FRM.	item501	1.00	Job
14.2	Supplying & erecting Carbon Dioxide (CO2) fire extinguisher of 4.5 kg. capacity cartridge type conform to IS 2878 /15683 complete erected with necessary clamp made from 50 x 6 mm. M. S. flat with nut & bolts routed in wall complete.	item502	28.00	Each
14.21	Supplying, installing, testing, and commissioning of portable fire extinguishers of ABC dry powder stored pressure type fire extinguishers of 6 Kgs.capacity Complete with standard discharge valve with tube, CI bracket for wall mounting etc. complete as per confirming to IS : 15683 complete all the work up to the satisfaction of the Engineer in charge.	item503	34.00	Each
14.22	Providing and fixing in position statutory Signage's made out of 3mm thick opaque PVC foam board, machine cut, non reflective, auto glow (type & Make), with silicon adhesive for safe evacuation of occupants in case of emergency. Sign indicators should be provided at prominent places as per Fire Provisional NOC (As per - IS-9457, IS-12349, IS-12407). complete all the work up to the satisfaction of the Engineer in charge.	item504	40.00	Sq in
14.23	Providing, laying, testing & commissioning of 100mm dia resilient rubber neoprene lined single arch Vibration eliminators (Expansion bellows) suitable for Design Pressure 16 kg/sq cm and test pressure 24 kg/sq cm. complete all the work up to the satisfaction of the Engineer in charge.	item505	1.00	Each
14.24	Providing Floor mounting stand for keeping 4 Nos. of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of silver paint complete.	item506	2.00	Set
15	Residential Building - Internal Plumbing SANITARY & CP FITTINGS			

Sl. No.	Item Description	Item Code / Make	Quantity	Units
15.01	Providing and fixing white european type wall-hung, Size 380mm x 650mm x 730mm with wall hung coupled flush tank with float operation auto filling, wall plate/push buttons from inside to operate the flush tank, rigid flush water pipe having flow rate upto 6.0 Litr/Minute of Jaquar or equivalent make including PVC soil pipe, vent pipe upto outside face of wall, 100mm dia PVC plug bend inlet pipe all fittings, MS PC chair bracket with SS rack bolts cutting & making good walls, floors etc as directed by Engineer incharge .(Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.)	item507	127.00	No
15.02	Providing and fixing White glazed with bottle trap earthenware Wash Hand Basin of 55x40 cm size including cold water pillar taps, brackets, rubber plugs and brass chain, angular stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, making good the damaged surface, testing etc. complete.	item508	142.00	No
15.03	Providing and fixing white glazed urinal with Pressmatic auto closing valve having flow rate up to 4.0 Litr/Minute of Jaquar/Cera/Hindware /Perryware or equivalent make with P.V.C. waste pipe with fitting arrangement etc.complete as directed by Engineer in charge.(Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.)	item509	9.00	No
15.04	Providing and fixing Hand shower (health faucet) with 8mm dia. 1m long flexible tube having wall hook with approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.(SSR 21-22)	item510	127.00	No
15.05	Providing and fixing stainless steel sink of size 600 x 510 x200 mm including coupling, outlet pipe, elbow and other necessary fitting, finishing etc. complete.	item511	2.00	No
15.06	Providing and fixing C.P. sink cock with raised J" shaped swinging casted spout of approved make including necessary sockets/ union nut etc. complete."	item512	2.00	No
15.07	Providing and fixing C.P. 2 Way BIB cock with wall flange of approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	item513	142.00	No
15.08	Providing and fixing C.P. BIB cock with wall flange of approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge. (For wash machine & Utility).	item514	1.00	No
15.09	Providing and fixing C.P. Angular stop clock with wall flange of approved make continental including necessary sockets/union nut etc. complete.	item515	140.00	No
15.1	Providing and Fixing toilet set for differently Aabled persons consist of Floor Mounted white vitreous china water Closet including 6 litre capacity white vitreous china flushing Cistern with raised soft-push button, white vitreous china wash basin of size 46 x 36 cm and one no SS 304 hinged rail 76 cms & three no SS 304 of (Grab Bar) 60 cms all including cutting and making good the walls and floors wherever required ,seat cover, cistern & wash basin fittings,nuts, bolts and gasket etc complete as per the direction of Engineer-In-charge.	item516	1.00	No
15.11	Providing and fixing diverter with overhead shower, showerarm, spout, handshower with wallbracket having flow rate upto 12liters/minutes of Jaquar/ Cera/ Hindware/ Perryware or equivalent make including all necessary pipes, fittings etc. complete as directedm by Engineer InCharge. (Makeshall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.)	item517	116.00	No
15.12	Providing and fixing of TOWEL RACK 600MM LONG WITH LOWER HANGERS STAINLESS STEEL, etc complete.	item518	116.00	No
15.13	Providing and fixing of C.P.Soap dish hooker jaquar make continental, etc complete.	item519	116.00	No
15.14	Providing and fixing of C.P.Toilet paper holder jaquar make continental, etc complete.	item520	116.00	No
15.15	Providing and fixing of coat holder, etc complete.	item521	232.00	No
15.16	Providing and fixing of Towel ring square, etc complete.	item522	116.00	No
15.17	Providing and fixing of white acrylic 1200x1200 shower tray with bottom outletcustomised for typical and m mirror shower area which shall be non corrosive, anti sleepary, piched towards corner drain point with leakproof joints and leveling, finished along with side wall/tiles as per approved mock up sample by client	item523	116.00	No
15.18	Providing and fixing cloth liner retractable with all fittings etc complete.	item524	116.00	No
15.19	Providing and fixing sliding glass door (JSE-CHR-OPTSDR1200SX Optima Sliding Door 8mm RT./LFT 1200X2000mm) with all necessary fittings etc complete	item525	114.00	No
16	Residential Building - Internal Plumbing INTERNAL DRAINAGE (SOIL, WASTE & VENT)			

Sl. No.	Item Description	Item Code / Make	Quantity	Units
16.01	Providing, laying and fixing P.V.C. pipe of 40mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trenchfilling etc. complete. Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	item526	281.60	Rmt
16.02	Providing, laying and fixing P.V.C. pipe of 75mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trenchfilling etc. complete. Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	item527	621.50	Rmt
16.03	Providing, laying and fixing P.V.C. pipe of 110mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trenchfilling etc. complete. Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	item528	374.00	Rmt
16.04	Supply, installation, testing & commissioning of PVC SWR (Grade B) pipe as per IS 13592, of approved make vertically in shaft, necessary cutting to the required length including short pieces, assorted fittings such as plain tee and bend single/ double Y, offsets etc. as per IS 14735, jointing with solvent cement & rubber rings, clamping on wall using PVC pipe clips and giving water-tightness test for the pipes along with making holes in walls/floor grooving and redoing the same and brick support etc. complete as per directions of engineer-in-charge. 110mm dia (Grade B)	item529	1292.50	Rmt
16.05	Supply, installation, testing & commissioning of PVC SWR (Grade B) Soil or Waste pipe as per IS 13592 for Pipe Diversion with necessary cutting to be done to the required length including short pieces, assorted fittings such as plug/plain tee, bend, single/double Y, offsets etc. as per IS 14735, jointing with solvent cement & rubber rings, clamping on wall using PVC pipe clips and giving water-tightness test for the pipes along with making holes in walls/floor grooving and redoing the same and brick support etc. complete as per directions of engineer-in-charge. (Pipe Diversion @ Ground & Basement Ceiling) 110mm dia (Grade B)	item530	374.00	Rmt
16.06	Supply, installation, testing & commissioning of PVC SWR (Grade B) Soil or Waste pipe as per IS 13592 for Pipe Diversion with necessary cutting to be done to the required length including short pieces, assorted fittings such as plug/plain tee, bend, single/double Y, offsets etc. as per IS 14735, jointing with solvent cement & rubber rings, clamping on wall using PVC pipe clips and giving water-tightness test for the pipes along with making holes in walls/floor grooving and redoing the same and brick support etc. complete as per directions of engineer-in-charge. (Pipe Diversion @ Ground & Basement Ceiling) 160mm dia (Grade B)	item531	132.00	Rmt
16.07	Supply, installation, testing & commissioning of 75mm PVC Nahani Trap as per IS 14735, with material and labour etc. complete as per directions of engineer-in-charge.	item532	164.00	Nos
16.08	Supply, installation, testing & commissioning of PVC Multi floor Trap as per IS 14735, with material and labour etc. complete as per directions of engineer-in-charge.	item533	164.00	Nos
17	Residential Building - Internal Plumbing INTERNAL STORM WATER			
17.01	Providing and fixing P.V.C. Rain water pipes of 160mm outer diameter and having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and One Number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer	item534	220.00	Rmt
17.02	Providing and fixing P.V.C. Rain water pipes of 110mm outer diameter and having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and One Number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer	item535	1.00	Rmt

Sl. No.	Item Description	Item Code / Make	Quantity	Units
17.03	Providing and fixing C.I. vertical jalli of the specified size at the collection point of RWP on terrace to be with material and labour including provision of roof flashing of 6mm thickness as per details etc. complete as per directions of engineer-in-charge. 150 mm X 150 mm	item536	1.00	No
17.04	Providing and fixing in position UPVC ultra violetstabilized 110mm outer diameter cowl dome confirming tol.S.-4985 including making joints with solvent cement etc.complete	item537	60.00	No
18	Residential Building - Internal Plumbing INTERNAL WATER SUPPLY			
18.01	Supply, installation, testing & commissioning of exposed on wall faces, floor, shaft & Terrace following sizes of Lead Free Solvent Weld Schedule 40 CPVC Pipes conforming to ASTM D 1785 for water supply including provision of all fittings such as elbows, Tees, unions, reducers etc. as per ASTM D 2467, cutting of pipes, jointing with solvent cement joints as per manufacturers specifications, hydraulic testing, including holes in walls, slabs etc. provision of GI Brackets & Clamps and making good the damages by bringing them to good original condition, etc. complete as directed by the engineer-in-charge. 65 mm dia	item538	165.00	Rmt
18.02	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 50 mm dia	item539	0.00	Rmt
18.03	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 40 mm dia	item540	160.60	Rmt
18.04	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 32 mm dia	item541	206.80	Rmt
18.05	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 25 mm dia	item542	201.30	Rmt
18.06	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 20 mm dia	item543	502.70	Rmt
18.07	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 15 mm dia	item544	1974.50	Rmt
18.08	Providing and fixing of CPVC Ball Stop cocks. 50 mm dia	item545	1.00	Nos
18.09	Providing and fixing of CPVC Ball Stop cocks. 40 mm dia	item546	12.00	Nos
18.1	Providing and fixing of CPVC Ball Stop cocks. 32 mm dia	item547	1.00	Nos
18.11	Providing and fixing of CPVC Ball Stop cocks. 25 mm dia	item548	10.00	Nos
18.12	Providing and fixing of CPVC Ball Stop cocks. 20 mm dia	item549	0.00	Nos
18.13	Providing and fixing of CPVC Ball Stop cocks. 15 mm dia	item550	300.00	Nos
18.14	Supply, installation, testing & commissioning of Wafer Type Butterfly Valves with Body of Cast Iron, Disc of Cast Iron/Stainless Steel and body lining of EPDM / Nitrile Rubber including jointing with Galvanised Iron pipes including hydraulic testing (Operating pressure not less than 16 Kg/Sq.cm) etc. complete as directed by the engineer-in-charge. 65 mm dia	item551	1.00	Nos
18.15	Providing & fixing CI 'Y' Strainer (screwed/ flanged) with stainless steel fine wire mesh perforated sheet basket with necessary flange/ unions nuts, bolts and washers complete as required (on pump suction). 50 mm dia	item552	1.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
18.16	Supplying and erecting 20/25mm dia gun metal air release cock, with necessary G.I. coupling to be fitted on top of air vessel or on wet riser complete as per specification no. FF-FFA/ARV	item553	24.00	Nos
19	Residential Building - Internal Plumbing OHT SLEEVES & MANHOLES			
19.01	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 150mm	item554	2.00	Nos
19.02	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on both end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 100mm	item555	2.00	Nos
19.03	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on both end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 50mm	item556	4.00	Nos
19.04	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on both end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 32mm	item557	4.00	Nos
19.05	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 100mm	item558	1.00	Nos
19.06	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 65mm	item559	2.00	Nos
19.07	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 50mm	item560	4.00	Nos
19.08	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 32mm	item561	1.00	Nos
19.09	Supply & installation of Ductile Iron Manhole Covers with frame,& openable hinge of 600mm Dia. (Light Duty) for UGR including all necessary supports, grouting of the frame in RCC, making arrangements for recessed locking of the Manhole cover etc. complete as directed by engineer-in-charge. (MATREIAL SSR + LABOUR SSR)	item562	4.00	Nos
19.1	Providing and fixing 40 mm. dia Ball cock medium type with PVC float including sockets and necessary fittings and tested as per municipal requirements etc. complete. Note: Contractor to note that the suction header is required to have inlet connection from the Puddle Flange @ water tanks and to the pump suction. Provision of delivery header is required to have outlet connection from the pumps. Suitable outlet flanges from the delivery mainfold / header shall be provided as required.	item563	2.00	Nos
20	Residential Building - Internal Plumbing PUMPS AND ANCIALLARY ITEMS			

Sl. No.	Item Description	Item Code / Make	Quantity	Units
20.01	Installation, Testing & Commissioning of Stainless Steel Vertical In-line Pump Sets consisting of 1 Working & 1 Standby pump having Built-in Overload Protection, Motor Housing, Suction Plate, Bottom Screen & all Screws to be of stainless steel, Motor Cover & Pump Housing to be of corrosion proof Cast Iron, Pump to have Stainless Steel Impeller & Double Mechanical seals in oil chambers, including necessary supports/ foundations, Main Suction Header & Delivery Header along with 'Y' Strainers, Isolation and N.R valve, Pressure Guages & Pressure Switches, all necessary fittings, and Cable from Panels to the individual pumps etc including Electrical Control Panel with 1 VFD for Operation & Control of pump-sets including provision of Pressure Vessel. complete as per directions of engineer in charge (AT TERRACE) 1 pump to run on VFD and the VFD shall be transferrable to any of the pumps Contractor to submit the GA drawing along with the Control layout to the Consultants before manufacturing of the same. Domestic Pumps (Pump Discharge = 3 LPS, Head = 15 m (1 W + 1 S) Contractor to submit the GA drawing along with the Control layout to the Consultants before manufacturing of the same.	item564	1.00	Nos
21	Residential Building - Internal Plumbing SOLAR HOT WATER SYSTEM			
21.01	Supplying and erecting iron work, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority. calculation attached	item565	1550.00	kg
21.02	Making cement concrete foundation in 1:3:6 cement concrete, (20 to 25) mm. stone metal duly plastered with necessary curing for complete. (pole muffing or any other purpose). foundation size for structure 0.3 x 0.3 x 15 x 4 nos = 0.054 for 1 system for 51 nos 500LPM x 0.054 = 27.54 + for for tank and heat pump tank require approx 15.2 total = 42.74 = 43 cum, 43 x 3 = 129	item566	53.00	cum
21.03	Supplying, installing, testing and commissioning of ETC solar water heating system without heat exchanger type of 500 LPD capacity with SS water tank of 0.5 mm thickness conforming to IS1239 Part-I :2004 complete as per specification no. ESD-SHWS-ETC (50 no x 500 = 25000)	item567	50.00	Each
21.04	Supplying and erecting 20/25 mm (ID/OD) Chlorinated polyvinyl chloride pipe (CPVC), thickness 2.6 mm conforming to IS 15778 (CTS Series) with necessary CPVC fittings and solvent cement for Solar Water Heater System as per specification No. ESD-HWP/CPVC	item568	150.00	m
21.05	Supplying and erecting 32/40 mm (ID/OD) Chlorinated polyvinyl chloride pipe (CPVC), thickness 3.8 mm conforming to IS 15778 (CTS Series) with necessary CPVC fittings and solvent cement for Solar Water Heater System as per specification No. ESD-HWP/CPVC	item569	150.00	m
21.06	Supplying and erecting elastomeric nitrile rubber / foam tube type sleeves for coating and insulating on provided PC / copper pipes having 9 mm thickness and inner diameter / sizes 22 mm for solar water heater/AC system.	item570	150.00	m
21.07	Supplying and erecting elastomeric nitrile rubber / foam tube type sleeves for coating and insulating on provided PC / copper pipes having 9 mm thickness and inner diameter / sizes 42 mm for solar water heater/AC system.	item571	150.00	m
21.08	Supplying and erecting ISI mark GI pipe 40 mm. dia. 'B' class at position with accessories complete as per specification no. CW-PLB/GP.	item572	120.00	m
21.09	Supplying and erecting non return valve 40 mm dia in position made of gun metal complete.	item573	54.00	Each
21.1	Supplying and erecting 40 mm. dia. gun metal sluice valve at position with necessary materials complete.	item574	54.00	Each
21.11	Supplying, installing, testing and commissioning of Monoblock Heat pump, having dimension: 995 x 785 x 1700 (mm), Input power: 2.22 kW, 400 V, 3 Ph, 50 Hz, Output power: 8 kW having hot water temperature range 35°C to 75°C and ambient temperature range for max. efficiency 7°C to 43°C, with glass lining hot water tank of 455 ltr. and min. 220 Kg at rated pressure 10 bar with two emergency heating elements operated on three operational mode: Efficiency mode, Hybrid turbo mode and Standard mode with Adaptive Energy System (AES), LED display with necessary accessories complete with 5 years ON-SITE warranty.	item575	2.00	each

Sl. No.	Item Description	Item Code / Make	Quantity	Units
21.12	Supplying and erecting fully automatic line voltage stabilizer buck and boost type for operation on input voltage 160-270 V and output voltage 200-250V rated for 5kVA maximum load and with voltmeter, selector switch, 6A/16A flush type 3 pin socket for output and with 3 core copper flexible cord and 3 pin 6/16A plug top with overload & short circuit protection complete .	item576	2.00	Each
21.13	Supplying & erecting automatic control panel for 3 Phase , 415 volt, A.C, Submersible/centrifugal pump set up to 7.5 HP consisting of DOL starter having relay range 9-14 AMP,S.P.P., Combined ammeter/ voltmeter, phase indicating lamp enclosed in CRCA powder coated Vibration proof enclosure with IP 54 protection. Control Panel should offer single phasing, phase reversal, phase imbalance etc .	item577	2.00	Each
21.14	Supplying, installation and testing and commissioning of storage type Mild Steel mixing water tank of capacity 3000 ltrs. tested to a pressure of 8 kg/cm2, insulated with 50 mm thick rock wool with wire mesh around and clad with 26 SWG aluminium of dish end type with working pressure of 6 kg/cm2, fabricated with 6 mm thick MS plate and dished ends with 8 mm thick plates complete with man hole cover, inner side of the tank coated with FRP coating of 3 mm thickness withstand temperature of 90°C provided with collars of 2" BSP for provision to install 6 numbers of electrical heating coils if required with thermal sensors for automatic operation and integrated into the electrical circuits of the circulation pumps and the heat pump with safety valve drain, inlet and outlet nozzle, pressure gauge with all necessary accessories complete.	item578	8.00	Each
21.15	Providing and fixing high-density polyethylene (HDPE) container one piece moulded triple layer water tank made out of high density polyethylene and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow pipe inclusive of all tanks capacity up to 20000 litres.	item579	16000.00	ltr
21.16	Supplying and erecting chromium plated heavy duty brass stop cock for inlet pipe of water heater (15mm. dia).	item580	54.00	Each
21.17	Supply Installation testing commissioning of hot water reverse return system with 2 nos. of 25mm dia solenoid valves, tempertaure based operated inline circulation pump, control and power wiring, starter/control panel etc	item581	1.00	Each
22	B)Academic Building - Building Work			
22.01	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150mm in thickness. (Item No. 2.09)	item582	2353.99	Square Metre
22.02	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift upto 1.5m.) By Mechanical Means (Item No. 21.02)	item583	2530.539	Cubic Metre
22.03	Excavation for foundation in hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift from 1.5 to 3.0m) By Manual Means (Item No. 21.07)	item584	5355.327	Cubic Metre
22.04	Excavation for foundation in Hard rock by chiselling, wedging, line drilling, etc. including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the building area stacking as directed, dewatering and back filling with available earth/murum watering, ramming etc. complete.(Lift upto 1.5 m). By Mechanical Means (Item No. 21.20)	item585	1883.192	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.05	Providing preconstructional antitermite treatment as per I.S. 6313(Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper. (Item No. 21.22, Departmental)	item586	2675.29	Square Metre
22.06	Providing preconstructional antitermite treatment as per I.S. 6313(Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per square metre of surface area covering ten years guarantee on bond paper. (Item No. 21.24)	item587	2128.915	Square Metre
22.07	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed	item588	513.529	Cubic Metre
22.08	Supplying, Drilling/Cleaning hole and injecting chemical. Application to be designed separately for Rebars as Simply Supported, Moment or Splice Connection as per EC2/TR 023 or relevant tested and accepted rebar guidelines. The chemical should have ETA approval for seismic rebar as a minimum qualifying criterion. Drilling hole with double flute type drill bits or hollow drill bits to the required depth by rotary hammer drill, cleaning with brush and jet of clean air, filling resin and hardener using serrated nozzle to eliminate mixing error with standard HDE A22 battery dispenser along with piston plug. The installation and the setting instructions should be strictly followed as per the manufacturer's recommendations. The adequate diameter and embedment of rebars to be decided as per PROFIS Rebar Software & the report to be submitted to the project manager/design engineer for approval. Scanning before	item589	50.00	Number
22.09	Supplying, drilling/cleaning hole and fixing of Torque Controlled Expansion Anchor HST3, of sizes ranging from M8 to M24. The Anchor should be third party tested, possess ETA approval and should be pre-assembled with a galvanized bolt as per EN ISO 4042: 1999, ingenious expansion sleeve M10 and M16(galvanized) and M8, M12, M20, M24-Stainless Steel(EN ISO 4042: 1999), a nut of Strength Class 8(EN ISO 20898-2:2012) and a galvanized washer(EN ISO 4042:1999). The anchor should be approved for use in Cracked Concrete. Anchor must be tested and approved as per Seismic C1 and C2 Category of TR045. ETA to have Fire Resistance values for up to 120 mins as per EOTA TR 020 and FM Approval(use in Pipe Hangers). Anchor shall be fixed at right embedment depth as per embedment mark and activated using AT Tool Module to ensure adequate torque as per manufacture's torque tolerance published in ETA and same shall be documented and submitted to Project Manager at the time of inspection. Design of Anchor should be done as per ETAG 001 Annex C and TR045 using PROFIS Software as per actual load data and site conditions as provided by structural consultant and the report to be submitted to the project manager and design engineer for approval. Scanning before drilling to be done with PS Scanning tool to avoid rebar hits. stud anchor HST3 M24x200 30, 500 to 1500 mm depth (Item No. 53.24)	item590	10.00	Number
22.1	Providing and fixing 25mm diameter steel anchor dowel in hard rock including drilling hole of 32mm diameter up to 0.75 to 1.5 mtrs depth, placing the dowel in position and effectively grouting the hole withCM 1:1 proportion etc. complete. (Item No. 12.13)	item591	149.00	Number

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.11	Providing and laying Cast in situ/Exposed Ready Mix form finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc.	item592	1235.008	Cubic Metre
22.12	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed	item593	193.30	Cubic Metre
22.13	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed	item594	87.50	Cubic Metre
22.14	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed	item595	3.50	Cubic Metre
22.15	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Foundations / Raft	item596	150.00	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.16	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Columns: Rectangular / Square / Segmental	item597	148.00	Square Metre
22.17	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Columns: Circular / Elliptical / Semi-Curved (Rate only)	item598	135.00	Square Metre
22.18	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Beams: Strainght / Curved / Segmental	item599	139.00	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.19	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Coffe Beams: Strainght / Curved / Segmental(Rate only)	item600	135.00	Square Metre
22.2	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Slabs: (flat, sloping, cantilevered or any other position) and Staircases	item601	147.00	Square Metre
22.21	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] Coffe Slab: (flat, sloping, cantilevered or any other position) and Staircases) (Rate only)	item602	120.00	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.22	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] RCC Pardi and Shear Walls: Strainght / Curved / Segmental	item603	145.00	Square Metre
22.23	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] RELIEF FORMWORK (Rate only)	item604	123.00	Square Metre
22.24	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] GROOVES IN CONCRETE SURFACES (as per pattern) (trapizoidal section) (using teakwood patti) 25 mm wide. (Rate only)	item605	110.00	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.25	FORM FINISHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant, design as per IS 14687 or latest, at any level including using shuttering oil as per structural consultants specifications, strutting, propping, removing the shuttering after stipulated period and re-propping. Cost to include designing of proper form work and staging system to suit the requirements,Submission of design calculations and shop drawings for approval,sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/tripple heights and profiles.[Measurement will be paid for the area of shuttering coming in contact with concrete only] GROOVES IN CONCRETE SURFACES (as per pattern) (trapizoidal section) (using teakwood patti) 20 mm wide. (Rate only)	item606	115.00	Square Metre
22.26	MURALS: Providing, fabricating, erecting and fixing in position shuttering formwork as per pattern and sizing using specializd material (details to be submitted by the contractor while quoting), giving fair finished concrete surfaces, making leak proof joints, using required couplers, tie bolts, M.S. Ties, concrete Spacer, providing openings/ cut-outs/ pockets, etc.; using required deshuttering emulsion which will not stain the concrete, etc. complete at all height, depths, lead & lift and required any height staging and supporting sturdy and braced. Also include removing & dismantling the aforesaid assembly after specified or as approved period from the day of casting of concrete.(Measurement: Surface area around the mural to the nearest square or rectangle or circle) (Proposed Material: Aluminium Cast/ Teak Wood/ MDF/ Fibreglass) Rate to include smooth finish and rendering if required, etc. all complete to the satisfaction of PM. On Wall (rate only)	item607	10.00	Square Metre
22.27	MURALS: Providing, fabricating, erecting and fixing in position shuttering formwork as per pattern and sizing using specializd material (details to be submitted by the contractor while quoting), giving fair finished concrete surfaces, making leak proof joints, using required couplers, tie bolts, M.S. Ties, concrete Spacer, providing openings/ cut-outs/ pockets, etc.; using required deshuttering emulsion which will not stain the concrete, etc. complete at all height, depths, lead & lift and required any height staging and supporting sturdy and braced. Also include removing & dismantling the aforesaid assembly after specified or as approved period from the day of casting of concrete.(Measurement: Surface area around the mural to the nearest square or rectangle or circle) (Proposed Material: Aluminium Cast/ Teak Wood/ MDF/ Fibreglass) Rate to include smooth finish and rendering if required, etc. all complete to the satisfaction of PM. On Ceiling (rate only)	item608	10.00	Square Metre
22.28	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (As per SSR consumption of M30 grade of concrete has only change in extra 25kg of cement rest all is same, so adding 0.5 bag of cement in M-25 RCC pardi concrete) (Item No. 26.19)	item609	902.485	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.29	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (As per SSR consumption of M30 grade of concrete has only change in extra 25kg of cement rest all is same, so adding 0.5 bag of cement in M-25 RCC pardi concrete) (Item No. 26.19, First Floor)	item610	165.64	Cubic Metre
22.3	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (As per SSR consumption of M30 grade of concrete has only change in extra 25kg of cement rest all is same, so adding 0.5 bag of cement in M-25 RCC pardi concrete) (Item No. 26.19, Second Floor)	item611	25.00	Cubic Metre
22.31	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix	item612	554.96	Cubic Metre
22.32	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade)(Item No. 25.54, First Floor)	item613	344.66	Cubic Metre
22.33	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.54,Second Floor)	item614	210.11	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.34	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.54, Third Floor)	item615	27.55	Cubic Metre
22.35	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. Layers including watering and compacting etc. complete. (Item No. 21.36)	item616	110.00	Cubic Metre
22.36	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15cm to 20cm including watering and compaction etc. complete. (Item No. 21.37)	item617	55.00	Cubic Metre
22.37	Providing dry/trap/granite/quartzite/gneiss rubble stone soling 15cm to 20cm thick including hand packing and compacting etc. complete. (Item No. 21.38)	item618	355.463	Cubic Metre
22.38	Providing and laying Cast in situ/Exposed Ready Mix Form Finish C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade) (Item No. 26.62)	item619	144.809	Cubic Metre
22.39	Providing and laying Cast in situ/Exposed Ready Mix Form Finish C.C. M-30 of trap metal for RCC rectangular grid beam with slab as per detailed design and drawing or as directed including dewatering if necessary, steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them to form surface with C.M. 1:3 of sufficient minimum thickness to give smooth and even surface or roughening them if special finish is to be provided and curing complete(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant(pan mixer). With fine aggregate(Crushed sand VSI Grade) (Item No. 26.62, First Floor)	item620	144.809	Cubic Metre
22.4	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed	item621	124.007	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.41	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.74, First Floor)	item622	124.007	Cubic Metre
22.42	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed	item623	122.641	Cubic Metre
22.43	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (As per SSR consumption of M30	item624	57.30	Cubic Metre
22.44	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.C.C. Waist slab, and steps of staircases as per detailed design and drawings or as directed including steel centering, plywood/steel formwork, steel props, laying/pumping, compaction, finishing uneven and honeycombed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement, including cover block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (As per SSR consumption of M30	item625	28.65	Cubic Metre
22.45	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-20 of trap/granite/quartzite/gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.23)	item626	19.706	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.46	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-20 of trap/granite/quartzite/gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.23, First Floor)	item627	9.853	Cubic Metre
22.47	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-20 of trap/granite/quartzite/gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.23, Second Floor)	item628	3.286	Cubic Metre
22.48	Providing and fixing in position TMT-FE-500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. (Item No.	item629	401.769	Metric Tonne
22.49	Providing and fixing 20 to 25mm thick rough shahabad box type waterproofing treatment to vertical outside faces of Reinforced Cement concrete walls of basement or underground floor including filling the gap of 25mm between rough shahabad and R.C.C. walls with cement grout mixed with water proofing liquid Algae proof or other alike with one tile lift method, brushing the joints horizontally with cement slurry mixed with water proofing liquid for width 30 to 35mm and sloping coping over topmost tile with cement mortar 1:3, butting the bottom most with Cement concrete 1:2:4 mixed with water proofing liquid, curing, with 7 years guarantee on court fee stamp of Rs.100/-with ponding test etc complete.(excluding Cement concrete 1:3:6 base concrete) (Item No. 31.13)	item630	959.70	Square Metre
22.5	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/in plinth external walls including bailing out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. (Item No. 27.01)	item631	4.439	Cubic Metre
22.51	Labour rate for coursed rubble masonry second sort of trap/granite/quartzite/gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually, striking joints inside and raking out joints from outside and watering etc.complete (Item No. 28.09)	item632	5.85	Cubic Metre
22.52	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ² of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering, curing and scaffolding etc. complete. (Item No. 29.03)	item633	108.546	Cubic Metre
22.53	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per I.S. 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ² of size(300mm x 200mm x 150mm) in cement mortar 1:6 for superstructure including striking joints on unexposed faces, racking out joints on exposed faces, watering,	item634	54.273	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.54	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6444(Part 1)-1979) (Item No. 07.15)	item635	326.761	Cubic Metre
22.55	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6444(Part 1)-1979) (Item No. 07.15, First Floor)	item636	165.742	Cubic Metre
22.56	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6444(Part 1)-1979) (Item No. 07.15, Second Floor)	item637	38.00	Cubic Metre
22.57	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc. complete. (Item No. 31.26)	item638	33.868	Cubic Metre
22.58	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness incm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding incm mortar 1:3 with waterproofing compound 1 Kilogram/per bag of cement and testing the treated portion for 48 hours by pond test and covering ten years' guarantee on requisite stamp paper including curing etc.	item639	16.934	Cubic Metre
22.59	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete. (Item No. 32.26)	item640	697.00	Running Metre
22.6	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete. (Item No. 32.26, First Floor)	item641	348.50	Running Metre
22.61	Providing and fixing chicken mesh of 22 gauge, with about 30cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete/B.B.masonry and or tying by binding wire etc. complete. (Item No. 32.26, Second Floor)	item642	154.30	Running Metre
22.62	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) (Item No. 31.06)	item643	583.334	Square Metre
22.63	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) (Item No. 31.06, First Floor)	item644	291.667	Square Metre
22.64	Providing waterproof plaster in W.C. and bath 12mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.(Excluding Tiles)(As directed by Engineer in Charge) (Item No. 31.06, Second Floor)	item645	424.221	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.65	Providing rough cast cement plaster externally in two coats to concrete, brick or stone masonry surfaces in all positions with base coat of 12 to 15mm thick in C.M. 1:4 and rough cast treatment 12mm thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing complete. (Item No. 32.12)	item646	226.50	Square Metre
22.66	Supplying & providing approved colour washed stone grit plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10mm nominal size) in panels all around as per approved pattern including scrubbing and washing, the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer in 50% white cement and 50% ordinary grey cement in top layer including scaffolding staging etc complete.	item647	226.50	Square Metre
22.67	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. (Item No. 32.31)	item648	4151.613	Square Metre
22.68	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. (Item No. 32.31, First Floor)	item649	1974.947	Square Metre
22.69	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. (Item No. 32.31, Second Floor)	item650	51.92	Square Metre
22.7	Providing and fixing 1200mm high S.S.304 Grade Stainless steel railing with 40mm diameter and 1.5mm thick at top, 40mm diameter and 1.5mm thick vertical supports spaced at 1.5m center to center and 8mm thick toughened glass including fabricating, fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete (Item No. 40.07)	item651	207.676	Running Metre
22.71	Providing and fixing 40mm diameter and 1.5mm thick Stainless steel hand railing in S.S.304 Grade including fabricating, fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete (Item No. 40.06)	item652	375.75	Running Metre
22.72	Providing and laying polished hand cut Kotah Stone flooring 25mm to 30mm thick and 45cm to 55cm wide in plain/diamond pattern on a bed of 1:6 C.M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. (Item No. 33.08)	item653	594.92	Square Metre
22.73	Providing and laying polished hand cut Kotah Stone flooring 25mm to 30mm thick and 45cm to 55cm wide in plain/diamond pattern on a bed of 1:6 C.M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. (Item No. 33.08, First Floor)	item654	341.330	Square Metre
22.74	Providing and laying in position flooring of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. (Item No. 33.34)	item655	2054.182	Square Metre
22.75	Providing and laying in position flooring of telephone black/Amba White/Cat bary brown/Ruby red/Ocean Brown granite stone of approved shade and size 18mm to 20mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete. (Item No. 33.34, First Floor)	item656	893.44	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.76	Providing and laying Antiskid ceramic tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement morar including neat cement float, filling joints, curing and cleaning etc. complete. (Item No. 33.42)	item657	162.188	Square Metre
22.77	Providing and laying Antiskid Ceramic tiles having size 590mm to 605mm x to 605mm of 8 to 10mm thickness and confirming IS. 15622-2006(Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement morar including neat cement float, filling joints, curing and cleaning etc. complete. (Item No. 33.42, First Floor)	item658	81.094	Square Metre
22.78	Providing and laying vitrified mirror/glossy finish tiles having size 590mm to 605mm x 590mm to 605mm of 8 to 10mm thickness and confirming to IS. 15622-2006(group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete (Item No. 33.41, Second Floor)	item659	156.10	Square Metre
22.79	Providing and laying vitrified mirror/glossy finish tiles having size 590mm to 605mm x 590mm to 605mm of 8 to 10mm thickness and confirming to IS. 15622-2006(group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete (Item No. 33.41, First Floor)	item660	77.19	Square Metre
22.8	Providing and fixing machine cut machine polished 18mm to 20mm thick telephone black/Amba White/Cat bary brown/RBI red/Ocean Brown granite stone for treads and risers of steps and staircases of approved colour and shade with full moulding and three grooved line for the treads on bed of 1:4 Cement mortar including float filling joints with neat cement slurry curing polishing and cleaning etc. complete. (Item No. 33.35)	item661	145.80	Square Metre
22.81	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. (Item No. 33.18, Second Floor)	item662	16.70	Square Metre
22.82	Providing and laying cement concrete flooring 50mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth(with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand (Item No. 22.16)	item663	19.14	Square Metre
22.83	Providing and laying cement concrete flooring 50mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth(with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand (Item No. 22.16, First Floor)	item664	19.14	Square Metre
22.84	Providing & Fixing in position, Polyvinyl chloride (PVC) Carpet more than 800+ gsm, of approved make along with 5mm underlay as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour, finishing etc. complete.	item665	28.71	Square Metre
22.85	Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25mm to 30mm thick fixed on base on plaster of cement mortar 1:4 including cement float, filling joints with cement slurry, curing rubbing, polishing and cleaning complete. (Item No. 33.81, First Floor)	item666	2.974	Square Metre
22.86	Providing and laying vitrified mirror/glossy finish tiles having size 590mm to 605mm x 590mm to 605mm of 8 to 10mm thickness and confirming to IS. 15622-2006(group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete (Item No. 33.41)	item667	477.404	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
22.87	Providing and laying vitrified mirror/glossy finish tiles having size 590mm to 605mm x 590mm to 605mm of 8 to 10mm thickness and confirming to IS. 15622-2006(group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete (Item No. 33.41)	item668	238.702	Square Metre
22.88	Providing and applying one coat of seal cement primer of approved manufacture and shed including scaffolding preparing the surface by cleaning dirt and other foreign matters, scrapping if necessary including scaffolding etc. complete. (Item No. 35.22)	item669	4151.613	Square Metre
22.89	Providing and applying one coat of seal cement primer of approved manufacture and shed including scaffolding preparing the surface by cleaning dirt and other foreign matters, scrapping if necessary including scaffolding etc. complete. (Item No. 35.22, First Floor)	item670	1974.947	Square Metre
22.9	Providing and applying one coat of seal cement primer of approved manufacture and shed including scaffolding preparing the surface by cleaning dirt and other foreign matters, scrapping if necessary including scaffolding etc. complete. (Item No. 35.22, Second Floor)	item671	51.92	Square Metre
22.91	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. (Item No. 32.34)	item672	4151.613	Square Metre
22.92	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. (Item No. 32.34, First Floor)	item673	1974.947	Square Metre
22.93	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. (Item No. 32.34, Second Floor)	item674	51.92	Square Metre
22.94	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces.(excluding the primer coat.)etc. complete. (Item No. 36.10)	item675	4151.613	Square Metre
22.95	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces.(excluding the primer coat.)etc. complete. (Item No. 36.10, First Floor)	item676	1974.947	Square Metre
22.96	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in one coat including scaffolding, preparing the surfaces.(excluding the primer coat.)etc. complete. (Item No. 36.10, Second Floor)	item677	51.92	Square Metre
22.97	Providing and applying white-wash in two coats on old/new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete. (Item No. 36.03)	item678	394.572	Square Metre
22.98	Providing and applying white-wash in two coats on old/new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete. (Item No. 36.03, First Floor)	item679	197.286	Square Metre
22.99	Providing and applying white-wash in two coats on old/new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete. (Item No. 36.03, Second Floor)	item680	51.30	Square Metre
23	Providing and fixing Modular false ceiling of 600 x 600mm center to center and 13mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 "(50mm x 40mm) weighing 0.39 Kilogram/m at 60cms center center and fixed with " x "(15 x 15mm) flanges weighing 0.19 Kilogram/m suspended on 6mm dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams including rounding of the edges with alluminium T of 2" x 1 "(50mm x 40mm) weighing 0.39 Kilogram/m etc.(all alluminium sections shall be anodized) including all labour,	item681	834.976	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
23.01	Providing and fixing Modular false ceiling of 600 x 600mm center to center and 13mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 "(50mm x 40mm) weighing 0.39 Kilogram/m at 60cms center center and fixed with " x "(15 x 15mm) flanges weighing 0.19 Kilogram/m suspended on 6mm dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams including rounding of the edges with alluminium T of 2" x 1 "(50mm x 40mm) weighing 0.39 Kilogram/m etc.(all alluminium sections shall be anodized) including all labour,	item682	288.72	Square Metre
23.02	Providing and fixing in position Gypsum board false ceiling with 12.5mm thick Gypsum boards, screwed/fixd to the under structure of suspended G.I. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50mm maximum center to center distance of 600 milimetre perimeter channel and intermediate channels at maximum center to center distance 1200 milimetre galvanized grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete. (Item No. 38.51)	item683	50.00	Square Metre
23.03	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. (Item No. 38.48)	item684	146.776	Square Metre
23.04	Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.Providing and Fixing of GI Lay in Plain metal ceiling consisting of 600x600mm Lay in tiles of pre coated galvanized steel in 0.5mm thickness in Global white color tile to be laid on grid systems with 15mm wide T-section flanges color white having rotary stitching on the Main Runner, 1200mm and 600mm Cross Tees.products approved as per GRIHA and BS 476 etc. complete. (Item No. 38.48, First Floor)	item685	67.738	Square Metre
23.05	Providing and preparing kitchen otta up to 75cm width, made up from 30mm thick and 75cm high vertical support for kadppa at 1m. c/c of 25mm thick both side polished kadappa middle shelf and bottom of 20mm thick one side polished kadappa with facia patti of 20 x 50mm kadappa including all material labour cutting fixing with cement mortar	item686	9.00	Square Metre
23.06	Providing and preparing kitchen otta up to 75cm width, made up from 30mm thick and 75cm high vertical support for kadppa at 1m. c/c of 25mm thick both side polished kadappa middle shelf and bottom of 20mm thick one side polished kadappa with facia patti of 20 x 50mm kadappa including all material labour cutting fixing with cement mortar	item687	4.50	Square Metre
23.07	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete (Item No. 39.01)	item688	3.230	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
23.08	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete (Item No. 39.01, First Floor)	item689	1.390	Cubic Metre
23.09	Providing and fixing frame with/without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil painting, etc. complete (Item No. 39.01)	item690	0.12	Cubic Metre
23.1	Providing and fixing solid core flush door shutter in double leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. (Item No. 39.95)	item691	16.20	Square Metre
23.11	Providing and fixing solid core flush door shutter in double leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. (Item No. 39.95, First Floor)	item692	8.10	Square Metre
23.12	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. (Item No. 39.09)	item693	18.06	Square Metre
23.13	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. (Item No. 39.09, First Floor)	item694	3.36	Square Metre
23.14	Providing and fixing iron painted MS door with thickness 3mm double door/single door with frame and Fittings etc complete.	item695	54.540	Square Metre
23.15	Providing and fixing iron painted MS door with thickness 3mm double door/single door with frame and Fittings etc complete.(First Floor)	item696	42.390	Square Metre
23.16	Providing and fixing iron painted MS door with thickness 3mm double door/single door with frame and Fittings etc complete.(Second Floor)	item697	12.96	Square Metre
23.17	Providing and Fixing 12mm toughened Glass door shutter with Fittings, etc complete.	item698	215.040	Square Metre
23.18	Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20mm thick for door frame/dado/window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete. (Item No. 33.68)	item699	2.88	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
23.19	Providing cement based water proofing treatment to terraces(Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20mm. thick layers of same mortar added with jute fiber at 1Kilogramper bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking finished surface with false squares of 300mm x 300mm. making the junctions at the parapet rounded and tapered top for required height, with drip mould at the junction of plaster and parapet and curing and covering 10 years Guarantee against leakproofness on Court fee stamp paper of Rs. 500/-including ponding test etc. complete. (Item No. 31.04, Second Floor)	item700	698.20	Square Metre
23.2	Providing structural steel work of rectangular hollow steel section for steel trusses, other similar trussed items like purlin and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted/bolted/welded connections and one coat of anticorrosive paint and over it two coats of oil painting of approved	item701	21.00	Metric Tonne
23.21	Providing and fixing 20mm dia. mild steel bar upto 0.5 M. length for anchor rods with necessary threading nuts and bolts etc. complete. (Item No. 38.32)	item702	210.00	Number
23.22	1.Roofing Sheet (Top Layer): Supply and fixing of MxSeam(R) Standing Seam Profile (Factoryroll formed length upto 12 mtr.) of Maxroof having nominal 480 mm effective cover width and46 mm corrugation depth in Bare Galvalume Steel materials. The feed material is manufactured out of nominal 0.55 mm Total coated thickness (TCT), High tensile steel with250 to 300 MPa yield strength, metallic hot dipped coated with Aluminium-Zinc alloy coating(55% Aluminium, 43.3% Zinc & 1.6% Silicon) as per AS 1397 AZ150 having min. 150 grams/sq. m. total on both sides. The roof panels shall be side lapped with seaming process involvesthe male and female ribs snugly anchored on the special designed GI Clip Head and clips are fixed to structural members by self-drilling screws. (Tata BlueScope or Jsw Make Base Coils) Color: Wind Spray (Profile- MxSEAM) MAKE -CLASSIC ZIP400 2.Insulation layer: Rockwool Insulation layer having 100 mm thick, 48 kg/m3 density. 3.Vapour Control Layer: Supply & Installation of vapour control layer upto 150 micron thickness to be laid below rockwool insulation. 4.Top Hat Bracket with Z Type Spacer: Supply & Installation of 40 mm height Top Hat Bracket with 40 mm Height Z GI Sub-girt to be fixed with help of self tapping screws at every Top Hat Bracket location over liner sheets to accommodate 100 mm thick insulation, the height of 100 mm will cater the thickness of insulation. (Size - 40x50x40x1.5mm Thk). 5.Liner Roofing Sheet (Bottom Layer): Linear Color Coated Galvalume Roofing Sheet in MxLine 1050 profile fixed over purlins with self tapping screws. The feed material is manufactured out of nominal 0.42 mm Base Metal thaickness (BMT) 0.47 mm Total coated thickness (TCT), High tensile steel with minimum 550 MPa yield strength, metallic hot dipped coated with Aluminium-Zinc alloy coating (55% Aluminium, 43.3% Zinc & 1.6% Silicon) as per AS 1397 AZ150 having min. 150 grams/ sq. m. total on both sides. (Tata BlueScope Steel Ltd Make Base Coil) (Profile -	item703	414.32	Square Metre
23.23	Flashings: Supply & fixing of 0.55mm thick colour coated Galvalume flashing for above matching profile upto 600mm Girth. Supply length would be 2.5m.(Tata Blue Scope Steel Ltd Make Base Coli) (Second Floor)	item704	150.00	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
23.24	Supply and installation of cubicles of width and depth as per Athena Lite SS Series Cubicles-Std Sizes(W x D x H): 900mm x 1550mm x 2105mm, (Height is including 100mm gap from bottom, Door Width-600mm specifications/site drawings). Cubicle height to be 2105mm. Made from solid grade compact high pressure laminate as per IS:2046 and EN-438 manufactured under high specific pressure > 5 MPa and temperature >120C, All doors will be of single colour and made of 12mm thick Merino HPL compact panel. The doors will have chamfered edges. Nos door will be supported by 3 stainless steel made hinges affixed to the pilasters. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are H shaped(Top) head frame structure made of extruded Aluminium grade 6063 T5-50 micron epoxy powder coated for surface protection, Size to be 125x70x5T. Corner joinery section, Size to be 40x16.5x1.8T. U-Channel Wall joinery section, Size to be 22x16x1.6T. Door stopper section, Size to be 21x12.5x1.6T. Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated.etc complete. (Item No. 51.162)	item705	46.62	Square Metre
23.25	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted/bolted/welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete. (Item No. 23.01)	item706	13.50	Metric Tonne
23.26	Providing and fixing in position aluminium openable window of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening with 5mm thick clear float glass etc. complete. :: b) Powder Coated (Item No. 39.51b)	item707	181.90	Square Metre
23.27	Providing and fixing in position aluminium fixed window fully glazed of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening such as 5mm thick clear float glass etc. complete. Note While arriving at the rate of item of item weight at 6.90 Kilogram/square metre is considered. :: b) Powder Coated (Item No. 39.52b)	item708	216.816	Square Metre
24	Academic Building - Compound Wall			
24.01	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift upto 0.00 to 1.50m.) By Manual Means (Item No. 21.01)	item709	15.84	Cubic Metre
24.02	Providing dry/trap/granite/quartzite/gneiss rubble stone soling 15cm to 20cm thick including hand packing and compacting etc. complete. (Item No. 21.38)	item710	2.112	Cubic Metre
24.03	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 24.01)	item711	0.808	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
24.04	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.15)	item712	1.782	Cubic Metre
24.05	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. Layers including watering and compacting etc. complete. (Item No. 21.36)	item713	27.675	Cubic Metre
24.06	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.54)	item714	2.888	Cubic Metre
24.07	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.35)	item715	4.44	Cubic Metre
24.08	Providing and fixing in position TMT-FE-500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, arches, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. (Item No. 26.33)	item716	4.00	Metric Tonne
24.09	Providing second class Burnt Brick masonry with conventional/I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete (Item No. 27.05)	item717	28.877	Cubic Metre
24.1	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. (Item No. 32.11)	item718	702.00	Square Metre
24.11	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete. (Item No. 35.21)	item719	702.00	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
24.12	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. (Item No. 35.15)	item720	702.00	Square Metre
24.13	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45mm dia G.I. pipe(Rezan/concentiDeleted ire 0.75mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete. (Item No. 40.05)	item721	117.00	Running Metre
25	Academic Building - Acoustical Work			
25.01	Providing & Fixing in position, Acoustical Panelling made from Wood-wool board 20mm on, 50 x 50mm Sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 Gsm synthetic wool 50mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings/finishing-items/paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour, finishing etc complete.(NRC value should be more than 0.9) (Item No. 51.02, First Floor)	item722	291.47	Square Metre
25.02	Providing & Fixing in position Acoustical Doors along with 150 x 150mm teak wood frame, doors made from 50mm Teak wood frame 600 x600 c to c filled with 1000 Gsm synthetic wool 50mm thick and 3mm Tecsound from both sides, 12mm waterproof ply & veneer from both sides, including 150mm heavy duty SS hinges(Geze/Dorma or eq.) 4 no Nos leaf, with Door-closer(Dorma/Geze or eq.) including cost of required Cut-Outs, decorative mouldings/finishing-items/melamine polish & Scaffolding as per Architectural & Acoustical Design & Instructions & Complete in all aspects .including all materials labour, finishing etc complete (Item No. 51.05)	item723	14.400	Square Metre
25.03	Providing and Fixing Soft Fibre Acoustical Suspended Ceiling System with Optra(Bevelled Tegular) Edge Tiles of size 15mm Exposed Grid. The tiles should have Humidity Resistance(RH) of 95%, NRC 0.9-1.0, Light Reflectance ?85%, Colour White, Fire Performance UK Class 0/Class 1(BS 476 pt-6 &7) in module size of 600 x 600 x 15mm, suitable for Green Building application, with Recycled content of 66% GW and 74% RW. The tile shall be laid on precoated G.I channel 32 with 15mm wide T-section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200mm and 600mm Cross Tees with a web height of 32mm and a load carrying capacity of 7 Kilograms/M2 with a minimum pull out strength of 100 Kilograms. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system The Tile and Grid system used together should carry a 10 year warranty. products approved as per GRIHA and BS 476 etc. complete. (Item No. 38.47)	item724	1310.420	Square Metre
26	Academic Building - Road Work			
26.01	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150mm in thickness. (Item No. 2.09)	item725	3426.351	Square Metre
26.02	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed. (Item No. 2.11)	item726	1027.905	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
26.03	Excavation for roadway in hard murum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m.and spreading for embankment or stacking as directed. (Item No. 2.13)	item727	1027.905	Cubic Metre
26.04	Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader/Paver on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401 -- By Mix in Place Method and Grading-I Material (Item No. 3.04)	item728	804.070	Cubic Metre
26.05	Wet Mix Macadam -- Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Laying By Grader/Paver. (Item No. 3.23)	item729	603.053	Cubic Metre
26.06	Providing and constructing 75mm. thick Modified Penetration Macadam(MPM) road surface including all materials, preparing the existing road surface, spreading 40mm. stone layers metal 100% crusher broken metal with conical crusher plant, heating and spraying the bitumen of specified grade @ 2kg/Square Metre, spreading 12mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc.complete, including applying tack coat of specified grade of bitumen at the rate of 0.30 Kg Square Metre. on existing bitumen surface.(VG-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.36b)	item730	3426.351	Square Metre
26.07	DENSE BITUMINOUS MACADAM: Proving and laying dense bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder of specified grade of Bitumen @ 4.50 per cent by weight of total mix and filler, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired density for 76-100mm compacted thickness .USING Batch mix type hot mix plant with SCADA, Sensor Paver, Vibratory roller with Stone Dust filler.(VG-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.44)	item731	205.581	Cubic Metre
26.08	BITUMINOUS CONCRETE:-Providing and laying bituminous concrete using crushed aggregates of grading 1, premixed with bituminous binder @ 5.20 per cent by weight of total mix and filler, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50mm compacted thickness with specified grade of Bitumen, Excluding prime/tack coat. For Bitumen of specified grade -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, Vibratory roller with Stone Dust filler.(VG-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.48)	item732	102.791	Cubic Metre
26.09	Prime coat-Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying, primer at the rate of 0.60kg/Square Metre using mechanical means. (Item No. 3.29)	item733	3426.351	Square Metre
26.1	Providing and applying tack coat on the prepared surface heating by fames in Boiler and spraying bitumen set footed in bitumen boller on B.T. surface 2.5kg/10Square Metre.(VG-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.30)	item734	3426.351	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
26.11	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate(natural sand/VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a batching and mixing plant/non tilting mixer and Weigh batcher as per approved mix design, admixtures, transporting to site, spreading, laying with approved make paver, compacted and finished in a continuous operation, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound/by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80mm at bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. (Item No. 5.01)	item735	201.96	Cubic Metre
26.12	Providing and laying in situ/ready mix cement concrete of M-10 proportion with trap/granite/quartzite/gneiss metal in foundation including necessary form work, compacting and curing etc. complete.(with reversible drum type mixer with SCADA with fine aggregates of required specifications(Natural sand/VSI sand finely washed etc) (Item No. 11.02)	item736	20.563	Cubic Metre
26.13	Providing and casting in situ or precast tapering R.C.C. M-20 Semi Barrier type Kerb without gutter(as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant (Item No. 7.02)	item737	1028.16	Running Metre
27	Academic Building - Infra Work			
27.01	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150mm in thickness. (Item No. 2.09)	item738	1025.524	Square Metre
27.02	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed. (Item No. 2.11)	item739	181.74	Cubic Metre
27.03	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 24.01)	item740	155.696	Cubic Metre
27.04	Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry, curing, polishing and cleaning etc. complete. (Item No. 33.06)	item741	204.435	Square Metre
27.05	Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25mm to 30mm thick fixed on base on plaster of cement mortar 1:4 including cement float, filling joints with cement slurry, curing rubbing, polishing and cleaning complete. (Item No. 33.81)	item742	186.075	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
27.06	Providing and fixing heavy duty inter locking concrete Grey paving blocks of 60mm thickness of having a strength of 300 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30mm thick including skirting joints and cleaning etc. complete. (Item No. 33.49)	item743	924.174	Square Metre
27.07	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift upto 1.5m.) By Mechanical Means (Item No. 21.02)	item744	156.585	Cubic Metre
27.08	Excavation for foundation in hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift from 1.5 to 3.0m) By Manual Means (Item No. 21.07)	item745	121.305	Cubic Metre
27.09	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering, formwork, cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided(Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.13)	item746	132.48	Cubic Metre
27.1	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/granite/quartzite/gneiss metal for R.C.C. pardi of required thickness including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening them if special finish is to be provided and curing complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 26.19)	item747	313.404	Cubic Metre
27.11	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.33)	item748	3.892	Cubic Metre
27.12	Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.52)	item749	8.694	Cubic Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
27.13	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand VSI Grade) (Item No. 25.72)	item750	4.41	Cubic Metre
27.14	Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185(Part 3)-1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete.(The test shall be carried out conforming to IS:6441(Part I)-1972) (Item No. 27.15)	item751	23.375	Cubic Metre
27.15	Providing and applying gypsum plaster(with Gypsum material) with finishing with gypsum material in 10 to 13 millimeter thickness to previously plastered surface/or on newly brick surface(Excluding rough cast plaster) in all position including preparing and Finishing the surface scaffolding etc.complete. (Item No. 32.31)	item752	98.60	Square Metre
27.16	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. (Item No. 32.11)	item753	108.80	Square Metre
27.17	Providing and applying Two coats of wall care Putty on plastered surface and Ceiling and Walls to prepare surface even and smooth of approved make, etc complete. (Item No. 32.34)	item754	98.60	Square Metre
27.18	Providing and applying priming coat on concrete/masonry/Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete. (Item No. 35.21)	item755	197.20	Square Metre
27.19	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.(excluding the primer coat.) etc. complete. (Item No. 36.11)	item756	197.20	Square Metre
27.2	Providing and laying vitrified mirror/glossy finish tiles decorative type having size 590mm to 605mm x 590mm to 605mm of 8 to 10mm thickness and confirming to IS. 15622-2006(group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete. (Item No. 33.40)	item757	35.28	Square Metre
27.21	Providing and laying vitrified mirror/glossy finish tiles having size 590mm to 605mm x 590mm to 605mm of 8 to 10mm thickness and confirming to IS. 15622-2006(group Bla) of approved make, shade and pattern for dado and skirting in required position fixed in 1:4 cement mortar including neat cement float, filling joints, curing and clearing etc. complete (Item No. 33.41)	item758	3.528	Square Metre
27.22	Providing and fixing solid core flush door shutter in single leaf 32mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock, chromium plated handles on both sides, and finishing with French Polish etc. complete. (Item No. 39.09)	item759	5.40	Square Metre

Sl. No.	Item Description	Item Code / Make	Quantity	Units
27.23	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted/bolted/welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete. (Item No. 23.01)	item760	10.57	Metric Tonne
27.24	Providing and fixing polycarbonate sheet to walkway including all necessary fittings, etc complete.	item761	352.00	Square Metre
28	Academic Building - Electric Installation			
28.01	Supplying, erecting & marking SPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item762	110	Nos
28.02	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item763	68	Nos
28.03	Supplying, erecting & marking DP MCB 40A to 63A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-MCB	item764	5	Nos
28.04	Supplying, erecting & marking TPMCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item765	14	Nos
28.05	Supplying, erecting & marking TPMCB 40A to 63A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item766	2	Nos
28.06	Supplying & erecting triple pole and neutral distribution board (TPNDB),SPMCB of 8 ways / phase (24 poles), with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	item767	15	Nos
28.07	Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 12 ways /36 poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (vertical busbar type) as per specification no. SW-SWR/MCBDB	item768	3	Nos
28.08	Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 6 ways (6 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification no. SW-SWR/MCBDB	item769	3	Nos
28.09	Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 10 ways (10 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification no. SW-SWR/MCBDB	item770	8	Nos
28.1	Supplying and erecting blanking plate of suitable size on MCBDB.	item771	20	Nos
28.11	Supplying, erecting & commissioning 2 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item772	42	Nos
28.12	Supplying, erecting & commissioning 2 pole RCCB40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item773	8	Nos
28.13	Supplying, erecting, testing & commissioning 250 kVAr, 440 V, 3 phase, 50 Hz., APFC Panel with contactor logic with intelligent microprocessor relay, consisting of 3,5,5,7,10,20,20,25,25,30,50,50 or suitable steps of APP/MPP type capacitor units with detuned (harmonic filter) reactors of suitable rating, APFC panel shall be compliance to IEC 61439 and power quality IEC 61921 standard as per specification no. CP-ED/APFC.	item774	0	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
28.14	Supplying and erecting quartz electronic time switch having 24 hour dial to work on 250 V 50 cycle AC having built in rechargeable nickel cadmium batteries to run the time switch on failure of supply having switch contact rating up to 16A to use independently or in conjunction with contactor.	item775	0	Nos
28.15	Supplying and erecting four pole power contactor 430 V, 16 A for time switch complete erected on provided wooden block/ box, with necessary materials.	item776	0	Nos
28.16	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 240 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item777	210	Mtr
28.17	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 95 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item778	90	Mtr
28.18	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 35 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item779	35	Mtr
28.19	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 25 sq. mm. aluminium conductor complete erected with glands & lugs on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	item780	65	Mtr
28.2	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item781	350	Mtr
28.21	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item782	350	Mtr
28.22	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item783	30	Mtr
28.23	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 16 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item784	410	Mtr
28.24	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item785	160	Mtr
28.25	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item786	45	Mtr
28.26	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item787	20	Mtr
28.27	Supplying and erecting PVC box trunking of size 100x50 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX	item788	210	Mtr

Sl. No.	Item Description	Item Code / Make	Quantity	Units
28.28	Supplying and erecting HMS PVC conduit FRLS grade 25 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC.	item789	910	Mtr
28.29	Supplying and laying HMS PVC conduit FRLS grade 25 mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC.	item790	1169	Mtr
28.3	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	item791	3460	Mtr
28.31	Supplying and erecting mains with 1x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW (NOTE 3)	item792	3460	Mtr
28.32	Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places.as per specification No: WG-MA/BW	item793	385	Mtr
28.33	Supplying and erecting mains with 1x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places.as per specification No: WG-MA/BW (NOTE 3)	item794	385	Mtr
28.34	Supplying and erecting mains with 3x10 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW	item795	20	Mtr
28.35	Supplying and erecting modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	item796	227	Nos
28.36	Supplying and erecting modular type switch 16A duly erected on provided plate and box with wiring connections complete.	item797	66	Nos
28.37	Supplying and erecting modular type switch 16 / 20 A with indicator, duly erected on provided plate and box with wiring connections complete	item798	15	Nos
28.38	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete	item799	227	Nos
28.39	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	item800	72	Nos
28.4	Supplying and erecting modular type blanking plate one module, duly erected on provided plate & box.	item801	25	Nos
28.41	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item802	6	Nos
28.42	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item803	172	Nos
28.43	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item804	121	Nos
28.44	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item805	5	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
28.45	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background	item806	5	Nos
28.46	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	item807	2	Nos
28.47	Point wiring for light/bell concealed type in min 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification No: WG PW/CW	item808	187	Point
28.48	Point wiring for ceiling fan concealed type in min 20 mm HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification no. WG-PW/CW	item809	107	Point
28.49	Secondary point wiring for additional light/ bell point, concealed type in min 20 mm FRLS grade PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires with required accessories as per specification No: WG-PW/CW	item810	271	Point
28.5	Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WG-PW/CW	item811	20	Point
28.51	Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 770 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.	item812	6	Point
28.52	Supplying and erecting anodized aluminium corridor / passage / mirror light LED fitting (2 feet) Max. 12W with high transitivity diffuser with min. system lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs. at L70B50, including driver with end caps on provided PVC Block / wooden board with 3 years warranty. (Mirror)	item813	12	Nos
28.53	Supplying and erecting Electronic type cordless call bell erected on T.W. board having portable bell push working on 9V D.C. battery and (effective range upto 45 meter) bell on 250 V A.C. supply.	item814	8	Nos
28.54	Supplying and erecting anodized aluminium corridor / passage light LED fitting (4 feet) Max. 22W with high transitivity diffuser with system lumens output of Min.2200 lumens , min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs. at L70B50, including driver, with end caps on provided PVC Block / wooden board with 3 years warranty . (36*4 + 18*2 = 180) - 20 Emergency = 160 Nos	item815	160	Nos
28.55	Supplying and erecting LED square / circular Max. 14 W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 1500 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED.	item816	166	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
28.56	Supplying and erecting LED Panel Light(600mm X 600mm) Max. 30 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min. 3600 Lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty (48+22=70)	item817	70	Nos
28.57	Supplying and erecting LED Strip light 5m Length Max. 45 W IP20 class having minimum lumens output of 800 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f.>0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50, including driver/SMPS 120W, Housing material - Aluminium LLS-12WFT 50mmx70mm Led Light Fixtures (12 foot) EMPTY with suspension Kit, with 1 year warranty	item818	5	Nos
28.58	Supplying & erecting inverter LED batten 20W tube light fitting with polycarbonate housing, heat sink, integrated HF electronic driver, Min. 2600 mAh Lithium ion Battery with charging time of 8-10 Hours and backup time of Min. 3 hrs. with minimum 25% of initial Watts having luminous efficacy of 100 lumen/watt, CRI>80, CCT of 6500K and THD<=20% having useful life of minimum 25000 hrs. with overheating protection with 2 years warranty (10 Emergency Lights in all lecture hall + 4 Ele X 3 FI+4 ELV Room X 3 FI)	item819	44	Nos
28.59	Supplying and erecting integrated LED flood light fitting Max. 50W IP65 & IK07 class having pressure die-cast aluminium housing, having system lumens output of Min. 5000 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-270V, inbuilt surge protection of 4 kV, Life class of 50,000 Hrs at L70B50 including driver with U shaped bracket with minimum 2 Years warranty as per specification No. FG-ODF/FL.	item820	1	Nos
28.6	Ceiling fan with Auto ON OFF Function, 3200CMH, 88X20MM Copper Motor, 3 ABS Blade, 3 Speed with Remote Control 2'X2' size with all axssoreis for installation complete.((6+6+4) 16X3 FI)	item821	48	Nos
28.61	Supplying and erecting fan hook box of 10 mm M.S. round bar bounded to the R.C.C. bars upto 50 mm length Nos side and pierced through a 16 S.W.G. thick aluminium/M.S. Bowl 100 mm dia. or equivalent square size and having depth upto 75 mm complete erected with duly painted by one coat of red oxide paint and two coats of paint erected in position and without any leakage of slurry of cement concrete on either side of the box and positioned to the bottom level of the slab.	item822	5	Nos
28.62	Supplying and erecting 'B' class G.I .pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire.	item823	5	Nos
28.63	Supplying and erecting Energy Saving BLDC Ceiling fan 230 V A.C. 50 cycles 1200 mm, max. energy consumption of 28W having service ratio (CMM/W) of Min. 8 , PF>0.9, THD	item824	15	Nos
28.64	Supplying and erecting exhaust fan medium duty 230 V A.C. 50 cycles 225 mm. 1400 RPM with condenser complete erected in position with necessary materials. Fan motor with moisture proof treatment and 'E' class insulation.	item825	12	Nos
28.65	Providing & erecting hot dipped galvanised ladder type cable tray manufactured from 16 SWG (1.6 mm thick) GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware.	item826	20	Mtr
28.66	Supplying,erecting, testing & commisioning of 10 kVA capacity on line pure sine wave,PWM,IGBT based UPS with 0.9 to unity output pf ,3 phase input &3 phase output complete with all protections as per specification no. AP-UPS (Without batteries)	item827	1	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
28.67	Supplying and erecting 12V/42Ah SMF battery with battery terminal wire, duly charged with 24 months warranty complete for 30 minutes.	item828	30	Nos
28.68	Supplying & laying (including excavation) reinforced cement concrete pipe of NP-2 class of 250 mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	item829	280	Mtr
28.69	Providing and constructing Brick Masonry Inspection Chamber 60cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channel half round G.S.W. pipes, Brick Masonry, plastering from inside and with frame fixed in cement concrete with R.C.C. Cover medium duty 140 Kilogram with frame etc complete.	item830	24	Nos
28.7	Supplying, installation, testing & commissioning of Infrared, Surface Mounted PIR occupancy Sensor with day light dimming in the false ceiling / surface, compatible for 30/ 15Watt LED lights	item831	0	Nos
28.71	Supplying and erecting LED Strip light 5m Length Max. 60 W/12W/Mtr IP20 class having minimum lumens output of 800 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f.>0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50, including driver/SMPS 120W, Housing material Aluminium LLS-12WFT 50mmx70mm Led Light Fixtures (12 foot) EMPTY with suspension Kit, HOUSING with 1 year warranty Min. 2600 mAh Lithium ion Battery with charging time of 8-10 Hours and backup time of Min. 3 hrs.	item832	1	Nos
28.72	Supplying and erecting LED square / circular Max. 14 W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 1500 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED. Min. 2600 mAh Lithium ion Battery with charging time of 8-10 Hours and backup time of Min. 3 hrs. (4 X 3 FI = 12 + 8 on Last FI = 20)	item833	20	Nos
28.73	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame.	item834	2	Nos
28.74	Supplying, installation and testing of maintenance free earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with 25 kg Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity complete, and recording the results Specification no. EA-MOBI	item835	8	Nos
28.75	Supplying & erecting conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40 mm dia copper pipe of standard length with 5 Nos. copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation complete.	item836	7	Nos
28.76	Supplying and erecting annealed bare copper wire of high purity of required sizes used for earthing on wall with necessary copper clamps fixed on wall/cable/conduit with screws complete.	item837	80	kg

Sl. No.	Item Description	Item Code / Make	Quantity	Units
28.77	Supply, Installation, testing and commissioning of cubical type MV Panel conform to IEC:61439-I as per technical specifications, single line diagram & approval of Drawings prior to manufacturing, packed in wooden crates with PVC sheets inner packing, transport to site, compartmental cubicle type freestanding with appropriate cable entries, front operating, front maintained wherever required complete with base frame etc. erected in 14 gauge CRCA sheet and surface treated with phosphating seven tank process and duly powder coated with MSEDCL approved color, feeder pillar should be with supporting angles, self-locks, gasket and slanting top to be erected on provided foundation	item838	0	Nos
28.78	Feeder Pillar as per SLD Duty -Duty: Outdoor Type (IP 65) Incomer-1 Nos of 1250A FP LSIG Microprocesor based MCCB with aux contacts, ON, OFF, TRIP Indicators, Multifunction Dual Source Meter. Busbar - 1250A TPN AI Busbar Outgoings - 1 Nos of 800A TPN MCCB, 1 Nos 400A TPN MCCB, 2 Nos 125A FP MCCB, 2 Nos 40A FP MCB, SPD Class I+II	item839	0	Nos
28.79	Acedemic Building Main Panel Duty -Duty: Indoor Type (IP 42) Incomer-1 Nos of 400A FP LSIG Microprocesor based MCCB with aux contacts, ON, OFF, TRIP Indicators, Multifunction Dual Source Meter. RTPFC Sensing. Busbar - 400A TPN AI Busbar Outgoings - 1 Nos 200A FP MCCB, 4 Nos of 125A FP MCCB, 2 Nos 63A FP MCB, 1 Nos 40A FP MCB, 2 Nos 32A FP MCB, 2 Nos 25A FP MCB, 2 Nos 10A SP MCB, SPD Class I+II	item840	1	Nos
28.8	Academic Building Floor Panel Duty -Duty: Indoor Type (IP 42) Incomer-1 Nos of 125A FP LSIG Microprocesor based MCCB with aux contacts, ON, OFF, TRIP Indicators, Multifunction Dual Source Meter. Busbar - 125A TPN AI Busbar Outgoings - 7 Nos 25A FP MCB, 5 Nos of 40A FP MCB,	item841	3	Nos
29	Academic Building - Lift, Internal Electrical Work			

Sl. No.	Item Description	Item Code / Make	Quantity	Units
29.01	<p>SITC of Electric Traction Passenger Lift with</p> <ul style="list-style-type: none"> · Rated capacity :- 13 Passenger884Kg · Floors :- G+2 floor (3 Stops/3 Landings) · Travel :- 14 mtrs · Location of Lift Machine:- MR/MRL · Rated speed :- 1.0mps VS · Car/Landing door clear opening of 900 mm wide x 2000 mm high · Clear Car size of 1300 mm wide x 1350 mm deep x 2250mm high · Lift shaft available having clear size of 2600mm wide x 1900mm deep, pit depth-1500mm, Overhead height -4500mm · Doors type :- COPO/TOPO Doors with frame made from SS 304 grade solid(non-cladded) sheet of 1.5mm thick in hairline finish for car and all landing doors with SS door architraves/frames The lift doors shall have minimum 1 hour fire rating (with submission of necessary valid test certificate issued by NABL accredited or Independent test laboratory). · Lift car enclosure made from SS 304 grade solid (non-cladded) sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. The lift car interior design shall be done as per the directions of engineer in charge.. · COP with SS face plate having metallic push buttons with Braille code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with / without attendant key switch, OWD with audio-visual alarm, VAS in Marathi, Hindi & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor. · Clear Car size of 1300 mm wide x 1100 .mm deep x2000 .mm 	item842	2	Nos
29.02	ITC of Duplex Lift control system for two nos. microprocessor/PLC based simplex lift controllers along with necessary software with programming and hardware e.g. logic board, necessary communication/control/data cabling laying in rigid PVC conduits/trunking etc. complete.	item843	1	Nos
29.03	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	item844	100.00	m
29.04	Supplying and erecting mains with 1x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	item845	100.00	m
29.05	Supplying and erecting modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	item846	8.00	Nos
29.06	Supplying and erecting modular type switch 16A duly erected on provided plate and box with wiring connections complete.	item847	8.00	Nos
29.07	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	item848	8.00	Nos
29.08	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	item849	8.00	Nos
29.09	Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 module duly erected.	item850	8.00	Nos
29.1	Supplying and erecting modular type (two module) electronic step regulator for fan, duly erected on provided plate and box with wiring connections complete.	item851	2.00	Nos
29.11	Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WG-PW/CW	item852	2.00	Point
29.12	Point wiring for ceiling fan concealed type in min 20 mm HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification no. WG-PW/CW	item853	2.00	Point

Sl. No.	Item Description	Item Code / Make	Quantity	Units
29.13	Point wiring for light/bell concealed type in min 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification No: WG PW/CW	item854	4.00	Point
29.14	Supplying and erecting bulk head LED fitting max. 10W with high transitivity diffuser with system lumens output of min. 1100 lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., THD<10%, p.f. >0.95, operating range of 140-260V, in built surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, IP66, IK09 rated on provided PVC Block / wooden board with 3 years warranty.	item855	8.00	Nos
29.15	Supplying and erecting CRCA powder coated corridor/passage light LED fitting (4 feet) Max. 17W with high transitivity diffuser with system lumens output of Min. 2000 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50, including driver, with end caps on provided PVC Block / wooden board with 3 years warranty.	item856	4.00	Nos
29.16	Providing recess in brick wall suitable for erection of exhaust fan up to 450mm. sweep complete with grouting of nut, bolts, plastering and colour washing to match the colour of the wall for the wall thickness of 225 mm.	item857	2.00	Nos
29.17	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MS	item858	2.00	Nos
29.18	Supplying and erecting exhaust fan medium duty 230 V A.C. 50 cycles 225 mm. 1400 RPM with condenser complete erected in position with necessary materials. Fan motor with moisture proof treatment and 'E' class insulation.	item859	2.00	Nos
29.19	Supplying and erecting Energy Saving BLDC Ceiling fan 230 V A.C. 50 cycles 1200 mm, max. energy consumption of 28W having service ratio (CMM/W) of Min. 8 , PF>0.9, THD<10% with IR remote control/compatible speed regulator, Temperature Rise of Max. 40 deg. C, having external mounted control PCB completely erected in position as per specification no. FG-FN/CF	item860	2.00	Nos
29.2	Supplying, erecting & marking SPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item861	6.00	Nos
29.21	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item862	6.00	Nos
29.22	Supplying, erecting & commissioning 2 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item863	1.00	Nos
29.23	Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 6 ways (6 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification no. SW-SWR/MCBDB	item864	1.00	Nos
29.24	Supplying, erecting & commissioning 4 pole RCCB 63A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	item865	1.00	Nos
29.25	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame.	item866	1.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
29.26	Supplying and erecting iron work, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority.	item867	60.00	kg
29.27	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item868	100.00	m
29.28	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	item869	6.00	m
29.29	Supplying, installation and testing of maintenance free earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with 25 kg Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity complete, and recording the results Specification no. EA-MOBI	item870	8.00	Nos
29.3	Supplying and erecting annealed bare copper wire of high purity of required sizes used for earthing on wall with necessary copper clamps fixed on wall/cable/conduit with screws complete.	item871	40.00	kg
30	Academic Building - Street Lighting			
30.01	Providing & erecting 1.2 m high (clear height) street light type post or Bollard made of AISI 316L stainless steel available in 60 cm and 90 cm heights. Pole head with 3 LEDs. 21°, 45° or 65° optics in 2700K, 3000K and 4000K. Flush black silk-screened extra-clear tempered glass 4 mm thick. Integrated power supply. Flange with anchor bolts for installation in concrete. Surface finish with Natural, Graphite, Bronze coloring.	item872	35.00	Nos
30.02	Supplying and erecting integrated LED Bollard Cylindrical / Cubical shaped 800mm 8W IP65 & IK10 class having extrusion aluminium housing with polycarbonate diffuser, having system lumens output of Min. 800 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 25,000 Hrs. at L50B50, including driver complete with minimum 2 Year warranty as per specification No FG-ODF/BL.	item873	30.00	Nos
30.03	Supplying LED concealed type foot / step light with aluminium body for indoor/outdoor application suitable for 4W-6W LED including driver and erecting by making necessary arrangement / recess in wall to make it flush with surface with 1 year warranty.	item874	20.00	Nos
30.04	Supplying and erecting integrated LED Post Top 45W IP65 & IK10 class having die cast aluminium housing with UV protected polycarbonate diffuser, having system lumens output of Min.4500 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 30,000 Hrs. at L50B50, including driver complete with 2 Year warranty as per specification No FG ODF/FLS2.	item875	20.00	Nos
30.05	Making M- 20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 1.5 m depth including supply of steel, concrete, excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 6m to 8m high octagonal /conical GI pole).	item876	35.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
30.06	Supplying & erecting three phase, 415V, street light control panel up to the max load of 6kW, TPN MCB 40A, powder coated CRCA 14 SWG sheet, outdoor type, having IP54,IK10 protection, suitable rating contactor, 24 hrs. astronomical time switch with minimum 5 years battery back up, auto/manual selector switch, ON/OFF push buttons, indicator lamps, control wiring, metering device, etc. for automatic operation, with overcurrent, short circuit, earth fault protection on provided iron frame / CC foundation.	item877	1.00	Nos
30.07	Supplying and erecting PVC insulated PVC round sheathed 1.5 sq.mm (30 no. x 0.25 mm dia.) 3 core flexible multistranded copper Industrial cable for voltage grade up to 1.1 kV (35 Poles x 1.2 mtr = 42 m)	item878	45.00	m
30.08	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	item879	650.00	m
30.09	Providing and erecting galvanised 1000mm single arm sword type bracket with FRP dome and ball as per specification no. OH-PL/PBKT	item880	0.00	Nos
30.1	Providing and erecting galvanised 1000mm double arm sword type bracket with FRP dome and ball as per specification no. OH-PL/PBKT	item881	0.00	Nos
30.11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials testing and recording the results as per specification no. EA-EP	item882	35.00	Nos
30.12	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete.	item883	650.00	Mtr
30.13	Supplying, erecting & marking SPMCB 0.5A to 5A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	item884	35.00	Nos
31	Academic Building - LV SECTION- I (NETWORKING & TELEPHONE SYSTEM)			
31.01	Supplying & erecting HMS PVC conduit 25mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC (42 data Points X 2 Mtr = 84)	item885	84	m
31.02	Supplying and laying HMS PVC conduit FRLS grade 25 mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC. (175 for CCTV + 200 For Speaker)	item886	375	m
31.03	Supplying and erecting 25 mm dia. corrugated flexible polypropylene conduit	item887	30	m
31.04	Supplying and erecting PVC box trunking of size 50x16/20 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX.	item888	228	m
31.05	Supplying and erecting modular type T.V. socket single outlet , duly erected on provided plate and box with wiring connections complete.	item889	10	Nos
31.06	Supplying and erecting modular type telephone socket one gang with safety shutter, duly erected on provided plate and box with wiring connections complete. (3 in Hall + 1 Rec + 2 Sec + 3 in hall + 1 Rec + 2 in Hall + 1 Rec)	item890	13	Nos
31.07	Supplying and erecting modular type blanking plate one module , duly erected on provided plate & box.	item891	13	Nos
31.08	Supplying, erecting & terminating 2 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, nylon rip cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing-n-capping/conduit as per specification no. WG-TW	item892	480	m

Sl. No.	Item Description	Item Code / Make	Quantity	Units
31.09	Supplying, erecting & terminating 20 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, nylon rip cord & grey colour sheathed with FR PVC, confirming to ITD specification S/WS 113C laid in provided PVC casing-n-capping/conduit as per specification no. WG-TW (From residential to Academic Bldg)	item893	160	m
31.1	Supplying & erecting 0.5 mm dia, copper jumper wire as per specification No. WG-TW	item894	20	m
31.11	Supplying, erecting & terminating co-axial copper cable low voltage grade tri-shielded RG-11 as per specification no. WG-TW for CCTV	item895	0	m
31.12	Supplying, erecting & terminating 3 m HDMI cord low voltage grade minimum 4k compliant to be laid in provided conduits with male/female 19pin HDMI connectors complete. For CCTV Screen	item896	0	m
31.13	Supplying, erecting & commissioning 20 pairs FR junction box with moulded plastic enclosure as per specification no. WG-TW	item897	1	Nos
31.14	Supplying, installing, testing & commissioning push button telephone instrument desk top unit as per specification complete	item898	0	Nos
31.15	Supplying and installing cat-6 cable suitable for networking as per specification no. WG-COC/NC (538 for Data Point)	item899	538	m
31.16	Supplying and fixing 1 m 24 AWG multi stranded UTP patch cord with RJ-45 factory crimped connector of Cat 6 type , compliant ANSI/TIA-568.2-D standards in position as per specification no. WG-ELVC/PC	item900	0	m
31.17	Supplying, fixing, and configuring 24 ports + (4 SFP+) ports Managed Layer 2 switch of and web View/CLI, 6KV surge protection on ethernet port and console port for management as per specification complete.	item901	0	Nos
31.18	24 Port Managed Layer 3 Switch	item902	0	Nos
31.19	Supplying, fixing, and configuring broadband ADSL router with all accessories, on provided rack as per specification No. WG-NWC/ADSL	item903	0	Nos
31.2	Supplying and fixing tool-less IO (ethernet) flush/surface type in provided modular box as per specification no. WG-NAS/IO	item904	42	Nos
31.21	Supplying and fixing 24 port patch panel with tool-less keystone jacks in provided U Rack complete as per specification no. WG-NAS/PP	item905	0	Nos
31.22	Supplying and fixing Power Distribution Unit for networking rack comprises of 6/16A (6 Nos. sockets), 25 A modular MCB, appropriate rating fuse and indicator lamp, enclosed in black powder coated metal with necessary arrangement for fixing as per specification No. WG-NAS/RAK	item906	0	Nos
31.23	Supplying and fixing 6U wall mount rack (Dimension-DxWxH – 500x600x367 mm) as per specification no. WG-NAS/RAK	item907	0	Nos
31.24	Supplying and installing armoured single mode optical fibre cable with 6 fiber, core dia 50/125µm (OS1/OS2) 10/40 GBPS speed in provided underground HDPE pipe complete.	item908	160	m
31.25	Supplying and fixing 2 m Telephone patch cord of RJ11 type	item909	0	Nos
31.26	Supplying and plugging 3 m fibre patch cord LC-SC MM (50) OM3 LSZH duplex complete as per specification no. WG-COC/FPC	item910	2	Nos
31.27	Supplying, fixing, and configuring 10G Base -SR (SFP+) simplex MM transceiver erected in provided rack complete.	item911	2	Nos
31.28	Supplying and fixing 12 ports light guide unloaded interconnect unit, rack mounted type , with adapter panel for termination of optical fibre cables in provided U rack complete as per specification no. WG-NAS/ LIU	item912	2	Nos
31.29	Supplying and fixing SC/LC type multimode pigtails (OM3) for LIU to terminate OFC in LIU as per specification No. WG-NAS/LIU2	item913	12	Nos
32	Academic Building - LV SECTION- II (CCTV SYSTEM-ANALOGUE)			

Sl. No.	Item Description	Item Code / Make	Quantity	Units
32.01	Supply Installation, testing & commissioning of 2MP Analog HD Dome type Camera, 2.8 mm Fixed lens , IR-20mtr with power supply adaptor & required accessories.	item914	6	Nos
32.02	Supply Installation, testing & commissioning of 2MP Analog HD Bullet type Camera, 2.8 mm Fixed lens , IR-20mtr with power supply adaptor & required accessories.	item915	9	Nos
32.03	Supply Installation, testing & commissioning of 32 Channel, 1080P HD DVR (Digital Video Recorder) , Auto Adaptive HDCVI/AHD/TVI/CVBS/IP signals, Max 128Mbps Incoming Bandwidth, H.264+ / H.264 dual-stream video compression, HDMI / VGA Simultaneous Video Output, Support 2 SATA HDD up to 16TB, 2 USB Ports, with required accessories.	item916	1	Nos
32.04	Supplying, erecting & terminating co-axial copper cable low voltage grade tri-shielded RG-11 as per specification no. WG-TW for CCTV	item917	175	m
32.05	Supplying, erecting & terminating 3 m HDMI cord low voltage grade minimum 4k compliant to be laid in provided conduits with male/female 19pin HDMI connectors complete. For CCTV Screen	item918	1	m
32.06	Supplying & erecting of BNC Connector with required accessories.	item919	26	Nos
32.07	Supply Installation, testing & commissioning of 12VDC/5A SMPS Power supply for Camera	item920	2	Nos
32.08	Supplying, erecting, testing and commissioning of multistrand annealed bare copper conductor, PVC insulated 2C x 1.5 Square Metrem cable in provided trunking/conduit etc.	item921	175	m
32.09	Supplying & erecting 8 TB internal Surveillance HDD suitable for SATA Port of DVR/NVR, interface transfer rate 6 GB/S, maximum sustained transfer rate 210 MB/Sec to 213 MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 256, Load/Unload Cycle -3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS. RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDD	item922	2	Nos
32.1	Supplying & erecting 32" professional LED Monitor with 1920*1080 (Full HD) Display, suitable for 16 channel NVR and following features Brightness: minimum 250 Cd/m2 Contrast Ratio: minimum 1000:1 Viewing angle: 178/178 deg. Response time: maximum 8 ms Inputs: HDMI, VGA, BNC, USB, Audio In, Built-in speakers maximum 2 W, Suitable to operate on 100-240 V 50 Hz AC supply and 24/7 Duty Cycle duly erected on wall or table top with standard accessories like wall mount stand and wiring connections etc. complete as per specifications no. CCTV-MON	item923	1	Nos
33	Academic Building - LV SECTION- III (CONVENTIONAL FIRE ALARM SYSTEM)			
33.01	Supplying, erecting testing and commissioning manual call point (Pill box) with break glass, push button (resettable type) in metal enclosure complete as per specification no. FF-FAAS/MCP	item924	18	Nos
33.02	Supplying, erecting, testing and commissioning hooters having high (100dB @ 1m) and low (94dB @ 1m) volume setting, group addressing facility allowing multiple sounders to be activated with CRCA enclosure complete as per specification no. FF-FAAS/HTR	item925	18	Nos
33.03	Supplying, installing, testing and commissioning FR, XLPE armoured cable 2 core 1.5 sq.mm. copper conductor complete erected on wall/ ceiling complete as per specification no. CB-LT/CU	item926	480	m
33.04	Supplying, installing, testing and commissioning 8 Zone, local signal conventional control panel (LCP) with standard accessories complete as per specification no. FF-FAAS/LCP	item927	1	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
34	Academic Building - HVAC Part A			
34.01	Academic section : Supplying, installing, testing and commissioning 5 Star split type variable speed Inverter technology room Air conditioning unit 1.0 TR capacity having minimum ISEER value of 5.4, suitable to operate on 250V, 50 cycles, A.C. supply having 1 no of air handling unit Hi wall (throw shall be upto 16m with wide coverage area) / floor mounting type complete with refrigerant R410A / R32 and copper condenser and evaporators at position with smart control facility using Wifi on Mobile/Tablet/PC. Daikin FTKF35UV	item928	32	Nos
35	Academic Building - HVAC Part B - Section - 1 (Hiwall units)			
35.01	Supply and Installation of powder coated bracket stand (wall mounted / floor mounted / ceiling hung type) suitable for 1.0 TR split ac in appropriate manner with all required accessories complete as directed by Engineer in charge. includes new Copper piping with nitrile rubber Insulation, Drain piping in hard PVC with all fittings, supports and clamp, up to 3 mtr. lengths and extra copper piping and PVC drain pipe as per below mentioned items with all required accessories and drilling in walls complete. AC unit shall also be included copper flexible wire of 1.5 Square Metrem 4 core between IDU and ODU.	item929	32	Nos
35.02	Supply and Installation of copper piping (3/8"for suction and 1/4"discharge) of appropriate size in appropriate manner suitable for machines provided with all required accessories complete as directed by Engineer in charge.	item930	250	mtr
35.03	Supply and Installation hard PVC drain pipe of appropriate size in appropriate manner suitable for machines provided with all required accessories complete as directed by Engineer in charge. Pipe Dia.25mm with 6mm nitril rubberclass O insulation.	item931	350	mtr
36	Academic Building - HVAC Part B - Section - 2 (AC System)			
36.01	Supplying, installing, testing and commissioning of ONLY Ductable unit of capacity 11.0TR for the available at site fix speed "CARRIER" make ODU (Model No. 38LH-132GSC) with washable Pre filter, R410A gas and drier, expansion valve, etc. By making ODU good condition if required by contractor. (ODU's are available at site for inspection before quote submission)	item932	8	Nos
36.02	Supplying, installing, testing and commissioning of Cu piping (1 1/8"for suction and 5/8"discharge) for above mentioned Carrier make IDU and ODU of appropriate size with insulation and support system. (For 11TR fix speed AC system)	item933	80	mtr
36.03	Supplying, installing, testing and commissioning of Cu piping (7/8"for suction and 3/8"discharge) for above mentioned Carrier make IDU and ODU of appropriate size with insulation and support system. (For 8.5TR Inverter AC system)	item934	33	mtr
36.04	Supplying, installing, testing and commissioning of AC Ducting made out of 24G G.S.S. Sheets of having coating of 180GSM, factory fabricated only. Installed with necessary supporting system.	item935	271	Square Metretr
36.05	Supplying, installing, testing and commissioning of Class 'O' Nitril rubber insualtion of 19mm thickness for ducting.	item936	270	Square Metretr
36.06	Supplying, installing, testing and commissioning of acoustic insulation for air ducts with 25mm thick, 48 kg/cu.m fiber glass faced with RP tissue and covered with 26 SWG perforated aluminium sheets complete	item937	200	Square Metretr
36.07	Supplying, installing, testing and commissioning of Aluminium powder coated grilles of height 200mm and length 700mm, with 15 deg. angle all 4 side flanges with al VCD mounted.	item938	74	Nos
36.08	Supplying, installing, testing and commissioning of Flexible canvass connection of 11.0 TR / 8.5 TR IDU.	item939	10	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
36.09	Supplying, installing, testing and commissioning of Fresh Air System Inline Cabinet fans 600 CFM x 5 mm SP with washable pre filters complete with electric motor, drive mechanism, mounting isolaters, etc. (Sound level max 60 dBA from 1m) .	item940	7	Nos
36.1	Supplying, installing, testing and commissioning of Fresh Air System Inline Cabinet fans 400 CFM x 5 mm SP with washable pre filters complete with electric motor, drive mechanism, mounting isolaters, etc. (Sound level max 60 dBA from 1m) .	item941	2	Nos
36.11	Supply and Installation of powder coated bracket stand (ceiling hung type) suitable for cabinet fan in appropriate manner with all required accessories complete as directed by Engineer in charge.	item942	9	Nos
36.12	Supply and Installation of ODU stand (floor mounted type) suitable for 11 TR ductable ODU made of MS Channel 50x50x6mm HDGI coated in appropriate manner with all required accessories, (ODU size - 1200x600mm) (1stand = 22Kg)	item943	10	Nos
36.13	Supplying, installing, testing and commissioning of Inverter technology Ductable unit of capacity 8.5 TR with both IDU and ODU. The AC unit shall be comprising with washable Pre filter, R410A gas and drier, expansion valve, and required necessary accessories, etc.	item944	2	Nos
37	Academic Building - HVAC Part B - Section - 3 (Toilet Exhaust System)			
37.01	Providing and drilling core cuts in beams and columns complete with finishing to wall as directed by Engineer in charge as per site conditions	item945	0	Inches
37.02	Supplying, installing, testing and commissioning of Toilet Exhaust Air System Inline Circular fans 800 CFM x 15 mm SP (Sound level max 60 dBA from 1m)	item946	6	Nos
37.03	Supplying, installing, testing and commissioning of Aluminium flexible pipes Dia. 100mm for Disc valve and ducting connection for toilet exhaust with necessary accessories as clamos, tapes, etc as shown on layouts.	item947	48	mtr
37.04	Supplying, installing, testing and commissioning of ABS material Disc Valves for Toilet Exhaust Air System of Dia. 125mm, as shown on layout.	item948	96	Nos
37.05	Supplying, installing, testing and commissioning of Toilet Exhaust Air Ducting made out of 24G G.S.S. Sheets of having coating of 180GSM, factory fabricated only. Installed with necessary supporting system.	item949	150	Square Metretr
37.06	Supplying, installing, testing and commissioning of Under deck insulation with 30mm thk PUF panels with framing and wire mesh arrangements for exposed roof area as per site.	item950	0	Square Metretr
38	Academic Building - HVAC Part C - Comprehensive mentainance			
38.01	From second year to fifth year (4 years)	item951	32	Nos
38.02	From Sixth year to Tenth year (5 years)	item952	32	Nos
39	Academic Building - Fire Fighting			
39.01	Supplying, installation, testing and commissioning of booster fire pump [BP] suitable for water discharge of 450 LPM at 35 m head driven by electric motor 415 volts, 3 phase 50 Hz, AC supply of 5.5 kW or of suitable kW capacity for manual/automatic operation and consisting of following : (a) Horizontal/vertical type, single/multi stage, centrifugal casing pump of cast iron body & bronze/CI impeller with stainless steel shaft (SS410 grade), mechanical seal conforming to IS 1520. (b) Squirrel cage induction motor, TEFC, synchronous speed 3000 RPM, suitable for operation with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (c) M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required. (d) Erected on provided suitable size cement concrete foundation duly plastered with anti vibration pads with perfect aligning, proper levelling complete pump set with accessories duly painted with two coats of synthetic enamel paint of fire red colour over a coat of primer (ISC code 536 as per IS 2932 of 2003) complete, as per specification no. FF-MEP/DP	item953	1.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
39.02	for 5.5/ 7.5 kW centrifugal type booster pump 1no (1working), add Rs.....	item954	1.00	Nos
39.03	Supplying & erecting D.O.L Starter suitable for 415 V, 3 phase 50 cycles with no volt coil and overload element with necessary materials and connected to supply up to 7.5 H.P.	item955	1.00	Nos
39.04	Supplying and erecting G.I. pipe 'C' class ERW 100 mm dia with necessary fittings complete as per specification no. FF-PP	item956	140.00	m
39.05	Supplying and erecting 100 mm dia Cast Iron end line strainer of Y-type flanged end pattern, PN16 pressure rating, SS screen, end connection with Flanged / Screwed / Socket Weld / Butt Weld End etc with standard OAR (open area Ratio) for positive suction complete as per specification no. FF-VL/ELS	item957	1.00	Nos
39.06	Supplying and erecting 100 mm dia. cast iron double flange sluice valve complete with PN16 pressure rating, as per specification no. FF-VL/SV	item958	1.00	Nos
39.07	Supplying and erecting 100 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF-VL/BFV	item959	10.00	Nos
39.08	Supplying and erecting 100 mm dia cast iron double flange NRV complete with PN16 pressure rating, as per specification no. FF-VL/NRV	item960	1.00	Nos
39.09	Supplying and erecting 25 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV	item961	10.00	Nos
39.1	Supplying and erecting gun metal single outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV	item962	12.00	Nos
39.11	Supplying and installing wall mounting swinging hose reel drum fitted with 19 mm dia. 30m long high pressure polypropylene (Polyhose) along with necessary accessories complete as per specification no. FF-FFA/HV	item963	12.00	Nos
39.12	Supplying and erecting 63mm dia, reinforced rubber lined (R.R.L.) hose pipe, 15m in length, fitted with necessary accessories complete as per specification no. FF-FFA/RRL	item964	24.00	Nos
39.13	Supplying and erecting stainless steel branch pipe 63 mm dia fitted with 20 mm dia detachable hexagonal nozzle complete as per specifications no. FF-FFA/NZ	item965	12.00	Nos
39.14	Supplying and erecting fire brigade header (Siamese connection)of 150 mm dia, for supplying water in fire tank complete as per specification no. FF-FA/FMC	item966	1.00	Nos
39.15	Supplying and erecting 100 mm dia. pressure gauge , 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm dia. pad cock valve, erected with provided G.I. pipe, elbow etc. complete as per specification no. FF-FFA/PG	item967	1.00	Nos
39.16	Supplying and erecting 12/15 mm dia pressure switch with provided isolation valve, G.I. nipple, elbow, etc complete as per specification no. FF-FFA/PS	item968	2.00	Nos
39.17	Supplying and erecting M.S./CRCA cabinet for housing Fire Brigade / SIEMESE connections (size 1250 x 400 x 300 mm.) made from 16 SWG sheet and angle iron 25 mm. x 25 mm. x 4 mm. having front doors with viewing glass (8" x 6") and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted in post box red colour(Code 538 of IS 5)	item969	12.00	Nos
39.18	Supplying, erecting, testing and commissioning vane type water flow detector 100 mm dia. with 1) Visual switch activation 2) Rugged switch assembly 3) Heavy duty aluminium pipe saddles 4)Durable metal enclosure 5) Steel U bolts for secure mounting 6) Two SPDT (Single pole double track) synchronised switches 7) serviceable without draining pipes.	item970	1.00	Nos
39.19	Supplying and erecting fire resistant mortar (20 kg) with fire resistance class S90 as per National Electrical Code (NEC) SP30-2011 suitable to seal the openings of all kinds of cables, pipes and cable support system in steel, aluminium and plastic profiles (except hollow core conductors). The residual openings shall be closed with filler, as per specification no FF-FRM.	item971	2.00	Job

Sl. No.	Item Description	Item Code / Make	Quantity	Units
39.2	Supplying & erecting Carbon Dioxide (CO2) fire extinguisher of 4.5 kg. capacity cartridge type conform to IS 2878 /15683 complete erected with necessary clamp made from 50 x 6 mm. M. S. flat with nut & bolts routed in wall complete.	item972	18.00	Nos
39.21	Supplying, installing, testing, and commissioning of portable fire extinguishers of ABC dry powder stored pressure type fire extinguishers of 6 Kgs.capacity Complete with standard discharge valve with tube, CI bracket for wall mounting etc. complete as per confirming to IS : 15683 complete all the work up to the satisfaction of the Engineer in charge.	item973	30.00	Nos
39.22	Providing and fixing in position statutory Signage's made out of 3mm thick opaque PVC foam board, machine cut, non reflective, auto glow (type & Make), with silicon adhesive for safe evacuation of occupants in case of emergency. Sign indicators should be provided at prominent places as per Fire Provisional NOC (As per - IS-9457, IS-12349, IS-12407) complete all the work up to the satisfaction of the Engineer in	item974	40.00	Sq in
39.23	Providing, laying, testing & commissioning of 100mm dia resilient rubber neoprene lined single arch Vibration eliminators (Expansion bellows) suitable for Design Pressure 16 kg/sq cm and test pressure 24 kg/sq cm. complete all the work up to the satisfaction of the Engineer in	item975	1.00	Nos
39.24	Providing Floor mounting stand for keeping 4 Nos. of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of silver paint complete.	item976	2.00	Set
40	Academic Building - Plumbing External Sewerage System			
40.01	Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres and lifts as below, stacking and spreading as directed, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. (BdA-1/259) Lift 0 to 1.5 M Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum.()	item977	321.10	Cum
40.02	Providing & laying including all necessary excavation in all strata, supply of labour for lowering, jointing RCC NP 2 class pipes conforming to IS:458 from first manhole upto STP including necessary ramming of subgrade after excavation to achieve a designed gradient & alignment by site rails & boning rods for proper leveling & making the joints water-tight with cement mortar 1:1 joints hemp yarn including 6" thick 1:3:6 C.C. bedding & encasement on all sides throughout length, excavation in all types of soils, refilling, curing etc. complete as per directions of engineer-in-charge including dewatering wherever necessary. 150mm	item978	214.5	Rmt
40.03	Providing & laying including all necessary excavation in all strata, supply of labour for lowering, jointing RCC NP 2 class pipes conforming to IS:458 from first manhole upto STP including necessary ramming of subgrade after excavation to achieve a designed gradient & alignment by site rails & boning rods for proper leveling & making the joints water-tight with cement mortar 1:1 joints hemp yarn including 6" thick 1:3:6 C.C. bedding & encasement on all sides throughout length, excavation in all types of soils, refilling, curing etc. complete as per directions of engineer-in-charge including dewatering wherever necessary. 200mm	item979	242	Rmt

Sl. No.	Item Description	Item Code / Make	Quantity	Units
40.04	Providing & laying including all necessary excavation in all strata, supply of labour for lowering, jointing RCC NP 2 class pipes conforming to IS:458 from first manhole upto STP including necessary ramming of subgrade after excavation to achieve a designed gradient & alignment by site rails & boning rods for proper leveling & making the joints water-tight with cement mortar 1:1 joints hemp yarn including 6" thick 1:3:6 C.C. bedding & encasement on all sides throughout length, excavation in all types of soils, refilling, curing etc. complete as per directions of engineer-in-charge including dewatering wherever necessary. 250mm	item980	104.5	Rmt
40.05	Constructing Gully Traps/ Inspection chamber with precast steel fibre reinforced concrete frame and covers (S.F.R.C. frame and covers) Providing and constructing B.B. masonry in 230 X 100 X 75 mm brick inspection chamber with 100mmthick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion half round RCC pipe of required dia, precast S.F.R.C. frame and cover heavy duty 225 kg., plastering both inside and outside in CM 1:3 with cement finish,, 100 mm thick PCC 1:2:4 coping on B.B. masonry etc. complete as directed by Engineer-in-charge. Note : i) Wall thickness : 0.23 M for depth of 1.2 M and 0.35 M for balance depth exceeding 1.2 M.	item981	23.00	Nos
40.06	Constructing Gully Traps/ Inspection chamber with precast steel fibre reinforced concrete frame and covers (S.F.R.C. frame and covers) Providing and constructing B.B. masonry in 230 X 100 X 75 mm brick inspection chamber with 100mmthick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion half round RCC pipe of required dia, precast S.F.R.C. frame and cover heavy duty 225 kg., plastering both inside and outside in CM 1:3 with cement finish,, 100 mm thick PCC 1:2:4 coping on B.B. masonry etc. complete as directed by Engineer-in-charge. Note : i) Wall thickness : 0.23 M for depth of 1.2 M and 0.35 M for balance depth exceeding 1.2 M. 600 x 600 mm (upto 0.9 m depth)	item982	31.00	Nos
40.07	Providing and constructing on sewer line, B. B. masonry circular manhole with concentric cone 1.2 M dia. at bottom and 0.5 M dia. at top and upto a depth of 2.00 M with 23 cm. thick in 230 X 100 X 75 mm brick masonry in CM 1:5 proportion plastering both inside and outside in CM 1:3 with cement finish, half round RCC pipe of required dia excluding excavation including PCC1:3:6 in bed 100 mm thick , haunches and channels in 1:2:4 proportion concrete, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg., 100 mm thick 1:2:4 coping on the top of the masonry & below frame including providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. heavy duty 225 kg. etc. complete as directed by Engineer-in-charge. Note : The rate of this item is inclusive of hydraulic testing of chamber. 560 MM Dia Circular Chamber (Above 1.2 m depth)	item983	12.00	Nos
41	Academic Building - Plumbing EXTERNAL STORM WATER DRAINAGE			
41.01	Providing & laying including all necessary excavation in all strata, supply of labour for lowering, jointing RCC NP 2 class pipes conforming to IS:458 from first manhole upto munciple drain including necessary ramming of subgrade after excavation to achieve a designed gradient & alignment by site rails & boning rods for proper leveling & making the joints water-tight with cement mortar 1:1 joints hemp yarn including 6" thick 1:3:6 C.C. bedding & encasement on all sides throughout length, excavation in all types of soils, refilling, curing etc. complete as per directions of engineer-in-charge including dewatering wherever necessary. 200mm	item984	214.50	Rmt

Sl. No.	Item Description	Item Code / Make	Quantity	Units
41.02	Providing & laying including all necessary excavation in all strata, supply of labour for lowering, jointing RCC NP 2 class pipes conforming to IS:458 from first manhole upto munciple drain including necessary ramming of subgrade after excavation to achieve a designed gradient & alignment by site rails & boning rods for proper leveling & making the joints water-tight with cement mortor 1:1 joints hemp yarn including 6" thick 1:3:6 C.C. bedding & encasement on all sides throughout length, excavation in all types of soils, refilling, curing etc. complete as per directions of engineer-in-charge including dewatering wherever necessary. 250mm	item985	198.00	Rmt
41.03	Providing & laying including all necessary excavation in all strata, supply of labour for lowering, jointing RCC NP 2 class pipes conforming to IS:458 from first manhole upto munciple drain including necessary ramming of subgrade after excavation to achieve a designed gradient & alignment by site rails & boning rods for proper leveling & making the joints water-tight with cement mortor 1:1 joints hemp yarn including 6" thick 1:3:6 C.C. bedding & encasement on all sides throughout length, excavation in all types of soils, refilling, curing etc. complete as per directions of engineer-in-charge including dewatering wherever necessary. 300mm	item986	88.00	Rmt
41.04	Providing and laying cast in situ Brick Masonry gutter/ drain with following specification along roads / courtyards including excavation, P.C.C. & fixing of RCC perforated cover (heavy duty), over the drain in proper line and alignment, including back fillings, dewatering etc. complete including: (depth varies from 450 mm to 2000 mm) For External Surface Drain 300mm Wide	item987	22.00	Rmt
41.05	Constructing catch pits with precast steel fibre reinforced concrete frame and covers (S.F.R.C. frame and covers) Providing and constructing B.B. masonry in 230 X 100 X 75 mm brick inspection chamber with 100mmthick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion half round RCC pipe of required dia, precast S.F.R.C. frame and cover heavy duty 225 kg., plastering both inside and outside in CM 1:3 with cement finish,, 100 mm thick PCC 1:2:4 coping on B.B. masonry etc. complete as directed by Engineer-in-charge. Note : i) Wall thickness : 0.23 M for depth of 1.2 M and 0.35 M for balance depth exceeding 1.2 M. 450 x 600 mm	item988	6.00	Nos
41.06	Constructing catch pits with precast steel fibre reinforced concrete frame and covers (S.F.R.C. frame and covers) Providing and constructing B.B. masonry in 230 X 100 X 75 mm brick inspection chamber with 100mmthick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion half round RCC pipe of required dia, precast S.F.R.C. frame and cover heavy duty 225 kg., plastering both inside and outside in CM 1:3 with cement finish,, 100 mm thick PCC 1:2:4 coping on B.B. masonry etc. complete as directed by Engineer-in-charge. Note : i) Wall thickness : 0.23 M for depth of 1.2 M and 0.35 M for balance depth exceeding 1.2 M. 600 x 600 mm	item989	23.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
41.07	<p>Providing and constructing on sewer line, B. B. masonry circular manhole with concentric cone 1.2 M dia. at bottom and 0.5 M dia. at top and upto a depth of 2.00 M with 23 cm. thick in 230 X 100 X 75 mm brick masonry in CM 1:5 proportion plastering both inside and outside in CM 1:3 with cement finish, half round RCC pipe of required dia excluding excavation including PCC1:3:6 in bed 100 mm thick , haunches and channels in 1:2:4 proportion concrete, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg., 100 mm thick 1:2:4 coping on the top of the masonry & below frame including providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. heavy duty 225 kg. etc. complete as directed by Engineer-in-charge.</p> <p>Note : The rate of this item is inclusive of hydraulic testing of chamber.</p> <p>560 MM Dia Circular Chamber (Above 1.2 m depth)</p>	item990	7.00	Nos
42	Academic Building - External Water Supply			
42.01	<p>Providing & Fixing Wafer Type Butterfly Valves with Body of Cast Iron, Disc of Cast Iron/Stainless Steel and body lining of EPDM including jointing with Galvanised Iron pipes including hydraulic testing etc. complete as directed by the engineer-in-charge.</p> <p>100mm</p>	item991	2.00	Nos
42.02	<p>Providing & Fixing Wafer Type Butterfly Valves with Body of Cast Iron, Disc of Cast Iron/Stainless Steel and body lining of EPDM including jointing with Galvanised Iron pipes including hydraulic testing etc. complete as directed by the engineer-in-charge.</p> <p>65mm</p>	item992	1.00	Nos
42.03	<p>Supply, installation, testing & commissioning of 'C' class G.I. pipes of to confirm IS 1239 upto dia 150mm malleable specials extruded type, such as Reducers, elbows, Tees, flanges etc... and necessary puddle flanges for tanks. The pipes shall be painted, after total removal of rust, with One coat each of Epoxy primer & Paint using approved type, Galvanized, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, Including cutting, Welding, fixing in / on walls, Floors & ceiling by using the supports etc, as per drawings. The quoted rate shall also include for chasing / chipping walls, making holes in walls / floor and making them good with non shrink filler material / RCC/ blocks as required and finished in cement mortar etc. complete. (For Raising main,Municipal & Tanker Inlet)</p> <p>65mm</p>	item993	330.00	Rmt
42.04	<p>Supply, installation, testing & commissioning of 'C' class G.I. pipes of to confirm IS 1239 upto dia 150mm malleable specials extruded type, such as Reducers, elbows, Tees, flanges etc... and necessary puddle flanges for tanks. The pipes shall be painted, after total removal of rust, with One coat each of Epoxy primer & Paint using approved type, Galvanized, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, Including cutting, Welding, fixing in / on walls, Floors & ceiling by using the supports etc, as per drawings. The quoted rate shall also include for chasing / chipping walls, making holes in walls / floor and making them good with non shrink filler material / RCC/ blocks as required and finished in cement mortar etc. complete. (For Raising main,Municipal & Tanker Inlet)</p> <p>32mm</p>	item994	130.00	Rmt
42.05	<p>Providing & Fixing of water meter with strainer as per approved make including supply of required specials & isolation valves, hemp yarn etc complete to make it water tight and providing locking arrangement to the same etc. complete as per directions of engineer-in-charge.</p> <p>100mm dia</p>	item995	1.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
42.06	Construction of B.B. Masonry chamber for water meter of following size including excavation, cement concrete bedding of 150 mm thick and plastering with cement mortar 1:3 from inside and outside and fixing air tight RCC covers (heavy duty) including curing etc.complete as per direction of engineer-in-charge. 1200mm x 750mm	item996	1.00	Nos
43	Academic Building - UGT SLEEVES & MANHOLES			
43.01	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 150mm	item997	4.00	Nos
43.02	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 100mm	item998	2.00	Nos
43.03	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 65mm	item999	2.00	Nos
43.04	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on both end 32mm	item1000	6.00	Nos
43.05	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 100mm	item1001	3.00	Nos
43.06	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 65mm	item1002	3.00	Nos
43.07	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 50mm	item1003	6.00	Nos
43.08	Supply & installation of Ductile Iron Manhole Covers with frame,& openable hinge of 600X600 Dia. (Light Duty) for UGR including all necessary supports, grouting of the frame in RCC, making arrangements for recessed locking of the Manhole cover etc. complete as directed by engineer-in-charge.	item1004	6.00	Nos
44	Academic Building - Plumbing PUMPS AND ANCIALLARY ITEMS			

Sl. No.	Item Description	Item Code / Make	Quantity	Units
44.01	<p>Supply, installation, testing and commissioning of Skid mounted Hydro-pneumatic system of Vertical in line pump set with Variable Frequency Drive .</p> <p>Domestic Water Supply System For Building -330 lpm, Head - 50 meter (Approx. 5hp /pump)</p> <p>Pump Qty - 3 (2working +1 stand by / Duty Assist) Siemens switch gear make control panel along with PLC, PID Controller with all necessary cascade system automation, Power & Control MCB, MPCB , Over load \ Under load, SPP \ RPP, Dry run and all necessary pump & voltage protection, Indication lamp, Digital Pressure indicator cum controller. Danfoss make Pressure Transmitter & Pressure switch, Gauge, Pressure Tank etc. Skid for pumpset with Hot deep Galvnised Suction & Delivery Header Plumbing Accessories along with Ball Valve, NRV, Y type Strainer Polycab make power cable for pumpset & Control cable float switch sensor , control cable for sensor etc complete as per direction of Engineer-in-charge. Pumpset & Control Pannel shall be company assembled factory fitted system with test certificate should be submitted. Vendor to submit performance curves and technical catalog of the proposed model for review & approval by consultants.</p> <p>Note: Contractor to note that the suction header is required to have inlet connection from the Puddle Flange @ water tanks and to the pump suction. Provision of delivery header is required to have outlet connection from the pumps. Suitable outlet flanges from the delivery manifold / header shall be provided as required.</p>	item1005	1.00	Set
45	Academic Building - Plumbing Rain Water Harvesting System			
45.01	<p>Providing and constructing recharge ring well of required dia with casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, including excavation and stacking the soil and disposing as per the instructions of engineerincharge, all complete as per direction of Engineer in-charge, upto 90 metre depth below ground level. Filling with gravels and boulders from outside of the circumference of the collar of 1.2m dia upto 6m so as to allow infiltration of supplied water from inside of the well through the gap between the collars to the ground water aquifer</p> <p>Supplying & fixing 40 mm thick DI heavy Rain water grating over storm water channel of heavy duty (b) 600 x 450 MM (450wide)</p>	item1006	4.00	Nos
46	Academic Building - Internal Plumbing SANITARY & CP FITTINGS			
46.01	<p>Providing and fixing white european type wall-hung, Size 380mm x 650mm x 730mm with wall hung coupled flush tank with float operation auto filling, rigid flush water pipe having flow rate upto 6.0 Litr/Minute of Jaquar or equivalent make including PVC soil pipe, vent pipe upto outside face of wall, 100mm dia PVC plug bend inlet pipe all fittings, MS PC chair bucket with SS rack bolts cutting &making good walls, floors etc as directed by Engineer incharge .(Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.)[necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, making good the damaged surface, testing etc. complete.]</p>	item1007	21.00	Nos
46.02	<p>Providing and fixing White glazed with bottle trap earthenware Wash Hand Basin of 55x40 cm size including cold water piller taps, brackets, rubber plugs and brass chain, angular stop tap, chromium plate bottle trap and necessary pipe connections including UPAC waste pipe and trap upto the outside face of the wall, making good the damaged surface, testing etc. complete.</p>	item1008	24.00	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
46.03	Providing and fixing white glazed urinal with Pressmatic auto closing valve having flow rate up to 4.0 Litr/Minute of Jaquar/Cera/Hindware /Perryware or equivalent make with P.V.C. waste pipe with fitting arrangement etc.complete as directed by Engineer in charge.(Make shall conform to manufacturer's Green product and shall got approved from the Engineer In Charge.)	item1009	27.00	Nos
46.04	Providing and fixing Hand shower (health faucet) with 8mm dia. 1m long flexible tube having wall hook with approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.(SSR 21-22)	item1010	21.00	Nos
46.05	Providing and fixing stainless steel sink of size 600 x 510 x200 mm includng coupling, outlet pipe, elbow and other necessary fitting, finishing etc. complete.	item1011	3.00	Nos
46.06	Providing and fixing C.P. sink cock with raised J" shaped swinging casted spout of approved make including necessary sockets/ union nut etc. complete."	item1012	3.00	Nos
46.07	Providing and fixing C.P. 2 Way BIB cock with wall flange of approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge.	item1013	21.00	Nos
46.08	Providing and fixing C.P. BIB cock with wall flange of approved make including necessary sockets/ union nut etc. complete as directed by Engineer in charge. (For wash machine & Utility).	item1014	3.00	Nos
46.09	Providing and fixing C.P. Angular stop clock with wall flange of approved make continental ncluding necessary sockets/union nut etc. complete.	item1015	3.00	Nos
46.1	Providing and Fixing toilet set for differently Abled persons consist of Floor Mounted white vitreous china water Closet including 6 litre capacity white vitreous china flushing Cistern with raised soft-push button, white vitreous china wash basin of size 46 x 36 cm and one no SS 304 hinged rail 76 cms & three no SS 304of (Grab Bar) 60 cms all including cutting and making good the walls and floors wherever required ,seat cover, cistern & wash basin fittings,nuts, bolts and gasket etc complete as per the direction of Engineer-In-charge.	item1016	6.00	Nos
47	Academic Building - Internal Plumbing INTERNAL DRAINAGE (SOIL, WASTE & VENT)			
47.01	Providing, laying and fixing P.V.C. pipe of 40mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trenchfilling etc. complete. Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	item1017	83.16	Rmt
47.02	Providing, laying and fixing P.V.C. pipe of 50mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trenchfilling etc. complete. Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	item1018	1.00	Rmt
47.03	Providing, laying and fixing P.V.C. pipe of 75mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trenchfilling etc. complete. Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	item1019	90.75	Rmt
47.04	Providing, laying and fixing P.V.C. pipe of 110mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trenchfilling etc. complete. Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	item1020	49.50	Rmt

Sl. No.	Item Description	Item Code / Make	Quantity	Units
47.05	Supply, installation, testing & commissioning of PVC SWR (Grade B) pipe as per IS 13592, of approved make vertically in shaft , necessary cutting to the required length including short pieces, assorted fittings such as plain tee and bend single/ double Y, offsets etc. as per IS 14735, jointing with solvent cement & rubber rings, clamping on wall using PVC pipe clips and giving water-tightness test for the pipes along with making holes in walls/floor grooving and redoing the same and brick support etc. complete as per directions of engineer-in-charge. 50mm dia (Grade B) Vent Pipe	item1021	1.00	Rmt
47.06	Supply, installation, testing & commissioning of PVC SWR (Grade B) pipe as per IS 13592, of approved make vertically in shaft , necessary cutting to the required length including short pieces, assorted fittings such as plain tee and bend single/ double Y, offsets etc. as per IS 14735, jointing with solvent cement & rubber rings, clamping on wall using PVC pipe clips and giving water-tightness test for the pipes along with making holes in walls/floor grooving and redoing the same and brick support etc. complete as per directions of engineer-in-charge. 75mm dia (Grade B)	item1022	1.00	Rmt
47.07	Supply, installation, testing & commissioning of PVC SWR (Grade B) pipe as per IS 13592, of approved make vertically in shaft , necessary cutting to the required length including short pieces, assorted fittings such as plain tee and bend single/ double Y, offsets etc. as per IS 14735, jointing with solvent cement & rubber rings, clamping on wall using PVC pipe clips and giving water-tightness test for the pipes along with making holes in walls/floor grooving and redoing the same and brick support etc. complete as per directions of engineer-in-charge. 110mm dia (Grade B)	item1023	379.50	Rmt
47.08	Supply, installation, testing & commissioning of PVC SWR (Grade B) Soil or Waste pipe as per IS 13592 for Pipe Diversion with necessary cutting to be done to the required length including short pieces, assorted fittings such as plug/plain tee, bend, single/double Y, offsets etc. as per IS 14735, jointing with solvent cement & rubber rings, clamping on wall using PVC pipe clips and giving water-tightness test for the pipes along with making holes in walls/floor grooving and redoing the same and brick support etc. complete as per directions of engineer-in-charge. (Pipe Diversion @ Ground & Basement Ceiling) 110mm dia (Grade B)	item1024	99.00	Rmt
47.09	Providing and fixing 8 cm rigid PVC Nahani trap including PVC grating ,bend, connecting piece of UPVC pipe up to the outside face of wall ,making the good damaged surface and testing etc. complete (Prior approval of sample and brand by Ex. Engr. is necessary before use)	item1025	27.00	Nos
47.1	Supply, installation, testing & commissioning of PVC Multi floor Trap as per IS 14735, with material and labour etc. complete as per directions of engineer-in-charge.	item1026	27.00	Nos
48	Academic Building - Internal Plumbing INTERNAL STORM WATER			
48.01	Providing and fixing P.V.C. Rain water pipes of 160mm outer diameter and having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and One Number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete.	item1027	79.20	Nos

Sl. No.	Item Description	Item Code / Make	Quantity	Units
48.02	Providing and fixing P.V.C. Rain water pipes of 110mm outer diameter and having wall thickness of 2.2 to 2.7 mm conforming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and One Number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete.	item1028	1.00	Nos
48.03	Providing and fixing C.I. vertical jalli of the specified size at the collection point of RWP on terrace to be with material and labour including provision of roof flashing of 6mm thickness as per details etc. complete as per directions of engineer-in-charge. (MATERIAL SSR+ LABOUR SSR)	item1029	4.00	Nos
48.04	Providing and fixing in position UPVC ultraviolet stabilized 110mm outer diameter cowl dome conforming to I.S.-4985 including making joints with solvent cement etc. complete	item1030	20.00	Nos
49	Academic Building - Internal Plumbing INTERNAL WATER SUPPLY			
49.01	Supply, installation, testing & commissioning of exposed on wall faces, floor, shaft & Terrace following sizes of Lead Free Solvent Weld Schedule 40 CPVC Pipes conforming to ASTM D 1785 for water supply including provision of all fittings such as elbows, Tees, unions, reducers etc. as per ASTM D 2467, cutting of pipes, jointing with solvent cement joints as per manufacturers specifications, hydraulic testing, including holes in walls, slabs etc. provision of GI Brackets & Clamps and making good the damages by bringing them to good original condition, etc. complete as directed by the engineer-in-charge. 65 mm dia	item1031	58.30	Rmt
49.02	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 50 mm dia	item1032	22.44	Rmt
49.03	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 40 mm dia	item1033	9.90	Rmt
49.04	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 32 mm dia	item1034	49.50	Rmt
49.05	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 25 mm dia	item1035	49.50	Rmt
49.06	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 20 mm dia	item1036	104.50	Rmt

Sl. No.	Item Description	Item Code / Make	Quantity	Units
49.07	Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. 15 mm dia	item1037	214.50	Rmt
49.08	Providing and fixing of CPVC Ball Stop cocks. 50 mm dia	item1038	2.00	Nos
49.09	Providing and fixing of CPVC Ball Stop cocks. 40 mm dia	item1039	1.00	Nos
49.1	Providing and fixing of CPVC Ball Stop cocks. 32 mm dia	item1040	7.00	Nos
49.11	Providing and fixing of CPVC Ball Stop cocks. 25 mm dia	item1041	12.00	Nos
49.12	Providing and fixing of CPVC Ball Stop cocks. 20 mm dia	item1042	27.00	Nos
49.13	Providing and fixing of CPVC Ball Stop cocks. 15 mm dia	item1043	42.00	Nos
49.14	Supplying and erecting required dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF-VL/BFV 65 mm dia	item1044	2.00	Nos
49.15	Supplying and erecting 20/25mm dia gun metal air release cock, with necessary G.I. coupling to be fitted on top of air vessel or on wet riser complete as per specification no. FF-FFA/ARV	item1045	2.00	Nos
50	Academic Building - Internal Plumbing OHT SLEEVES & MANHOLES			
50.01	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 100mm	item1046	1.00	Nos
50.02	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 65mm	item1047	2.00	Nos
50.03	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 50mm	item1048	2.00	Nos
50.04	Supply & Fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Flange on one end 32mm	item1049	1.00	Nos
50.05	Supply & installation of Ductile Iron Manhole Covers with frame,& openable hinge of 600mm Dia. (Light Duty) for UGR including all necessary supports, grouting of the frame in RCC, making arrangements for recessed locking of the Manhole cover etc. complete as directed by engineer-in-charge. (MATREIAL SSR + LABOUR SSR)	item1050	4.00	Nos
50.06	Providing and fixing 40 mm. dia Ball cock medium type with PVC float including sockets and necessary fittings and tested as per municipal requirements etc. complete. Note: Contractor to note that the suction header is required to have inlet connection from the Puddle Flange @ water tanks and to the pump suction. Provision of delivery header is required to have outlet connection from the pumps. Suitable outlet flanges from the delivery manifold / header shall be provided as required.	item1051	1.00	Nos