

Tender for Construction of CGG –Academic Building at Baner Yashada Pune

Name of Work:-					
Construction of Academic Building For CGG at YASHADA, Pune					
SCHEDULE-A					
Schedule showing (approximately) the materials to be supplied from the departmental store for work contracted to be executed and preliminary and ancillary works and the rates at which they are to be charged for.					
Sr No.	Particulars	Quantity	Unit	Rate of recovery	Place of delivery
NILL					
Note:- 1) All the required materials for the work has to be brought by the contractor at his own cost.					

Tender for Construction of CGG –Academic Building at Baner Yashada Pune

Name of Work:-					
Construction of Academic Building For CGG at YASHADA, Pune -					
SCHEDULE-C & SPECIFICATIONS					
BOQ No.	Description of Item	Reference No.	Standard Specification	Additional Specifications	
1.1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300metresm, 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 150metresilimetres in thickness. (Item No. 2.09)	MORTH 201	MORTH 201		
1.2	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to 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 upto 1.5 metres) By Mechanical Means (Item No. 21.02)	BDA 1	Bd.A.1 Page Number 259		

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<p>1.3</p>	<p>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 3.0metres) By Manual Means (Item No. 21.07)</p>	<p>BDA 2</p>	<p>Bd.A.1 Page No.259</p>		
<p>1.4</p>	<p>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)</p>	<p>BDA 6</p>	<p>Bd.A.6 Page Number 260</p>		
<p>1.5</p>	<p>Providing preconstructional antitermite treatment as per Indian Standards 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)</p>	<p>BDW</p>	<p>As directed by Engineer in charge.</p>		
<p>1.6</p>	<p>Providing preconstructional antitermite treatment as per Indian Standards 6313(Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion</p>	<p>BDW</p>	<p>As directed by Engineer in charge.</p>		

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	concentrate at 1.0 percent of clorophyrifos per square metre of surface area covering ten years guarantee on bond paper. (Item No. 21.24)				
1.7	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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 24.01)	BDE 1	Bd. E. 1 Page Number 287		

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<p>1.8</p>	<p>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 PROFIndian Standards Rebar Software & the report to be submitted to the project manager/design engineer for approval. Scanning before drilling to be done to avoid hitting existing rebars. HY 200-25milimetres dia, 500 to 1500metresilimetres depth (Item No. 53.13)</p>	<p>BDC 2</p>	<p>Bd.C.2 Page No. 275</p>		
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<p>1.9</p>	<p>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 Indian Standards O 4042: 1999, ingenious expansion sleeve M10 and M16(galvanized) and M8, M12, M20, M24-Stainless Steel(EN Indian Standards O 4042: 1999), a nut of Strength Class 8(EN Indian Standards O 20898-2:2012) and a galvanized washer(EN Indian Standards O 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 PROIndian Standards 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</p>	<p>BDC 2</p>	<p>Bd.C.2 Page No. 275</p>		
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	<p>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 milimetres depth (Item No. 53.24)</p>				
1.10	<p>Providing and fixing 25milimetres diameter steel anchor dowel in hard rock including drilling hole of 32milimetres 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)</p>	BR 3G	As directed by Engineer in charge.		

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<p>1.11</p>	<p>Providing and laying Cast in situ/Exposed Ready Mix form finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete work in foundations like raft, strip foundations, grillage and footings of R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.15)</p>	<p>BDF 3</p>	<p>Bd.F.3 Page Number 298 and B.7, Page Number38</p>		
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<p>1.12</p>	<p>Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.35, Departmental)</p>	<p>BDF 5</p>	<p>Bd.F.5 Page Number 300 and B.7, Page.Number 38</p>		
<p>1.13</p>	<p>... (Item No. 25.35, First Floor)</p>	<p>BDF 5</p>	<p>Bd.F.5 Page Number 300 and B.7, Page.Number 38</p>		
<p>1.14</p>	<p>... (Item No. 25.35, Second Floor)</p>	<p>BDF 5</p>	<p>Bd.F.5 Page Number 300 and B.7, Page.Number 38</p>		

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<p>1.15</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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</p>				
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<p>1.16</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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</p>				
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<p>1.17</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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)</p>				
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<p>1.18</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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</p>				
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<p>1.19</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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] Coffor Beams: Strainght / Curved / Segmental(Rate only)</p>				
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<p>1.20</p>	<p>FORM FINIndian StandardsSHED FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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</p>				
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<p>1.21</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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] Coffor Slab: (flat, sloping, cantilevered or any other position) and Staircases) (Rate only)</p>				
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<p>1.22</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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] RCement Concrete Pardi and Shear Walls: Strainght / Curved / Segmental</p>				
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<p>1.23</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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)</p>				
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<p>1.24</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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 milimetres wide. (Rate only)</p>				
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<p>1.25</p>	<p>FORM FINIndian Standards FORMWORK: Providing, fabricating and erecting form work (centering and shuttering) at all levels and places wherever needed/specified as per drawing including striking with 12milimetres 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 Indian Standards 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 Mild Steel Ties, Polyvinyl chloride 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 milimetres wide. (Rate only)</p>				
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<p>1.26</p>	<p>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, Mild Steel 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)</p>				
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<p>1.27</p>	<p>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, Mild Steel 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)</p>				
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<p>1.28</p>	<p>Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (As per SSR consumption of M30 grade of concrete has only change in extra 25kilogram of cement rest all is same, so adding 0.5 bag of cement in M-25 RCement Concrete pardi concrete) (Item No. 26.19)</p>	<p>BDF 11</p>	<p>Bd.F.11 Page Number 304 and B.7, Page Number 38</p>	<p>(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)</p>	
<p>1.29</p>	<p>... (Item No. 26.19, First Floor)</p>	<p>BDF 11</p>	<p>Bd.F.11 Page Number 304 and B.7, Page Number 38</p>	<p>(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</p>	

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				cement in M-25 RCC pardi concrete)	
1.30	... (Item No. 26.19, Second Floor)	BDF 11	Bd.F.11 Page Number 304 and B.7, Page Number 38	(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)	

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1.31	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.54)	BDF 6	Bd.F.6 Page Number 300 and B.7, Page Number38		
1.32	... (Item No. 25.54, First Floor)	BDF 6	Bd.F.6 Page Number 300 and B.7, Page Number38		
1.33	... (Item No. 25.54, Second Floor)	BDF 6	Bd.F.6 Page Number 300 and B.7, Page Number38		
1.34	... (Item No. 25.54, Third Floor)	BDF 6	Bd.F.6 Page Number 300 and B.7, Page Number38		
1.35	Filling in plinth and floors with approved excavated material in 15 centimetres. to 20 centimetres.	BDA 10	Bd.A.10 Page Number 262		

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	Layers including watering and compacting etc. complete. (Item No. 21.36)				
1.36	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 centimetres to 20 centimetres including watering and compaction etc. complete. (Item No. 21.37)	BDA 11	Bd.A.11 Page Number 263		
1.37	Providing dry/trap/granite/quartzite/gneiss rubble stone soling 15 centimetres to 20 centimetres thick including hand packing and compacting etc. complete. (Item No. 21.38)	BDA 12	Bd.A. 12 Page Number 264		
1.38	Providing and laying Cast in situ/Exposed Ready Mix Form Finish Cement Concrete M-30 of trap metal for RCement Concrete 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 Cement Mortar 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled concrete batch mix	BDF 41	Bd.F.6, Page Number300/Bd .F.8, Page Number302 and B.7 Page Number 38.		

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	plant(pan mixer). With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 26.62)				
1.39	... (Item No. 26.62, First Floor)	BDF 41	Bd.F.6, Page Number300/Bd .F.8, Page Number302 and B.7 Page Number 38.		
1.40	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum	BDF 8	Bd.F.8 Page Number 302 and B.7, Page Number38		

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	Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.74)				
1.41	... (Item No. 25.74, First Floor)	BDF 8	Bd.F.8 Page Number 302 and B.7, Page Number38		
1.42	... (Item No. 25.74, Second Floor)	BDF 8	Bd.F.8 Page Number 302 and B.7, Page Number38		
1.43	Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.Cement Concrete 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 Cement Mortar 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	BDF 13A	Bd. F. 13 Page Number 305/I.S. 456(2000		

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	<p>block).(Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc.) with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (As per SSR consumption of M30 grade of concrete has only change in extra 25kilogram of cement rest all is same, so adding 0.5 bag of cement in M-25 RCement Concrete pardi concrete) (Item No. 26.26)</p>				
1.44	<p>Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-30 of trap/quartzite/granite/gneiss metal for R.Cement Concrete 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 Cement Mortar 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</p>	BDF 13A	Bd. F. 13 Page Number 305/I.S. 456(2000)		

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	<p>Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (As per SSR consumption of M30 grade of concrete has only change in extra 25kilogram of cement rest all is same, so adding 0.5 bag of cement in M-25 RCement Concrete pardi concrete) (Item No. 26.26, First Floor)</p>				
1.45	<p>Providing and laying Cast in situ/Exposed Ready Mix Form Finish cement concrete in M-20 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete.</p>	BDF 12	Bd. F. 12 Page Number 304 and B-7, Pg 38		

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	With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 26.23)				
1.46	... (Item No. 26.23, First Floor)	BDF 12	Bd. F. 12 Page Number 304 and B-7, Pg 38		
1.47	... (Item No. 26.23, Second Floor)	BDF 12	Bd. F. 12 Page Number 304 and B-7, Pg 38		
1.48	Providing and fixing in position T Metric Tonnes-FE-500 bar reinforcement of various diameters for R.Cement Concrete 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)	BDF 17	Bd.F.17, Page Number 306		

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<p>1.49</p>	<p>Providing and fixing 20 to 25milimetres 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 25milimetres between rough shahabad and R.Cement Concrete 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 35milimetres 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)</p>	<p>BDJ</p>	<p>Bd.J.2 Page Number 355</p>		
<p>1.50</p>	<p>Providing second class Burnt Brick masonry with conventional/Indian Standards 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)</p>	<p>BDG 1</p>	<p>Bd.G. 1 Page Number 313</p>		

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1.51	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)	BDH 11	Bd. H.11 Page Number 333		
1.52	Providing and constructing masonry in precast solid Concrete Block(Grade D-50 As per Indian Standards 2185, Part-I, 1974, Reframed 1987) having compressive strength 5-00 N/mm ²) of size(300metresilimetres x 200metresilimetres x 150metresm) 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)	BDI	As directed by Engineer in Charge.		
1.53	... (Item No. 29.03, First Floor)	BDI	As directed by Engineer in Charge.		
1.54	Providing Autoclaved Aerated Concrete Block masonry of conforming to Indian Standards: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 Indian Standards:6441(Part I)-1972) (Item No. 27.15)	BDG	As directed by engineer in charge		

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1.55	... (Item No. 27.15, First Floor)	BDG	As directed by engineer in charge		
1.56	... (Item No. 27.15, Second Floor)	BDG	As directed by engineer in charge		
1.57	Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12milimetres 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 in centimetres 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20metresilimetres thick brick bedding in centimetres 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)	BDJ	As directed by Engineer in charge		
1.58	... (Item No. 31.26, First Floor)	BDJ	As directed by Engineer in charge		
1.59	Providing and fixing chicken mesh of 22 gauge, with about 30 centimetres. 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.	BDL	As directed by Engineer in Charge:		

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	complete. (Item No. 32.26)				
1.60	... (Item No. 32.26, First Floor)	BDL	As directed by Engineer in Charge:		
1.61	... (Item No. 32.26, Second Floor)	BDL	As directed by Engineer in Charge:		
1.62	Providing waterproof plaster in W.C. and bath 12milimetres thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogra metres 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)	BDJ	As directed by Engineer in charge.		
1.63	... (Item No. 31.06, First Floor)	BDJ	As directed by Engineer in charge.		
1.64	... (Item No. 31.06, Second Floor)	BDJ	As directed by Engineer in charge.		
1.65	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 15milimetres thick in Cement Mortar 1:4 and rough cast treatment 12milimetres thick in proportion 1:1 1/2:3 including scaffolding and fourteen days curing	BDL 8	Bd.L.8 Page Number 370		

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	complete. (Item No. 32.12)				
1.66	Supplying & providing approved colour washed stone grit plaster 1:0:5:2 (1cement: 0.5 dolomite powder: 2 stone chipping 10metresilimetres 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.				
1.67	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)	BDL	As directed by Engineer in charge.		
1.68	... (Item No. 32.31, First Floor)	BDL	As directed by Engineer in charge.		
1.69	... (Item No. 32.31, Second Floor)	BDL	As directed by Engineer in charge.		

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1.70	Providing and fixing 1200metresilimetres high S.S.304 Grade Stainless steel railing with 40metresilimetres diameter and 1.5milimetres thick at top, 40metresilimetres diameter and 1.5milimetres thick vertical supports spaced at 1.5m center to center and 8milimetres thick toughened glass including fabricating, fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete (Item No. 40.07)	BDW	As directed by Engineer Incharge		
1.71	Providing and fixing 40metresilimetres diameter and 1.5milimetres 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)	BDW	As directed by Engineer Incharge		
1.72	Providing and laying polished hand cut Kotah Stone flooring 25milimetres to 30metresilimetres thick and 45 centimetres to 55 centimetres wide in plain/diamond pattern on a bed of 1:6 Cement Mortar including cement float, filling joints with neat cement slurry, curing, polishing and cleaning complete. (Item No. 33.08)	BDM	Bd.M.3 Page Number380		
1.73	... (Item No. 33.08, First Floor)	BDM	Bd.M.3 Page Number380		

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1.74	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 18milimetres to 20metresilimetres thick on bed 1:6 cement mortar including cement floats striking joints, pointing in Cement Mortar 1:3 curing and cleaning etc. complete. (Item No. 33.34)	BDM 3	Bd.M. 3 B/Page Number 380		
1.75	... (Item No. 33.34, First Floor)	BDM 3	Bd.M. 3 B/Page Number 380		
1.76	Providing and laying Antiskid ceramic tiles having size 590metresilimetres to 605milimetres x to 605milimetres of 8 to 10metresilimetres thickness and confirming Indian Standards. 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)	BDM 12	Bd.M.12 Page Number 385		
1.77	Providing and laying Antiskid Ceramic tiles having size 590metresilimetres to 605milimetres x to 605milimetres of 8 to 10metresilimetres thickness and confirming Indian Standards. 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.	BDM 12	Bd.M.12 Page Number 385		

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	(Item No. 33.42, First Floor)				
1.78	Providing and laying vitrified mirror/glossy finish tiles having size 590metresilimetres to 605milimetres x 590metresilimetres to 605milimetres of 8 to 10metresilimetres thickness and confirming to Indian Standards. 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)	BDM 12	Bd.M. 12 Page Number385		
1.79	... (Item No. 33.41, First Floor)	BDM 12	Bd.M. 12 Page Number385		
1.80	Providing and fixing machine cut machine polished 18milimetres to 20metresilimetres 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)	BDM 22	Bd. M.22 B/Page Number 390		

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1.81	Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25milimetres 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)	BDM 22B	Bd.M.22 Page Number 390		
1.82	Providing and laying cement concrete flooring 50metresilimetres 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 30 centimetres x 30 centimetres 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. 33.16)	BDM 6A	Bd.M.6 Page Number 381		
1.83	... (Item No. 33.16, First Floor)	BDM 6A	Bd.M.6 Page Number 381		
1.84	Providing & Fixing in position, Polyvinyl chloride (Polyvinyl chloride) Carpet more than 800+ gsm, of approved make along with 5milimetres underlay as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour, finishing etc. complete.				

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1.85	Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25milimetres to 30metresilimetres 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)	BDM	As directed by Engineer in Charge		
1.86	Providing and laying vitrified mirror/glossy finish tiles having size 590metresilimetres to 605milimetres x 590metresilimetres to 605milimetres of 8 to 10metresilimetres thickness and confirming to Indian Standards. 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)	BDM 12	Bd.M. 12 Page Number385		
1.87	... (Item No. 33.41)	BDM 12	Bd.M. 12 Page Number385		
1.88	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)	BDO 8F	As directed by Engineer in charge.		
1.89	... (Item No. 35.22, First Floor)	BDO 8F	As directed by Engineer in charge.		

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1.90	... (Item No. 35.22, Second Floor)	BDO 8F	As directed by Engineer in charge.		
1.91	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)	BDL	As directed by Engineer in charge.		
1.92	... (Item No. 32.34, First Floor)	BDL	As directed by Engineer in charge.		
1.93	... (Item No. 32.34, Second Floor)	BDL	As directed by Engineer in charge.		
1.94	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)	BDP 5	Bd. P.5 Page Number 413		
1.95	... (Item No. 36.10, First Floor)	BDP 5	Bd. P.5 Page Number 413		
1.96	... (Item No. 36.10, Second Floor)	BDP 5	Bd. P.5 Page Number 413		
1.97	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)	BDP 1A	Bd. P. I Page Number 411		
1.98	... (Item No. 36.03, First Floor)	BDP 1A	Bd. P. I Page Number 411		

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1.99	... (Item No. 36.03, Second Floor)	BDP 1A	Bd. P. I Page Number 411		
1.100	<p>Providing and fixing Modular false ceiling of 600 x 600metresilimetres center to center and 13milimetres thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 "(50metresilimetres x 40metresm) weighing 0.39 Kilogram/m at 60 centimetress center center and fixed with " x "(15 x 15mm) flanges weighing 0.19 Kilogram/m suspended on 6milimetres dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams including rounding of the edges with alluinium T of 2" x 1 "(50metresilimetres x 40metresm) weighing 0.39 Kilogram/m etc.(all alluminium sections shall be anodized) including all labour, material, lifts etc. complete. (Item No. 38.52)</p>	BDR	As directed by Engineer in charge.		
1.101	... (Item No. 38.52, First Floor)	BDR	As directed by Engineer in charge.		

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<p>1.102</p>	<p>Providing and fixing in position Gypsum board false ceiling with 12.5milimetres thick Gypsum boards, screwed/fixd to the under structure of suspended Galvanised Iron. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50metresilimetres 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)</p>	<p>BDR</p>	<p>As directed by Engineer in charge.</p>		
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<p>1.103</p>	<p>Providing and Fixing of Galvanized Iron Lay in Plain metal ceiling consisting of 600x600metresilimetres Lay in tiles of pre coated galvanized steel in 0.5milimetres thickness in Global white color tile to be laid on grid systems with 15milimetres wide T-section flanges color white having rotary stitching on the Main Runner, 1200metresilimetres and 600metresilimetres Cross Tees.Providing and Fixing of Galvanized Iron Lay in Plain metal ceiling consisting of 600x600metresilimetres Lay in tiles of pre coated galvanized steel in 0.5milimetres thickness in Global white color tile to be laid on grid systems with 15milimetres wide T-section flanges color white having rotary stitching on the Main Runner, 1200metresilimetres and 600metresilimetres Cross Tees.products approved as per GRIHA and British Standard 476 etc. complete. (Item No. 38.48)</p>	<p>BDR</p>	<p>As directed by Engineer in charge.</p>		
<p>1.104</p>	<p>... (Item No. 38.48, First Floor)</p>	<p>BDR</p>	<p>As directed by Engineer in charge.</p>		
<p>1.105</p>	<p>Providing and preparing kitchen otta up to 75 centimetres width, made up from 30metresilimetres thick and 75 centimetres high vertical support for kadppa at 1 metres c/c of 25milimetres thick both side polished kadappa middle shelf and bottom of 20metresilimetres thick one side</p>	<p>BDM 35</p>	<p>Bd.M.35C/Page Number 393</p>		

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	polished kadappa with facia patti of 20 x 50metresilimetres kadappa including all material labour cutting fixing with cement mortar and araldite curing polished and cleaning etc. complete. (Item No. 33.38)				
1.106	... (Item No. 33.38)	BDM 35	Bd.M.35C/Page Number 393		
1.107	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 300metresilimetres x 40metresilimetres x 5milimetres with oil painting, etc. complete (Item No. 39.01)	BDT	As directed by Engineer in charge.		
1.108	... (Item No. 39.01, First Floor)	BDT	As directed by Engineer in charge.		
1.109	... (Item No. 39.01)	BDT	As directed by Engineer in charge.		
1.110	Providing and fixing solid core flush door shutter in double leaf 32milimetres thick decorative type of exterior grade as per detailed drawings approved face veneers 3milimetres 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	BDT	As directed by Engineer in charge.		

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	No. 39.95)				
1.111	... (Item No. 39.95, First Floor)	BDT	As directed by Engineer in charge.		
1.112	Providing and fixing solid core flush door shutter in single leaf 32milimetres thick decorative type of exterior grade as per detailed drawings approved face veneers 3milimetres 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)	BDT-34	BD-T-34 Page Number 499		
1.113	... (Item No. 39.09, First Floor)	BDT-34	BD-T-34 Page Number 499		
1.114	Providing and fixing iron painted MS door with thickness 3milimetres double door/single door with frame and Fittings etc complete.				
1.115	... (First Floor)				
1.116	... (Second Floor)				
1.117	Providing and Fixing 12milimetres toughened Glass door shutter with Fittings, etc complete.				

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<p>1.118</p>	<p>Providing and laying telephone black/Amba White/Cadburybrown/Ruby red/Ocean Brown granite stone of 18 to 20metresilimetres thick for door frame/dado/window boxing etc. On Cement Mortar 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete. (Item No. 33.68)</p>	<p>BDM</p>	<p>As directed by Engineer-In-Charge</p>		
<p>1.119</p>	<p>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 Cement Mortar1:5 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 Cement Mortar1:3 admixed with approved water proofing compound and finally top finishing with average 20 milimetres 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 300metresilimetres x 300 milimetres making the junctions at</p>	<p>BDJ</p>	<p>As directed by Engineer in charge.</p>		

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	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)				
1.120	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 quality and shade complete. (Item No. 23.11, Second Floor)		Spec. Number As directed byEngineer in Charge.		
1.121	Providing and fixing 20metresilimetres dia. mild steel bar upto 0.5 M. length for anchor rods with necessary threading nuts and bolts etc. complete. (Item No.	BDR	As directed by Engineer in charge.		

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	38.32)				
1.122	<p>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 milimetres effective cover width and46 milimetres corrugation depth in Bare Galvalume Steel materials. The feed material is manufactured out of nominal 0.55 milimetres 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 Australian Standard 1397 AZ150 having min. 150 grams/ square metres 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 Galvanized Iron 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 -CLAustralian StandardSIC ZIngress Protection400</p> <p>2.Insulation layer: Rockwool Insulation layer having 100 milimetres thick, 48 kilogram/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</p>	BDR	As directed by Engineer in charge.		

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	<p>Type Spacer: Supply & Installation of 40 milimetres height Top Hat Bracket with 40 milimetres Height Z Galvanized Iron Sub-girt to be fixed with help of self tapping screws at every Top Hat Bracket location over liner sheets to accommodate 100 milimetres thick insulation, the height of 100 milimetres will cater the thickness of insulation. (Size - 40x50x40x1.5milimetres Thk).</p> <p>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 milimetres Base Metal thickness (B Metric Tonnes) 0.47 milimetres 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 Australian Standard 1397 AZ150 having min. 150 grams/ square metres total on both sides. (Tata BlueScope Steel Ltd Make Base Coil) (Profile - MxLINE) Color Surf-mist with reverse Profile. (Item No. 38.37, Second Floor)</p>				
<p>1.123</p>	<p>Flashings: Supply & fixing of 0.55milimetres thick colour coated Galvalume flashing for above matching profile upto 600metresilimetres Girth. Supply length would be 2.5 metres(Tata Blue Scope Steel Ltd Make Base</p>				

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	Coli) (Second Floor)				
1.124	<p>Supply and installation of cubicles of width and depth as per Athena Lite-SS Series Cubicles-Std Sizes(W x D x H): 900metresilimetres x 1550metresilimetres x 2105mm, (Height is including 100metresilimetres gap from bottom, Door Width- 600metresilimetres specifications/site drawings). Cubicle height to be 2105 milimetres Made from solid grade compact high pressure laminate as per Indian Standards:2046 and EN-438 manufactured under high specific pressure > 5 MPa and temperature >120C, All doors will be of single colour and made of 12milimetres thick Merino HorsepowerL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. Size of panels to be as per drawing. HARDWARE & ACement ConcreteESSORIES 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</p>		As directed by Engineer-in-charge		

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	from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated.etc complete. (Item No. 51.162)				
1.125	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)	BDC 2	Bd.C.2 Page Number 275		
1.126	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	BDT	As directed by Engineer in charge.		

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	fastening with 5milimetres thick clear float glass etc. complete. :: b) Powder Coated (Item No. 39.51b)				
1.127	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 5milimetres 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)	BDT	As directed by Engineer in charge.		
2.1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to 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 upto 0.00 to 1.50 metres) By Manual Means (Item No. 21.01)	BDA 1	Bd.A.1 Page Number 259		
2.2	Providing dry/trap/granite/quartzite/gneiss rubble stone soling 15 centimetres to 20 centimetres thick including hand packing and compacting etc. complete. (Item No. 21.38)	BDA 12	Bd.A. 12 Page Number 264		

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<p>2.3</p>	<p>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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 24.01)</p>	<p>BDE 1</p>	<p>Bd. E. 1 Page Number 287</p>		
<p>2.4</p>	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete work in foundations like raft, strip foundations, grillage and footings of R.Cement Concrete 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</p>	<p>BDF 3</p>	<p>Bd.F.3 Page Number 298 and B.7, Page Number38</p>		

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	automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.15)				
2.5	Filling in plinth and floors with approved excavated material in 15 centimetres. to 20 centimetres. Layers including watering and compacting etc. complete. (Item No. 21.36)	BDA 10	Bd.A.10 Page Number 262		
2.6	Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete.	BDF 6	Bd.F.6 Page Number 300 and B.7, Page Number38		

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	With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.54)				
2.7	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.35)</p>	BDF 5	Bd.F.5 Page Number 300 and B.7, Page.Number 38		

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<p>2.8</p>	<p>Providing and fixing in position T Metric Tonnes-FE-500 bar reinforcement of various diameters for R.Cement Concrete 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)</p>	<p>BDF 17</p>	<p>Bd.F.17, Page Number 306</p>		
<p>2.9</p>	<p>Providing second class Burnt Brick masonry with conventional/Indian Standards type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete (Item No. 27.05)</p>	<p>BDG 5</p>	<p>Bd.G.5 Page Number 315</p>		
<p>2.10</p>	<p>Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15milimetres 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 8milimetres 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)</p>	<p>BDL 7</p>	<p>Bd.L.7 Page Number 369</p>		

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<p>2.11</p>	<p>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)</p>	<p>BDO 8E</p>	<p>As directed by Engineer in charge.</p>		
<p>2.12</p>	<p>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)</p>		<p>Spec.Number: Bd.O.8/Page Number406</p>		
<p>2.13</p>	<p>Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45milimetres dia Galvanised Iron. pipe(Rezan/concentiDeleted ire 0.75milimetres dia) with hot dip and Galvanised Iron. coated hooks as per drawing supported on Mild Steel angle 50 x 50 x 6milimetres at 2.5 mtr. c/c including fixing and fastening with wire, painting Mild Steel angles with one coat of red lead primer and two coat of oil paint etc. complete. (Item No. 40.05)</p>	<p>BDW</p>	<p>As directed by Engineer in charge.</p>		

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<p>3.1</p>	<p>Providing & Fixing in position, Acoustical Panelling made from Wood-wool board 20metresilimetres on, 50 x 50metresilimetres 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 50metresilimetres 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)</p>		<p>As directed by Engineer-in-charge</p>		
<p>3.2</p>	<p>Providing & Fixing in position Acoustical Doors along with 150 x 150metresilimetres teak wood frame, doors made from 50metresilimetres Teak wood frame 600 x600 c to c filled with 1000 Gsm synthetic wool 50metresilimetres thick and 3milimetres Tecsound from both sides, 12milimetres waterproof ply & veneer from both sides, including 150metresilimetres heavy duty SS hinges(Geze/Dorma or eq.) 4 no each 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</p>		<p>As directed by Engineer-in-charge</p>		

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	materials labour, finishing etc complete (Item No. 51.05)				
3.3	<p>Providing and Fixing Soft Fibre Acoustical Suspended Ceiling System with Optra(Bevelled Tegular) Edge Tiles of size 15milimetres 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(British Standard 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 Galvanised Iron channel 32 with 15milimetres wide T-section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200metresilimetres and 600metresilimetres Cross Tees with a web height of 32milimetres 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</p>	BDR	As directed by Engineer in charge.		

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	together should carry a 10 year warranty. products approved as per GRIHA and British Standard 476 etc. complete. (Item No. 38.47)				
4.1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300metresm, 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 150metresilimetres in thickness. (Item No. 2.09)	MORTH 201	MORTH 201		
4.2	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 50 metres and spreading for embankment or stacking as directed. (Item No. 2.11)	MORTH 301	MORTH 301		

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<p>4.3</p>	<p>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 50 metres and spreading for embankment or stacking as directed. (Item No. 2.13)</p>	<p>MORTH 301</p>	<p>MORTH 301</p>		
<p>4.4</p>	<p>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 Optimum Moisture Content, 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)</p>	<p>MORTH 401</p>	<p>MORTH 401</p>		
<p>4.5</p>	<p>Wet Mix Macadam -- Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at Optimum Moisture Content 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)</p>	<p>MORTH 406</p>	<p>MORTH 406</p>		

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<p>4.6</p>	<p>Providing and constructing 75 milimetres thick Modified Penetration Macadam(Modified Penetration Macadam) road surface including all materials, preparing the existing road surface, spreading 40 milimetres stone layers metal 100% crusher broken metal with conical crusher plant, heating and spraying the bitumen of specified grade @ 2kilogram/square metres, spreading 12 milimetres size chips compacting with three wheel static roller having weight 8 to 10 Metric Tonnes to achieve 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 Kilogram Square metres on existing bitumen surface.(Viscosity Grade-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.36b)</p>	<p>MORTH 505</p>	<p>IRC-SP-20, 2002 Clause Number 8.7.3</p>		
<p>4.7</p>	<p>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 Vessel Traffic Service, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired density for 76-100metresilimetres compacted thickness .USING Batch mix type hot mix plant with Supervisory Control</p>	<p>MORTH 505</p>	<p>MORTH 507</p>		

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	and Data Acquisition, Sensor Paver, Vibratory roller with Stone Dust filler.(Viscosity Grade-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.44)				
4.8	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 Vessel Traffic Service, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50metresilimetres compacted thickness with specified grade of Bitumen, Excluding prime/tack coat. For Bitumen of specified grade -- USING Batch mix type hot mix plant with Supervisory Control and Data Acquisition, Sensor Paver, Vibratory roller with Stone Dust filler.(Viscosity Grade-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.48)	MORTH 507	MORTH 509		
4.9	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 0.60kilogram/square metres using mechanical means. (Item No.	MORTH 502	MORTH 502		

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	3.29)				
4.10	Providing and applying tack coat on the prepared surface heating by fumes in Boiler and spraying bitumen set footed in bitumen boller on Bitumen surface 2.5kilogram/10square metres.(Viscosity Grade-30 bulk bitumen rates are considered to arrive at rates) (Item No. 3.30)	MORTH 503	MORTH 503		
4.11	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/Vertical Shaft Impactor grade finely washed crushed sand) conforming to Indian Standards 383, using fine and coarse aggregates combined gradation as per Table 600-3 of Ministry of Road Transport and Highways 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 80metresilimetres at bottom and	MORTH 602	MORTH 602		

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	<p>40metresilimetres at top with depth of 75milimetres and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. (Item No. 5.01)</p>				
<p>4.12</p>	<p>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 Supervisory Control and Data Acquisition with fine agregates of required specifications(Natural sand/Vertical Shaft Impactor sand finely washed etc) (Item No. 11.02)</p>	<p>CD 3A</p>	<p>CD.-3 Page.Number 160</p>		

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<p>4.13</p>	<p>Providing and casting in situ or precast tapering R.Cement Concrete M-20 Semi Barrier type Kerb without gutter(as per Indian Roads Congress 86 1983) embedded 125milimetres below ground level over M-10 Plain Cement Concrete finished neatly with Cement Mortar 1:2, setting the same in Cement Mortar 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)</p>	<p>MORTH 408</p>	<p>MORTH 408</p>		
<p>5.1</p>	<p>Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300metresm, 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 150metresilimetres in thickness. (Item No. 2.09)</p>	<p>MORTH 201</p>	<p>MORTH 201</p>		
<p>5.2</p>	<p>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 50 metres and spreading for embankment or stacking as directed. (Item No. 2.11)</p>	<p>MORTH 301</p>	<p>MORTH 301</p>		

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<p>5.3</p>	<p>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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 24.01)</p>	<p>BDE 1</p>	<p>Bd. E. 1 Page Number 287</p>		
<p>5.4</p>	<p>Providing and laying machine cut machine Polished Kota stone flooring 25milimetres to 30metresilimetres 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)</p>	<p>BDM 3B</p>	<p>Bd.M.3 Page Number 380</p>		
<p>5.5</p>	<p>Providing and fixing in required position skirting or dado of polished Kotah Stone slab 25milimetres to 30metresilimetres 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)</p>	<p>BDM</p>	<p>As directed by Engineer in Charge</p>		

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<p>5.6</p>	<p>Providing and fixing heavy duty inter locking concrete Grey paving blocks of 60metresilimetres thickness of having a strength of 300 Kilogram/ Square centimetres. of approved quality and shape on a bed of crushed sand of 25 to 30metresilimetres thick including skirting joints and cleaning etc. complete. (Item No. 33.49)</p>	<p>BDM</p>	<p>A directed by Engineer in charge</p>		
<p>5.7</p>	<p>Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to 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 upto 1.5 metres) By Mechanical Means (Item No. 21.02)</p>	<p>BDA 1</p>	<p>Bd.A.1 Page Number 259</p>		
<p>5.8</p>	<p>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 3.0metres) By Manual Means (Item No. 21.07)</p>	<p>BDA 2</p>	<p>Bd.A.1 Page No.259</p>		

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<p>5.9</p>	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.Cement Concrete work in foundations like raft, strip foundations, grillage and footings of R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.13)</p>	<p>BDF 3</p>	<p>Bd.F.3 Page Number 298 and B.7, Page Number38</p>		
<p>5.10</p>	<p>Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data</p>	<p>BDF 11</p>	<p>Bd.F.11 Page Number 304 and B.7, Page Number 38</p>	<p>(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</p>	

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	Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 26.19)			M-25 RCC pardi concrete)	
5.11	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.33)	BDF 5	Bd.F.5 Page Number 300 and B-7, Page No 38.		

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<p>5.12</p>	<p>Providing and laying Cast in situ/Ready Mix cement concrete in M-25 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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 Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.52)</p>	<p>BDF 6</p>	<p>Bd.F.6 Page Number 300 and B.7, Page Number38</p>		
<p>5.13</p>	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap/granite/quartzite/gneiss metal for R.Cement Concrete 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</p>	<p>BDF 8</p>	<p>Bd.F.8 Page Number 302 and B.7, Page Number38</p>		

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	<p>Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant(Pan mixer) etc. complete. With fine aggregate(Crushed sand Vertical Shaft Impactor Grade) (Item No. 25.72)</p>				
5.14	<p>Providing Autoclaved Aerated Concrete Block masonry of conforming to Indian Standards: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 Indian Standards:6441(Part I)-1972) (Item No. 27.15)</p>	BDG	As directed by engineer in charge		
5.15	<p>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)</p>	BDL	As directed by Engineer in charge.		

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<p>5.16</p>	<p>Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15milimetres 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 8milimetres 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)</p>	<p>BDL 7</p>	<p>Bd.L.7 Page Number 369</p>		
<p>5.17</p>	<p>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)</p>	<p>BDL</p>	<p>As directed by Engineer in charge.</p>		
<p>5.18</p>	<p>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)</p>	<p>BDO 8E</p>	<p>As directed by Engineer in charge.</p>	<p>2</p>	
<p>5.19</p>	<p>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.</p>	<p>BDP 5A</p>	<p>Bd.P.5 Page Number 413</p>		

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	36.11)				
5.20	Providing and laying vitrified mirror/glossy finish tiles decorative type having size 590metresilimetres to 605milimetres x 590metresilimetres to 605milimetres of 8 to 10metresilimetres thickness and confirming to Indian Standards. 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)	BDM 12	Bd.M. 12 Page Number385		
5.21	Providing and laying vitrified mirror/glossy finish tiles having size 590metresilimetres to 605milimetres x 590metresilimetres to 605milimetres of 8 to 10metresilimetres thickness and confirming to Indian Standards. 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)	BDM 12	Bd.M. 12 Page Number385		

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<p>5.22</p>	<p>Providing and fixing solid core flush door shutter in single leaf 32milimetres thick decorative type of exterior grade as per detailed drawings approved face veneers 3milimetres 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)</p>	<p>BDT-34</p>	<p>BD-T-34 Page Number 499</p>		
<p>5.23</p>	<p>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)</p>	<p>BDC 2</p>	<p>Bd.C.2 Page Number 275</p>		
<p>5.24</p>	<p>Providing and fixing polycarbonate sheet to walkway including all necessary fittings, etc complete.</p>				

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