



छत्तीसगढ़ राज्य अक्षय ऊर्जा विकास अभिकरण (क्रेडा)

प्रधान कार्यालय— व्ही.आई.पी. (एयरपोर्ट) रोड, ऊर्जा पार्क के पास, ग्राम फुण्डहर, रायपुर (छ.ग.)
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रायपुर, दिनांक 05.10.18

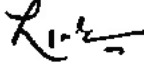
सूचना पत्र

राज्य में सौर सामुदायिक सिंचाई योजना के क्रियान्वयन हेतु आमंत्रित निविदा क्रमांक 15000 दिनांक 20.09.2018 में निम्नानुसार संशोधन किया जाता है:-

1. निविदा में अर्हता हेतु वर्ष 2015-16 से 2017-18 अर्थात् विगत 03 वर्षों के ओवर ऑल एवरेज टर्न ओवर के न्यूनतम 05 करोड़ होने के प्रमाणीकरण हेतु वर्ष 2017-18 की ऑडिटेड रिपोर्ट की अनुपलब्धता होने के स्थिति में इकाईयों द्वारा चार्टर्ड अकाउन्टेन्ट से प्रमाणी Provisional Certificate भी मान्य होंगे।
2. निविदा में दरें बिना जी.एस.टी. के आमंत्रित की जाएगी, तदनुसार निविदा की प्राईज़ बिड संलग्न प्रपत्र 'अ' अनुसार संशोधित की जाती है।
3. निविदा की आधार दरें (Without GST) संलग्न प्रपत्र 'ब' अनुसार संशोधित की जाती है।
4. निविदा की अन्य शर्तें संलग्न प्रपत्र 'स' अनुसार संशोधित की जाती है।
5. ऐसी इकाईयां जिनके कार्य क्रेडा में संतोषप्रद नहीं है, निविदा में भाग लेने हेतु अर्ह नहीं होगी।

निविदा की शेष शर्तें/मापदण्ड पूर्वानुसार ही रहेंगी।

संलग्न - उपरोक्तानुसार


(राजीव खरे)
मुख्य अभियंता

PRICE Bid

Schedule of Rates for Community Irrigation Scheme

(As per Specifications & Scope of Work of Tender no. 15000 Dt 20-09-2018)

For design, supply, installation, and commissioning of all allied works under Solar Community Irrigation Scheme with five years comprehensive onsite warrantee at various sites of Chhattisgarh State as per scope of work as per following details -

S N	Description of the work	Unit	Reference of Base rates	Rate (in % above/below)
1	Supply installation and commissioning of Solar Pumps	Nos.	As stated in tender document page	
2	All Civil Works	as per material list stated in tender document		
3	All Works under Water Distribution network			

Above rates are FOR anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, insurance, duties and any other job required to properly execute the work with 5 years warrantee as mentioned in the tender document. The GST payable on the bill produced for payment to CREDA shall be paid in addition to above quoted price as per rate of GST applicable at the time of billing.

Above rates quoted above are as per the requirement, specifications, and terms & condition mentioned in the tender document.

(No other cost will be claimed above the price quoted)

Name of the authorized Signatory :

Signature of the Authorized Signatory

Revised SOR for the tender no, 15000 dated 20.09.2018

“ब”

A Civil Works			
Code	Description	Unit	Rate Without GST
1	EARTH WORK		
1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		
1.1.1	In all types of soils.	cum	165.18
1.1.2	In ordinary rocks.	cum	238.39
1.1.3	In hard rocks requiring blasting.	cum	404.46
1.1.4	In hard rocks where blasting is prohibited.	cum	712.50
1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).	sqm	6.43
1.3	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material after cutting in approved sizes and disposal of unserviceable material.		-
1.3.1	Beyond 30 cm girth upto and including 60 cm girth	each	117.86
1.3.2	Beyond 60 cm girth upto and including 120 cm girth	each	519.64
1.3.3	Beyond 120 cm girth upto and including 240 cm girth	each	2,429.46
1.3.4	Above 240 cm girth	each	4,898.21
1.4	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm	3.30
1.5	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm	1.70
1.6	Extra for every additional lift of 1.5 m or part thereof.		-
1.6.1	All types of soils	cum	23.66
1.6.2	Ordinary or hard rocks	cum	42.41
1.7	Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water.	cum	45.54
1.8	Extra rate for quantity of work executed in or under foul condition.	cum	39.29
1.9	Extra rate for lead for every 50m lead or part thereof and upto 150 m beyond 50 m free lead and 1.5 m free lift by manual means only.		-
1.9.1	For Soils	cum	29.46
1.9.2	For Rocks.	cum	44.20
1.10	Pumping out water caused by springs tidal or river seepage, broken water main or drains and like during Excavation or during Excavation and laying of base concrete (volume to be calculated taking height from water level to bottom of pit and to be measured and paid) .	cum	130.36
1.11	Open timbering in foundation trenches including strutting and shoring complete (measurements to be taken of the face area timbered.)		-
1.11.1	Depth not exceeding 1.5 M.	sqm	158.93
1.11.2	Depth exceeding 1.5 M. but not exceeding 3 M.	sqm	161.61
1.11.3	Depth exceeding 3.0 M.	sqm	165.18

1.12	Open timbering in case of shaft, wells cesspit, manholes and like, including strutting, shoring etc. complete (measurements to be taken of face are timbered)		-
1.12.1	Depth not exceeding 1.5 M.	sqm	132.14
1.12.2	Depth exceeding 1.5 M. but not exceeding 3 M.	sqm	137.50
1.12.3	Depth exceeding 3.0 M	sqm	159.82
1.13	Extra for planking and strutting in open timbering if required to be left permanently in position (Face to face area of the timber permanently left to be measured).	sqm	1,153.57
1.14	Close timbering in foundation trenches including strutting, shoring and packing cavities where ever required complete (Measurement to be taken of the face area timbered).		-
1.14.1	Depth not exceeding 1.5 M.	sqm	310.71
1.14.2	Depth exceeding 1.5 M. but not exceeding 3 M.	sqm	314.29
1.14.3	Depth exceeding 3.0 M.	sqm	316.96
1.15	Close timbering in case of shaft, walls, cesspit, manholes and like including strutting shoring and packing cavities (wherever required complete measurement to be taken of the face area timbered).		-
1.15.1	Depth not exceeding 1.5 M.	sqm	327.68
1.15.2	Depth exceeding 1.5 M. but not exceeding 3 M.	sqm	350.00
1.15.3	Depth exceeding 3.0 M.	sqm	373.21
1.16	Extra for planking, strutting and packing materials for cavities in close timbering if required to be left permanently in position (face area of the timber permanently left, to be measured).	sqm	2,250.89
1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	cum	58.04
1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	cum	331.25
1.19	Providing filling and compacting local earth (from approved source pit) in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	cum	216.07
1.20	Excavating holes upto 0.25 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift upto 1.5 m.		-
1.20.1	All kinds of soil.	each	39.29
1.20.2	Ordinary rock	each	98.21
1.20.3	Hard rock (requiring blasting)	each	195.54
1.20.4	Hard rock (blasting prohibited)	each	261.61
1.21	Deduct for the serviceable excavated stone received from the excavation of hard rock which is the property of contractor.	cum	181.25
1.22	Supplying chlorpyrifos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified.	litre	185.71
1.23	Diluting chemical emulsion (chlorpyrifos/ lindane) in water as per manufacturers recommendation and injecting for post - construction ani-termite treatment (excluding cost of chemical emulsion):		-

1.23.1	Along external wall where the apron is not provided using diluted chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:	metre	8.13
1.23.2	Along external wall below concrete or masonry apron along the plinth wall using diluted chemical emulsion @ 0.65 litres per hole including drilling 12mmdia holes 300mm apart and plugging the same with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing apron after injecting chemical emulsion.	metre	13.39
1.23.3	Treatment of masonry wall/ soil under existing floors using diluted chemical emulsion @ one litre per hole, including drilling 12 mm diameter holes at the junction of floor and walls along the cracks on the floor at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :	metre	9.38
1.24	Diluting chemical emulsion (chlorpyrifos/ lindane) in oil or kerosene based solution as per manufacturers recommendation and injecting the diluted chemical emulsion for post - constructional anti-termite treatment of wood work at points of contact @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	metre	105.36
1.25	Diluting chemical emulsion (chlorpyrifos/ lindane) in water as per manufacturers recommendation and injecting for pre-constructional curative cum preventive anti-termite treatment:(Five year service guarantee bond to be signed by contractor)		-
1.25.1	Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm	sqm	24.55
1.25.2	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	metre	16.96
1.25.3	Treatment of outer side of plinth masonry wall using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	metre	12.05
1.26	Carriage by mechanical transport upto 5 km lead:		-
1.26.1	Earth	cum	99.11
1.26.2	Sludge	cum	79.46
1.26.3	Dismantled Building debris (Mulba)	cum	81.70
1.27	Extra for mechanical transport for every one km or part thereof beyond first 5 km lead.		-
1.27.1	Earth	cum.km	8.04
1.27.2	Sludge	cum.km	6.43
1.27.3	Dismantled Building debris (Mulba)	cum.km	8.04
2	FORM WORK		-
2.1	Providing and fixing form work including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:		-
2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	sqm	124.11
2.1.2	Wall of any thickness including attached pilasters, buttresses etc. in super structure.	sqm	203.57
2.1.3	Window sills, anchor blocks, string course, bends, copings, bed plates and like.	sqm	164.29
2.1.4	Edge of slab, breaks in floor and walls upto 200mm.	metre	30.36

2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape	sqm	265.18
2.1.6	Columns, beams & walls- circular or any other geometrical shape other than square and rectangular in all sizes	sqm	317.86
2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	sqm	209.82
2.1.8	Beams, lintels, cantilevers & walls	sqm	180.36
2.1.9	Vertical and horizontal fins individually or forming box, louvers bands, almirah shelves and likes.	sqm	300.00
2.1.10	Folded plates slabs	sqm	173.21
2.1.11	Arches, domes and likes, upto 6 M. Span.	sqm	521.43
2.1.12	Arches, domes and likes, exceeding 6 M. span	sqm	794.64
2.1.13	Weather shade, chhajja, Cornices and mouldings	sqm	262.50
2.1.14	Spiral / folded plate type stair cases including risers and landings	sqm	274.11
2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings	sqm	205.36
2.1.16	Coffer/ waffle/ Grid slab of any size or shape. Note: (1) Any grid box of area less than 1 sqm will only be paid in this item. (2) Only plan area is to be measured and paid and grid beams or fins will not be paid separately.	sqm	455.36
2.2	Extra for additional height every 1m or part thereof where height of staging for form work exceeds 4.0 metre with adequate bracing, propping etc at all levels, for suspended floor, roof, landing, beam and balcony. (only plan area is to be measured):	sqm	36.16
2.3	Extra for providing fixing and removing of propping from lower floor upwards for the concreting. Propping should be provided two floors below. The props of lower floor must be 50% of the props of the floor above including wedging etc. complete. In case propping is done in one floor below, only half the rate shall be paid.	sqm	15.18
2.4	Extra for unsupported individual columns with height more than 4.0 m from the immediate lower level in every floor. (full area of column is to be paid)	sqm	26.34
3	CEMENT CONCRETE (PLAIN AND REINFORCED)		-
3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.		-
3.1.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size).	cum	2,150.89
3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	cum	2,374.11
3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	cum	2,651.79
3.1.4	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	cum	3,171.43
3.1.5	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	cum	3,636.61
3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. (Note :Excess/ less cement used as per design mix is payable/ recoverable separately)		-
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	cum	3,716.96

3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.		-
3.3.1	M-20 Grade	cum	3,777.68
3.3.2	M-25 Grade	cum	3,837.50
3.3.3	M-30 Grade	cum	3,894.64
3.3.4	M-35 Grade	cum	3,951.79
3.3.5	M-40 Grade	cum	4,008.93
3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	cum	87.05
3.5	Providing and laying pre-stressed cement concrete of M-35 grade in superstructure including form work but excluding reinforcement complete as per drawing and specifications and IS : 1343-2012.	cum	5,647.32
3.6	Providing and laying High tensile steel wires/ strands at any level including all accessories i.e. sheathing duct, tube anchorage set, and stressing, stressing operations and grouting with cement complete as per drawing and technical specifications.	kg	129.46
3.7	Providing and mixing in cement concrete, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 12 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer.	kg	326.79
3.8	Extra for providing and fixing expanded metal mesh of size 20mm x60mm and strands 3.0mm wide, 1.6 mm thick, weighting 2.64 kg. per sqm for encasing of rolled steel section in beams, columns and grillages but excluding cost of hangers.	sqm	341.96
3.9	Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	cum	418.75
3.10	Extra for laying PCC/ RCC, in or under water or liquid mud including cost of pumping or bailing out of water and removing slush etc. complete:	cum	233.04
3.11	Extra for laying PCC/ RCC, in or under foul conditions.	cum	86.61
3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:		-
3.12.1	Thermo-Mechanically treated bars FE 415	kg	48.66
3.12.2	Thermo-Mechanically treated bars FE 500D	kg	48.66
3.12.3	Thermo-Mechanically treated bars FE 550D	kg	49.11
3.12.4	Cold twisted bar / Hot rolled deformed steel	kg	47.77
3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	cum	3,783.04
3.14	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	kg	38.84
3.15	Applying a coat of hot bitumen VG-10 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	sqm	83.48

3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	sqm	243.75
3.17	Providing and laying 25mm thick eves board/ facia made with cement mortar 1:3 (1 cement: 3 coarse sand) and chicken mesh including cost of form work required but excluding steel reinforcement.	sqm	684.82
3.18	Providing and filling in position, blown bitumen in expansion joints per cm. depth and per cm width.	metre	4.55
3.19	Providing and fixing in position copper plate as per design for expansion joints.	kg	599.11
3.20	Providing and fixing aluminium strip 1.60 mm thick on expansion joints with iron screws as per design to match the colour, shade of wall treatment .	sqm	1,247.32
3.21	Providing and fixing in position impregnated fibre board conforming to IS: 1838 in expansion joints, including cost of primer, sealing compound all complete.		-
3.21.1	12 mm thick	sqm	438.39
3.21.2	25mm thick	sqm	685.71
3.22	Providing and fixing 6 mm thick asbestos sheet covering over expansion joints with iron screws as per design to match the colour/shade of wall treatment.	sqm	476.79
3.23	Providing and fixing in expansion joint pre moulded cross linked polymer based filler as per IS:1838 (part III) of approved make including cutting to required size and shape etc complete.		-
3.23.1	12 mm thick	sqm	526.79
3.23.2	25 mm thick	sqm	991.07
3.23.3	50 mm thick	sqm	1,970.54
3.24	Providing and applying for hermetically water proof sealing of vertical / horizontal expansion joint with approved make Poly Sulphide Sealant compound (two component elastomeric sealant) having 80% tensile modulus elongation, proper bonding with building surface complete with cleaning and preparing of building surface, applying polymer solvent primer, providing and fixing PU back up rod of suitable dia in expansion joint for core making, filling with Poly Sulphide Sealant (Sealant filling depth should be minimum half of the joint gap), finishing and smoothing the surface etc complete. The application shall be got done through the authorised applicator of the manufacture of compound		-
3.24.1	For gap upto 25 mm wide	metre	464.29
3.24.2	For gap 40 mm wide	metre	858.93
3.24.3	For gap 50 mm wide	metre	1,247.32
4	WATER PROOFING		-

4.1	<p>Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for underground structures using rough Kota stone and consisting of:</p> <p>i) 1st layer of 22mm to 25mm thick approved rough Kota stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound.</p> <p>ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound.</p> <p>iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.</p>	sqm	600.00
4.2	<p>Providing and laying integral cement based treatment for water proofing on the vertical surface at all levels by fixing 22 mm to 25mm thick rough Kota stone slab with cement slurry mixed with water proofing compound conforming to IS:2645 with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with 20mm thick cement mortar 1:3 (1 cement : 3 coarse sand) with neat cement punning mixed with water proofing compound complete.</p>	sqm	641.96
4.3	<p>Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of WC, kitchen and the like consisting of:</p> <p>i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 including rounding off junction of vertical and horizontal surface.</p> <p>ii) 2nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound including rounding off junction of vertical and horizontal surface.</p> <p>iii) 3rd course of applying blown or residual bitumen applied hot @ 1.7 Kg. per sqm of area.</p> <p>iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg. per sqm of area.</p>	sqm	397.32
4.4	<p>Providing and placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :</p>		-
4.4.1	Serrated with central bulb (225mm wide, 8-11mm thick).	metre	406.25
4.4.2	Dumb bell with central bulb (180mm wide, 8mm thick).	metre	366.07
4.4.3	Kickers (320mm wide, 5mm thick).	metre	375.89

4.5	<p>Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation:</p> <p>i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.</p> <p>ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.</p> <p>The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.</p>	sqm	162.50
4.6	<p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation:</p> <p>i) 1st layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>ii) 2nd layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>iii) 3rd layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with coarse sand @ 1.289 kg/sqm and water proofing cement compound @ 0.07 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.</p> <p>iv) 4th and final layer of brick tiling with cement mortar (which will be paid for separately)</p> <p>For the purpose of measurement the entire treated surface will be measured.</p>	sqm	252.68
4.7	<p>Providing and laying integral cement based water proofing treatment on roofs, balconies, terraces etc with average thickness of 120mm and minimum thickness at khurra as 65 mm, consisting of following operations including surface preparation:</p> <p>i) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement mixed with water proofing compound conforming to IS. 2645 over the RCC slab including adjoining walls upto 300mm height.</p> <p>ii) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) mixed with water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) mixed with water proofing compound conforming to IS : 2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p> <p>iii) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645.</p>	sqm	545.54

	<p>iv) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) mixed with water proofing compound conforming to IS : 2645 including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.</p> <p>v) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.</p> <p>All above operations to be done in order:</p>		
4.8	Providing and laying six course damp proof treatment in basement, sump, reservoir etc. consisting of first, third, fifth course of blown type petroleum bitumen of IS grade 85/25 hot @ 1.6kg/ sqm and 2nd & 4th course of self finished bitumen tar felt with priming coat with bitumen solution applied at the rate of 0.25 litre per sqm and sixth and final course of stone grit 6mm and down pea sized gravel spreaded at 0.008 cum per sqm including preparation of surface by grouting cracks, providing C.C. fillets, rounding of corners and cleaning and drying of the surface before priming coat is applied complete.		-
4.8.1	With bitumen felt of type 2, grade 2 (Fibre base) in 2nd and 4th course.	sqm	358.93
4.8.2	With bitumen felt of type 3, grade 2 (Hessian base) in 2nd and 4th course.	sqm	348.21
4.8.3	With bitumen felt of type 2, grade 2 (Fibre base) in 2nd course and & type 3, grade 2 (Hessian base) in 4th course.	sqm	353.57
4.9	Providing and laying eight course damp proofing treatment in basement, sumps, reservoirs etc. consisting of first, third, fifth and seventh course of blown type petroleum bitumen of IS grade 85/ 25 applied hot at the rate of 1.60kg/ sqm. and 2nd 4th, 6th course of self finished bitumen tar felt with priming coat with bitumen solution applied at the rate of a minimum 0.25 litre per sqm eight and final course of stone grit 6mm and down pea sized gravel spreaded at 0.008 cum per sqm including preparation of surface by grouting cracks, providing C.C. fillets, rounding of corners and cleaning and drying of the surface before priming coat is applied complete.		-
4.9.1	With bitumen felt of type 2, grade 2 (Fibre base) in 2nd, 4th & 6th course.	sqm	503.57
4.9.2	With bitumen felt of type 3, grade 2 (Hessian base) three courses.	sqm	486.61
4.9.3	With bitumen felt of type 2 grade 2 (Fibre base) in two courses, one course with type 3 grade 2 (Hessian base).	sqm	498.21
4.9.4	With bitumen felt of type 2, grade 2 (Fibre base) one course and two courses with type 3 grade 2 (Hessian base).	sqm	492.86

4.10	Providing and laying three course damp proofing treatment in water reservoir, sump, tank etc., with bitumen felt and blown type petroleum bitumen at the rate of 1.6 Kg/sqm 1st, 3rd course and 2nd course with tar felt including applying priming coat at the rate of 0.25 litre per sqm and fillets and rounding corners, wherever required, complete.		-
4.10.1	Bitumen felt of type 2 grade 2 (Fibre base)	sqm	286.61
4.10.2	With tar felt (Hessian base) type 3 grade 2.	sqm	275.89
4.11	Supplying and applying bituminous solution primer on roof and or wall surface at 0.24 litre per sqm.	sqm	18.30
4.12	Deduct for omitting in water proofing treatment final course of spreading stone grit 6mm down size or pea sized gravel :		-
4.12.1	At 6 cudm per sqm.	sqm	10.27
4.12.2	At 8 cudm per sqm.	sqm	12.05
4.13	Grading roof for water proofing treatment with:		-
4.13.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	3,408.04
4.13.2	Cement mortar 1:3 (1 cement : 3 coarse sand)	cum	4,117.86
4.13.3	Cement mortar 1:4 (1cement : 4 coarse sand)	cum	3,393.75
4.14	Providing and fixing 2mm thick (for corrugated roof sheets) APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sq. mtr. by the same membrane manufacture of density at 25°C, 0.87 - 0.89 kg/ ltr and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.	sqm	240.18
4.15	Providing and laying 3mm thick APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/ltr and viscosity 70 - 160 cps. over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147.	sqm	319.64

4.16	<p>Providing and laying 3mm thick APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under :Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147.</p>	sqm	353.57
4.17	<p>Extra for covering top of membrane with Geotextile, 120gsm non woven, 100% polyester of thickness 1 to 1.25mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.</p>	sqm	45.98
4.18	<p>Providing and fixing broken glazed tiles on top of hot bitumen @ 1.00 kg/ sqm (0.80 kg-85/25 grade and 0.20 kg -80/100 grade) and joint filled with cement mortar 1:2 (1 cement :2 marble dust) mixed with water proofing compound complete.</p>	sqm	119.64
4.19	<p>Providing water proofing treatment against dampness & Seepage on RCC or lime concrete roof/ terrace, over head tank, sunken slab consisting of following operations:</p> <p>i) Removing loose material and 25 mm cement concrete/ cement plaster including gola etc. and cleaning the surface.</p> <p>ii) Drilling 20mm dia holes spacing not more than 300 mm center to center in cracks and joint of wall & slab.</p> <p>iii) Injecting polymer based high strength water proofing compound of approved brand & make, admixed with cement in the ratio as specified by manufacturer, in holes by pressure pump.</p> <p>iv) Leveling the surface by providing and laying 25mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5/6mm) mixed with polymer based high strength water proofing compound of approved brand & make in the ratio as specified by manufacturer.</p> <p>v) Providing and laying of bonding slurry prepared by mixing of cement with approved make and brand acrylic polymer (as per IS 13435 Part-3) in two layers (totaling upto 3mm thick) by brush. Second layer to be laid after 4 hours of first layer.</p> <p>vi) Providing and laying 15mm thick cement plaster in cement mortar 1:4 (1 cement : 4 coarse sand) and finishing the surface with neat cement admixed with integral water proofing compound (IS: 2645) as per manufacturers recommendations. This operation shall be continued upto 300 height on parapet wall.</p> <p>vii) After a short period of above operation a string marking shall be done making squares of 300x300mm.</p>	sqm	656.25

4.20	<p>Providing post water proofing treatment against dampness & Seepage in walls of basement, plinth, super structure (horizontal or vertical) consisting of following operations:</p> <p>i) Removing loose material and cleaning the surface.</p> <p>ii) Drilling 20mm dia holes in walls/ floor in zigzag manner spacing not more than 150 mm center to center.</p> <p>iii) Injecting polymer based high strength water proofing compound of approved brand & make, admixed with cement in the ratio as specified by manufacturer, in holes by _____ pressure _____ pump.</p> <p>iv) Plugging holes with polymer compound admixed with cement.</p> <p>v) Providing and laying of bonding slurry prepared by mixing of cement with approved make and brand acrylic polymer (as per IS 13435 Part-3) in two layers (totaling up-to 3mm thick) by brush. Second layer to be laid after 4 hours _____ of _____ first _____ layer.</p> <p>vi) Providing and laying 15mm thick cement plaster in cement mortar 1:4 (1 cement : 4 coarse sand) and finishing the surface with neat cement admixed with integral water proofing compound (IS: 2645) as per manufacturers recommendations.</p>	sqm	617.86
4.21	<p>Providing post water proofing treatment against dampness & Seepage in roof, terraces, sunken floor of toilets with reinforced acrylic breathable (polymer content 35%, elongation at break at > 100%) coating consisting of following _____ operations:</p> <p>i) Removing loose material and cleaning the surface.</p> <p>ii) Priming in one coat with water based acrylic emulsion.</p> <p>iii) Three coats with reinforced acrylic breathable polymer.</p>	sqm	545.54
4.22	<p>Providing Water proofing treatment over Roof, Wall, Chhajjas, Balcony with Diamond Shield and Sealer coat or equivalent at leakage/ seepage area consisting of the operation:</p> <p>(i) Surface preparation roughening of surface, opening of cracks in 'V' groove in size of 5mm x 10m (WxD), filling of cracks with putty of Diamond shield with laying fiber glass mesh, Cleaning of surface by scrubbing with steel wire/ Nylon brush. Removing all dust particles and washing with adequate water to clean completely.</p> <p>(ii) Providing and applying 1st coat of diamond shield or equivalent compound (having two component dry powder 80% Chemical 20% (chemical having 30% solid contents) making flexible waterproof and protective modified mortar with minimum thickness 70-80 micron after proper mixing of both the parts of compound along with laying of fiber glass mesh (of weaving size of 10x10 yarn/inch duly coated with alkaline resistant polymer). Allow the coating to set in natural air for minimum 2 Hrs. After 1st coat apply 2nd coat with minimum thickness 100 micron of the same compound. Allow the 2nd coat to set in natural air for minimum 4 Hrs. Total consumption of the diamond shield or equivalent in both coat should be @ 17.90 kg for 10sqm area.</p> <p>(iii) Over the above layers providing and applying 1st coat of sealer compound (Single component High Build</p>	sqm	375.89

	<p>elastomeric, flexible, pure acrylic waterproofing membranes having solid content of 65%) minimum 50-60 micron and allow it to set in natural air for minimum 2 Hrs. After 1st coat apply 2nd and final coat 120-140 micron of sealer compound and allow it to set in natural air for minimum 4 Hrs. Consumption of Sealer compound should be @ 5.40 kg per 10 sqm area. The final area appearance of the coating will be milky white</p> <p>(iv) The treated area should be cure with water for 48 hrs by flooding the surface. All above operations to be done in order.</p> <p>The application shall be got done through the authorised applicator of the manufacturer.</p>		
5	MORTARS		-
5.1	Cement Mortar 1:1 (1 cement : 1 fine sand)	cum	5,341.07
5.2	Cement mortar 1:2 (1 cement : 2 fine sand).	cum	3,777.68
5.3	Cement mortar 1:3 (1 cement : 3 fine sand).	cum	2,996.43
5.4	Cement mortar 1:4 (1 cement : 4 fine sand).	cum	2,369.64
5.5	Cement mortar 1:5 (1 cement : 5 fine sand).	cum	2,032.14
5.6	Cement mortar 1:6 (1 cement : 6 fine sand).	cum	1,742.86
5.7	Cement mortar 1:2 (1 cement : 2 coarse sand).	cum	3,777.68
5.8	Cement mortar 1:3 (1 cement : 3 coarse sand).	cum	2,996.43
5.9	Cement mortar 1:4 (1 cement : 4 coarse sand).	cum	2,369.64
5.10	Cement mortar 1:5 (1 cement : 5 coarse sand).	cum	2,032.14
5.11	Cement mortar 1:6 (1 cement : 6 coarse sand).	cum	1,742.86
5.12	Cement mortar 1:8 (1 cement : 8 Coarse sand).	cum	1,453.57
5.13	Cement mortar 1:2 (1 cement : 2 stone dust).	cum	3,777.68
5.14	Cement mortar 1:2 (1 cement : 2 marble dust).	cum	4,490.18
5.15	White cement mortar 1:5 (1 white cement : 5 marble dust).	cum	2,834.82
5.16	White cement mortar 1: 2 (1 white cement : 2 marble dust).	cum	9,711.61
5.17	White cement mortar 1:3 (1 white cement : 3 marble dust).	cum	7,715.18
5.18	White cement mortar 1:5 (1 white cement : 5 marble dust)	cum	5,215.18
5.19	Cement mortar 1:1:3 (1 cement : 1 marble dust : 3 stone dust)	cum	4,819.64
5.20	Mud mortar	cum	217.86
5.21	Cement Concrete 1: 6 : 12 (1 cement : 6 coarse sand : 12 crushed stone aggregate 12.5mm)	cum	2,167.86
6	STONE WORK		-
6.1	Random rubble masonry with hard stone in foundation and plinth in Cement Mortar 1:6 (1 Cement : 6 Coarse Sand) including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand: 12 stone aggregate 20mm nominal size) upto plinth level.	cum	2,245.54
6.2	Extra for random rubble masonry with hard stone in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	cum	181.25
6.3	Extra for random rubble masonry with hard stone in square or rectangular pillars.	cum	170.54
6.4	Extra for random rubble masonry with hard stone in circular pillars.	cum	581.25

6.5	Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6.00m.	cum	256.25
6.6	Coursed rubble masonry (Second sort) with hard stone in Cement mortar 1:6 (1 cement : 6 coarse sand) upto plinth level.	cum	2,320.54
6.7	Extra for Coursed rubble masonry with hard stone (Second Sort) in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	cum	235.71
6.8	Extra for coursed rubble masonry with hard stone (Second Sort) in square or rectangular pillars.	cum	189.29
6.9	Extra for coursed rubble masonry with hard stone (Second sort) in circular pillars.	cum	655.36
6.10	Extra for coursed rubble masonry with hard stone (Second Sort) curved on plan for a mean radius not exceeding 6.0m	cum	256.25
6.11	Extra for laying stone work, in or under water and or liquid, mud including cost of pumping/ bailing out water and removing slush etc. complete.	cum	325.89
6.12	Extra for laying stone work, in or under foul conditions.	cum	86.61
7	BRICK WORK		-
7.1	Brick work with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% in foundation and plinth in:		-
7.1.1	Cement Mortar 1:3 (1 Cement : 3 Coarse Sand)	cum	3,749.11
7.1.2	Cement Mortar 1:4 (1 Cement : 4 Coarse Sand)	cum	3,580.36
7.1.3	Cement Mortar 1:5 (1 Cement : 5 Coarse Sand)	cum	3,489.29
7.1.4	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	cum	3,411.61
7.2	Brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in foundation and plinth in:		-
7.2.1	Cement Mortar 1:5 (1 Cement : 5 Coarse Sand)	cum	3,323.21
7.2.2	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	cum	3,245.54
7.2.3	Cement Mortar 1:8 (1 Cement : 8 Coarse Sand)	cum	3,167.86
7.3	Brick work with non-modular well burnt (open bhatta) clay bricks of crushing strength not less than 20 kg/sqcm and water absorption not more than 25% in foundation and plinth in:		-
7.3.1	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	cum	2,750.00
7.3.2	Cement Mortar 1:8 (1 Cement : 8 Coarse Sand)	cum	2,668.75
7.4	Brick work with modular well burnt (open bhatta) clay bricks of crushing strength not less than 20 kg/sqcm and water absorption not more than 25% in foundation and plinth in:		-
7.4.1	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	cum	2,913.39
7.4.2	Cement Mortar 1:8 (1 Cement : 8 Coarse Sand)	cum	2,835.71
7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:		-
7.5.1	Cement Mortar 1:3 (1 cement : 3 coarse sand)	cum	3,250.89
7.5.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	cum	3,082.14
7.5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)	cum	3,099.11
7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)	cum	2,913.39
7.5.5	Cement Mortar 1:8 (1 cement : 8 coarse sand)	cum	2,818.75
7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	cum	108.04
7.7	Extra for brick work in square and rectangular pillars. (size not more than 600mm in any direction)	cum	165.18
7.8	Extra for brick work curved on plan upto mean radius not exceeding 6 m including form work.	cum	348.21

7.9	Half brick thick (9cm) brick masonry with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% upto plinth level:		-
7.9.1	Cement Mortar 1:3 (1 cement : 3 coarse sand)	sqm	400.00
7.9.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	388.39
7.10	Half brick thick brick masonry with modular well-burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level:		-
7.10.1	Cement Mortar 1:3 (1 cement : 3 coarse sand)	sqm	383.93
7.10.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	372.32
7.11	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:		-
7.11.1	Cement Mortar 1:3 (1 cement : 3 coarse sand)	sqm	351.79
7.11.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	341.07
7.12	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:	sqm	9.82
7.13	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% upto plinth level.		-
7.13.1	Cement Mortar 1:3 (1 cement : 3 coarse sand)	sqm	300.89
7.13.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	293.75
7.14	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.		-
7.14.1	Cement Mortar 1:3 (1 cement : 3 coarse sand)	sqm	290.18
7.14.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	283.04
7.15	Half brick thick honey comb brick work with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 upto plinth level.		-
7.15.1	Cement Mortar 1:3 (1 cement : 3 coarse sand)	sqm	268.75
7.15.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	261.61
7.16	Extra for half brick thick honey comb brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:	sqm	10.71
7.17	Extra for cutting or chamfering of bricks to required shape in brick masonry work	metre	12.95
7.18	Providing 10cm. x 7.60 cm. drip course with specially moulded burnt bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% at junction of roof and walls in cement mortar 1:4 (1 cement 4 fine sand)	metre	61.61
7.19	Moulding and cornices with brick masonry using bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% in cement Mortar 1:4 (1 cement 4 coarse sand) including cement plaster 15 mm thick, 10 cm projected, 20 cm deep (40 cm Girth) in cement mortar 1:4 (1 cement : 4 fine sand) at any floor.	metre	225.00
7.20	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.	sqm	55.80
7.21	Extra for laying brick work in/under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	cum	130.36
7.22	Extra for laying brick work in or under foul conditions.	cum	86.61
7.23	Extra for brick work, where height of work exceeds 4.0 metre from immediate below floor level.	cum	84.38

7.24	Precast cement concrete block masonry work with precast blocks having crushing strength 75 kg/sqcm in cement mortar 1:6(1 Cement :6 coarse sand) .(To be used in boundary wall and plaster shall not be done.)	cum	4,178.57
7.25	Providing and laying AAC Autoclaved aerated concrete block conforming to IS: 2185 (Part-3)-1984) in block masonry with AAC blocks of width 100/ 200mm height 200/250/300mm, length 400/500/600 mm (approved sizes) with cement mortar 1 :6 (1 Cement :6 coarse sand) in superstructure. AAC blocks should have specific gravity 0.6 to 0.65 and crushing strength should not be less than 3 N/ sqmm (testing as per IS: 6441 - 1972).	cum	4,054.46
8	WOOD AND PVC WORK		-
8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.		-
8.1.1	Teak wood	cum	1,02,462.50
8.1.2	Sal, bijasal, benteak, khair, haldu	cum	54,509.82
8.2	Providing wood work in frames of false ceiling, partition etc. sawn and put in position with main batten 125x50mm (nominal) and cross batten 50x38mm (nominal) both at spacing of 600mm center to center.		-
8.2.1	Teak wood	cum	1,06,296.43
8.2.2	Sal, bijasal, benteak, khair, haldu	cum	55,842.86
8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.	each	64.73
8.4	Providing and fixing Dash fastener (for fixing door/ window frames) on C.C. / R.C.C./ Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.		-
8.4.1	Dash fastener 6x75mm	each	18.30
8.4.2	Dash fastener 10x75mm	each	24.55
8.4.3	Dash fastener 12x100mm	each	34.82
8.5	Extra for additional labour for circular work such as frames of fan lights.		-
8.5.1	Teak wood	cum	10,891.96
8.5.2	Sal, bijasal, benteak, khair, haldu	cum	6,096.43
8.6	Providing and fixing 40mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)		-
8.6.1	Teak wood	sqm	2,594.64
8.6.2	Bijasal, benteak, khair, haldu	sqm	1,578.57
8.7	Providing and fixing 35mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)		-
8.7.1	Teak wood	sqm	2,339.29
8.7.2	Bijasal, benteak, khair, haldu	sqm	1,433.04
8.8	Providing and fixing 30mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)		-
8.8.1	Teak wood	sqm	2,014.29
8.8.2	Bijasal, benteak, khair, haldu	sqm	1,247.32

8.9	Providing and fixing 35mm thick glazed shutter frames for windows, clerestory windows, ventilators etc. using glass panes including M.S. butt hinges with necessary screws but excluding glass panes. (Area of shutter to be measured without deducting paneling area).		-
8.9.1	Teak wood	sqm	2,693.75
8.9.2	Bijasal, benteak, khair, haldu wood.	sqm	1,683.04
8.10	Providing and fixing 30mm thick glazed shutter frames for windows, clerestory windows, ventilators etc. using glass panes including M.S. butt hinges with necessary screws but excluding glass panes. (Area of shutter to be measured without deducting paneling area).		-
8.10.1	Teak wood	sqm	2,368.75
8.10.2	Bijasal, benteak, khair, haldu wood.	sqm	1,497.32
8.11	Providing and fixing glass panes in glazed or paneled and glazed shutters of doors and window, clearstory windows etc (Only area of glass panes to be measured).		-
8.11.1	4mm thick	sqm	370.54
8.11.2	5mm thick	sqm	448.21
8.11.3	6mm thick	sqm	525.89
8.11.4	8mm thick	sqm	726.79
8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.		-
8.12.1	40 mm. thick (single leaf)	sqm	2,202.68
8.12.2	35 mm. thick (single leaf)	sqm	1,790.18
8.12.3	30 mm. thick (single leaf)	sqm	1,635.71
8.12.4	25 mm. thick (single leaf)	sqm	1,481.25
8.12.5	25 mm. thick (double leaf for cupboard shutters with piano type hinges)	sqm	1,490.18
8.13	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.		-
8.13.1	40 mm. thick (single leaf)	sqm	1,429.46
8.13.2	35 mm. thick (single leaf)	sqm	1,223.21
8.13.3	30 mm. thick (single leaf)	sqm	1,068.75
8.13.4	25 mm. thick (single leaf)	sqm	965.18
8.13.5	25 mm. thick (double leaf for cupboard shutters with piano type hinges)	sqm	975.00
8.14	Providing and fixing flush door shutters, core of block board construction with frame of first class hard wood and well matched first class Indian teak ply veneering on one face and commercial ply veneering on the other face of the shutter with vertical grains, cross bands and face veneering excluding hinges.		-
8.14.1	40 mm. thick (single leaf)	sqm	1,816.07
8.14.2	35 mm. thick (single leaf)	sqm	1,507.14
8.14.3	30 mm. thick (single leaf)	sqm	1,351.79
8.14.4	25 mm. thick (single leaf)	sqm	1,223.21
8.14.5	25 mm. thick (double leaf for cupboard shutters with piano type hinges)	sqm	1,232.14
8.15	Extra for double leaf shutter instead of single leaf.	sqm	46.43

8.16	Providing and fixing PVC membrane foil coated (laminated) flush door shutters, made with core of block board with frame of first class hard wood, coated with 0.30mm membrane pasted with resin using vacuum treatment process complete all but excluding hinges.		-
8.16.1	35 mm thick (single leaf)	sqm	1,769.64
8.16.2	30 mm thick (single leaf)	sqm	1,578.57
8.17	Providing and fixing PVC membrane foil coated (laminated) flush door shutters, made of partical board coated with 0.30mm membrane pasted with resin using vacuum treatment process complete all but excluding hinges.		-
8.17.1	35 mm thick (single leaf)	sqm	1,408.93
8.17.2	30 mm thick (single leaf)	sqm	1,223.21
8.18	Providing and fixing lipping with second class teak wood lipping on all edges of shutters.		-
8.18.1	25 x 6 mm size	metre	37.50
8.18.2	30 x 6 mm size	metre	43.30
8.18.3	35 x 6 mm size	metre	48.66
8.18.4	40 x 6 mm size	Metre	54.91
8.19	Extra for providing vision panel not exceeding 0.10 sqm in all type of flush shutters (excluding cost of glass)		-
8.19.1	Rectangular or square	each	61.61
8.19.2	Circular	each	81.70
8.20	Extra for providing louvers in flush doors upto 0.20 sqm		-
8.20.1	Decorative type doors (50 x 5 mm)	sqm	170.54
8.21	Extra for cutting rebate in flush door shutter (total area of door shutter to be measured).	sqm	41.07
8.22	Providing and fixing paneling in paneled or paneled and glazed shutters for doors etc. (only area of paneling to be measured). Paneling for or paneled and glazed shutters 25 mm to 40 mm thick:		-
8.22.1	Teak wood (16mm thick panel)	sqm	1,644.64
8.22.2	Bijisal, Haldu, Benteak, Khair (16mm thick panel)	sqm	1,041.96
8.22.3	12 mm thick pre-laminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade).	sqm	1,005.36
8.22.4	12 mm thick pre-laminated particle board with both side decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade).	sqm	1,046.43
8.22.5	12mm thick pre-laminated particle board flat pressed with decorative lamination on one side and balancing lamination on other side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587,	sqm	903.57
8.22.6	12mm thick pre-laminated particle board flat pressed with decorative lamination on both sides exterior Grade - I MDF Board 12 mm thick confirming to IS:14587.	sqm	955.36
8.22.7	12 mm thick ply teak veneering on both faces	sqm	1,618.75
8.22.8	12 mm thick solid PVC sheet with decorative lamination one side and other side balancing lamination of approved quality and make	sqm	860.71
8.22.9	12 mm thick solid PVC sheet with decorative lamination on both sides of approved quality and make	sqm	912.50
8.23	Providing and fixing 35mm thick wire gauge shutter having top and style rail 95mm width, bottom and lock rail 197mm width, using galvanized M.S. wire dia of 0.45 mm for doors, windows, clerestory windows excluding hinges.		-

8.23.1	Teak Wood	sqm	2,581.25
8.23.2	Bijasal, Haldu, Benteak, Khair	sqm	1,685.71
8.24	Providing and fixing 30mm thick wire gauge shutter having top and style rail 95mm width, bottom and lock rail 197mm width, using galvanized M.S. wire dia of 0.45mm for doors, windows, clerestory windows excluding hinges.		-
8.24.1	Teak Wood	sqm	2,211.61
8.24.2	Bijasal, Haldu, Benteak, Khair	sqm	1,537.50
8.25	Extra for providing fixing galvanized M.S. wire dia of 0.60 mm instead of wire dia 0.45mm to doors, windows and clerestory windows.	sqm	16.07
8.26	Providing and fixing 40mm thick louvered shutters fixed with venetians 12mm thick for window excluding hinges.		-
8.26.1	Teak Wood	sqm	3,334.82
8.26.2	Bijasal, Haldu, Benteak, Khair	sqm	2,165.18
8.27	Providing and fixing louvers 50mm wide and 12 mm thick in grooves in clerestory window frames excluding cost of frame.		-
8.27.1	Teak Wood	sqm	1,605.36
8.27.2	Bijasal, Haldu, Benteak, Khair	sqm	1,016.96
8.28	Providing and fixing plain jaffri of 35x10mm laths placed 35mm apart (frame to be paid separately) including M.S. straps, fixing 50x12mm beading complete.		-
8.28.1	Teak Wood	sqm	1,560.71
8.28.2	Bijasal, Haldu, Benteak, Khair	sqm	1,013.39
8.29	Providing and fixing plain jaffri door, windows shutters excluding, 35x10mm laths placed 35 mm apart including fixing 50x12 mm beading complete excluding hinges with.		-
8.29.1	Teak Wood	sqm	2,471.43
8.29.2	Bijasal, Haldu, Benteak, Khair	sqm	1,589.29
8.30	Providing 50x50x50mm thick wood plugs including cutting brick work and fixing in Cm 1:3 (1 cement :3 sand).	each	18.30
8.31	Providing and fixing teak wood plain lining tongue and groove and including wooden/ rawl plugs complete with necessary screws and priming coat on exposed surface.		-
8.31.1	38 mm thick	sqm	4,532.14
8.31.2	25 mm thick	sqm	2,895.54
8.31.3	19 mm thick	sqm	2,351.79
8.32	Providing and fixing in wall lining 12mm thick flat pressed three layer (medium density) particle board pre-laminated one side decorative lamination on other side balancing lamination exterior Grade - I MDF Board 12 mm thick conforming to IS:14587 marked including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete.	sqm	868.75
8.33	Providing and fixing teak wood jamb lining with necessary screws, priming coat on exposed surfaces etc complete. (only jamb lining area is to be measured)		-
8.33.1	40 mm thick	sqm	5,100.00
8.33.2	25 mm thick	sqm	3,537.50
8.34	Providing and fixing 4mm thick ply wood plain lining with necessary screws and primary coat on exposed surface complete with ply facing.		-
8.34.1	Teak ply faces	sqm	859.82
8.34.2	Commercial ply faces.	sqm	535.71

8.35	Providing and fixing wall paneling frame made of commercial grade 12mm thick water proof ply strips 100mm wide at 600mm apart center to center vertically and horizontally with necessary screws, wooden plugs etc complete as required.	sqm	492.86
8.36	Providing and fixing commercial grade water proof ply for wall paneling on wooden frame with necessary nails complete as required.		-
8.36.1	19mm	sqm	1,099.11
8.36.2	12mm	sqm	738.39
8.36.3	6mm	sqm	489.29
8.37	Providing and fixing approved shade veneering on wood wall paneling complete as required.	sqm	629.46
8.38	Providing and fixing 25mm thick teak wood plain skirting with necessary screws and a priming coat with wood primer on unexposed surfaces.	sqm	3,199.11
8.39	Providing and fixing teak wood moulded beading to doors windows frames including necessary screws and primary coat on exposed surface.		-
8.39.1	19x12mm	metre	45.09
8.39.2	25x12 mm	metre	72.32
8.39.3	25x25mm	metre	108.93
8.39.4	50x12mm	metre	108.93
8.39.5	50x19mm	metre	149.11
8.40	Providing and fixing 200 mm wide teak wood moulding such as base moulding, chair rail, architrave, moulded posts moulding skirting including necessary screws and painting on unexposed surfaces with wood primer etc complete for per cm thick.	metre	200.00
8.41	Providing and fixing teak wood archivolt having 100 mm projectors including necessary screws and painting of unexposed surfaces with approved wood primer etc complete for per cm width.	metre	123.21
8.42	Providing and fixing 12mm thick, 100mm wide pelmet with 6mm thick top cover, 20mm dia nickel plated M.S. pipe heavy duty curtain rod and bracket including fixing with 10cm long 25x3mm M.S. flat, rawl plugs, screws etc complete.		-
8.42.1	Teak wood	metre	349.11
8.42.2	12 mm thick ply board, commercial veneering both face.	metre	241.96
8.42.3	12 mm thick ply board, commercial veneering on one face and teak veneering on other face.	metre	310.71
8.43	Providing and fixing 12mm thick, 150mm wide pelmet with 6mm thick top cover, 20mm dia nickel plated M.S. pipe (heavy duty) curtain rod and bracket including fixing with 10cm long 25x3mm M.S. flat, rawl plugs etc complete.		-
8.43.1	Teak wood	metre	411.61
8.43.2	12 mm thick ply board, commercial veneering both face.	metre	305.36
8.43.3	12 mm thick ply board, commercial veneering on one face and teak veneering on other face.	metre	410.71
8.44	Extra for providing and fixing heavy duty stainless steel pipe for curtain rod with two stainless steel brackets in pelmets instead of M.S. curtain rod of 20mm dia and M.S. brackets. (actual length of rod to be measured)		-
8.44.1	12 mm dia	metre	87.95
8.44.2	19/20 mm dia	metre	169.64
8.44.3	25 mm dia	metre	204.46

8.45	Providing and fixing heavy duty stainless steel pipe for curtain/ cloth hanging with two stainless steel brackets in wooden pelmet or wardrobe or any other space including screws and or plastic rawl plugs etc. wherever necessary.		-
8.45.1	With 20 mm dia pipe	metre	147.32
8.45.2	With 25 mm dia pipe	metre	169.64
8.45.3	Elliptical pipe made from 25mm dia pipe	metre	204.46
8.46	Providing and fixing decorative curtain rod assembly made of 32mm dia aluminium pipe covered with decorative finish plastic sleeve, 2 Nos or more 100x50x20mm size decorative wooden bracket, 2 Nos 100x50mm dia decorative wooden rod holding end plugs and 50mm dia wooden curtain rings 1 nos for every 100mm of length of curtain rod including PVC rawl plugs etc complete:	metre	234.82
8.47	Providing and fixing Indian teak plywood 4 mm thick in partition including fixing to frames with brass screws etc. complete with 50x12mm teak wood beadings (frames to be paid separately).	sqm	841.96
8.48	Providing and fixing plain asbestos cement sheet 6 mm thick in partition including fixing to frames with necessary screws etc. complete with 50x12mm teak wood beadings (frames to be paid separately).	sqm	501.79
8.49	Providing and fixing 4 mm thick Decorative plywood of approved quality in partition including fixing to frames with necessary screws etc. complete with 50 x 12 mm teak wood beadings (frames to be paid separately).	sqm	1,146.43
8.50	Providing and fixing 25 mm thick wooden shelves supported on 40x40x6 mm T or L iron brackets fixed at suitable distance in 75x75x150mm blocks of M-15 grade cement concrete.		-
8.50.1	Teak wood	sqm	3,205.36
8.50.2	Bijasal, Haldu, Benteak, Khair	sqm	2,138.39
8.51	Providing and fixing 38 mm thick wooden shelves supported on 40x40x6 mm T or L in brackets fixed at suitable distance in 75x75x150mm blocks of cement concrete 1:2:4:		-
8.51.1	Teak wood	sqm	4,081.25
8.51.2	Bijasal, Haldu, Benteak, Khair	sqm	2,638.39
8.52	Providing, and fixing M.S. round and square bars with MS flat of required pattern in wooden frames for windows & clerestory windows including applying a priming coat of red oxide zinc chromate primer, welding etc complete		-
8.52.1	Plain grill	kg	60.71
8.52.2	Ornamental grill	kg	67.86
8.53	Providing and fixing expanded metal 20x60 mm stands 3.25 mm wide and 1.60mm thick to window including 62x19mm beading to teak wood including priming coat of red oxide zinc chromate primer.	sqm	829.46
8.54	Providing & fixing hard drawn steel wire fabric 75x25mm mesh of weight not less than 7.75 kg. per sqm to doors, window frames including 62x19mm teak wooden beading including priming coat of red oxide zinc chromate primer.	sqm	954.46
8.55	Providing and fixing and galvanized wire mesh of I.S. gauge designation 85 G. with wires 0.56 mm dia to windows and clerestory windows including 19x12mm teak wood beading including priming coat of red oxide zinc chromate primer.	sqm	395.54
8.56	Providing and fixing stainless steel wire mesh of average width of aperture 1.56mm with wire of dia 0.45mm to doors, windows and clerestory windows including 19x12mm teak wood beading etc. complete.	sqm	579.46

8.57	Providing sal wood beams, joints (karries) including hosting fixing in position and applying wood preservative on exposed surface etc. with Salwood.	cum	53,583.04
8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:		-
8.58.1	125x85x5.50 mm (Heavy Type)	each	218.75
8.58.2	100x85x5.50 mm (Heavy Type)	each	174.11
8.58.3	75x65x4.00 mm (Heavy Type)	each	67.41
8.58.4	125x70x4.00 mm (Ordinary Type)	each	136.61
8.58.5	100x70x4.00 mm (Ordinary Type)	each	108.93
8.58.6	75x40x2.50 mm (Ordinary Type)	each	79.02
8.58.7	50x40x2.50 mm (Ordinary Type)	each	50.89
8.59	Providing and fixing bright finished brass parliamentary hinges with brass polished MS screws complete:		-
8.59.1	150x125x27x5 mm	each	377.68
8.59.2	125x125x27x5 mm	each	314.29
8.59.3	100x125x27x5 mm	each	255.36
8.59.4	75x100x20x3.20 mm	each	97.32
8.60	Providing and fixing bright finished brass sliding door bolt with nuts and brass polished MS screws complete:		-
8.60.1	300x16mm	each	424.11
8.60.2	250x16mm	each	307.14
8.61	Providing and fixing brass door latch with brass polished MS screws complete:		-
8.61.1	300x16x5 mm	each	355.36
8.61.2	250x16x5 mm	each	239.29
8.62	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:		-
8.62.1	250x10mm	each	246.43
8.62.2	200x10mm	each	206.25
8.62.3	150x10mm	each	157.14
8.62.4	100x10mm	each	106.25
8.63	Providing and fixing bright finished brass flush bolt with brass polished MS screws complete:		-
8.63.1	250 mm	each	240.18
8.63.2	150 mm	each	147.32
8.63.3	100 mm	each	100.00
8.64	Providing and fixing bright finished brass indicating bolt (vacant/ engaged) with brass polished MS screws complete:	each	155.36
8.65	Providing and fixing bright finished brass door handles with brass polished MS screws complete:		-
8.65.1	125 mm	each	49.55
8.65.2	100 mm	each	43.75
8.65.3	75 mm	each	37.95
8.66	Providing and fixing bright finished brass furniture handles 50 mm with brass screws/nuts etc complete.	each	47.32
8.67	Providing and fixing of bright finished brass mortise latch and lock 100x65mm with six levers and a pair of lever handles with brass polished MS screws etc. complete.	each	866.96
8.68	Providing and fixing of bright finished brass mortise latch 100X65mm and pair of lever handles with brass polished MS screws etc. complete.	each	778.57
8.69	Providing and fixing bright finished brass rim latch and lock 100mm and pair of knob with brass polished MS screws etc. Complete	each	402.68

8.70	Providing and fixing bright finished brass 100mm rim latch with a dead bolt and a pair of knobs, brass polished MS screws etc. complete.	each	378.57
8.71	Providing and fixing special quality bright finished brass cupboard or wardrobe locks with four levers including necessary screws etc. complete (best make of approved quality) :		-
8.71.1	40 mm	each	92.86
8.71.2	50 mm	each	100.89
8.71.3	65 mm	each	115.18
8.71.4	75 mm	each	132.14
8.72	Providing and fixing 50mm bright finished brass cupboard or ward robe knob with brass screws.	each	27.68
8.73	Providing and fixing 150mm bright finished brass floor door stopper with rubber cushion & brass polished MS screws etc complete to suit the shutter thickness.	each	65.18
8.74	Providing and fixing bright finished brass hard drawn hooks & eyes with brass polished MS screws etc complete.		-
8.74.1	300 mm	each	75.00
8.74.2	250 mm	each	69.20
8.74.3	200 mm	each	57.14
8.74.4	150 mm	each	45.54
8.74.5	100 mm	each	32.14
8.75	Providing and fixing bright finished brass hasp and staple (safety type) with brass polished MS screws complete		-
8.75.1	150 mm	each	74.11
8.75.2	115 mm	each	50.45
8.75.3	90 mm	each	38.84
8.76	Providing and fixing bright finished brass hanging door stopper with necessary brass finished MS steel screws complete.	each	39.29
8.77	Providing and fixing antique/ SS finished brass butt hinges with antique/ SS polished MS screw complete:		-
8.77.1	125x85x5.50mm (Heavy Type)	each	228.57
8.77.2	100x85x5.50 mm (Heavy Type)	each	183.04
8.77.3	75x65x4.00 mm (Heavy Type)	each	83.04
8.77.4	125x70x4.00mm (Ordinary Type)	each	141.07
8.77.5	100x70x4.00 mm (Ordinary Type)	each	112.50
8.77.6	75x40x2.50 mm (Ordinary Type)	each	70.98
8.77.7	50x40x2.50 mm (Ordinary Type)	each	57.14
8.78	Providing and fixing antique/ SS finished brass parliamentary hinges with antique/ SS polished MS screw complete:		-
8.78.1	150x125x27x5 mm	each	394.64
8.78.2	125x125x27x5 mm	each	328.57
8.78.3	100x125x27x5 mm	each	267.86
8.78.4	75x100x20x3.20 mm	each	101.79
8.79	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete:		-
8.79.1	300x16mm	each	442.86
8.79.2	250 x 16mm	each	436.61
8.80	Providing and fixing antique/ SS finished brass door latch with antique/ SS polished MS screw complete:		-
8.80.1	300 x16x5 mm	each	378.57
8.80.2	250x16x5 mm	each	250.00

8.81	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete:		-
8.81.1	250 x10 mm	each	265.18
8.81.2	200 x10mm	each	222.32
8.81.3	150 x 10 mm	each	168.75
8.81.4	100 x10 mm	each	113.39
8.82	Providing and fixing antique/ SS finished brass flush bolts with antique/ SS polished MS screw complete:		-
8.82.1	250 mm	each	251.79
8.82.2	150 mm	each	154.46
8.82.3	100 mm	each	106.25
8.83	Providing and fixing antique/ SS finished brass indicating bolt (Vacant/ engaged) with antique/ SS polished MS screw complete:	each	160.71
8.84	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:		-
8.84.1	125 mm	each	52.23
8.84.2	100 mm	each	46.43
8.84.3	75 mm	each	27.68
8.85	Providing and fixing antique/ SS finished brass furniture handles 50 mm with antique/ SS polished MS screws/nuts etc complete.	each	46.43
8.86	Providing and fixing 100mm antique/ SS finished brass mortise latch and lock with six levers and a pair of lever handles with antique/ SS polished MS screw complete.	each	907.14
8.87	Providing and fixing antique/ SS finished brass 100mm mortise latch with one dead bolt and pair of lever handles with antique/ SS polished MS screw complete.	each	815.18
8.88	Providing and fixing 100 mm antique/ SS finished brass rim latch and lock with a pair of knobs with antique/ SS polished MS screw complete.	each	418.75
8.89	Providing & fixing 100mm antique/ SS finished brass rim latch with a dead bolt and pair of knobs with antique/ SS polished MS screw complete.	each	395.54
8.90	Providing & fixing 150mm antique/ SS finished brass floor door stopper with rubber cushion and antique/ SS polished MS screw complete to suit the shutter thickness.	each	68.75
8.91	Providing and fixing antique/ SS finished brass hard drawn hooks and eyes with antique/ SS polished MS screw complete:		-
8.91.1	300 mm	each	78.13
8.91.2	250 mm	each	72.32
8.91.3	200 mm	each	59.38
8.91.4	150 mm	each	47.77
8.91.5	100 mm	each	35.27
8.92	Providing and fixing antique/ SS finished brass hasp and staple (safety type) with antique/ SS polished MS screw complete:		-
8.92.1	150 mm	each	77.68
8.92.2	115 mm	each	52.68
8.92.3	90 mm	each	41.07
8.93	Providing and fixing antique/ SS finished brass hanging door stopper with necessary antique/ SS finished MS steel screws complete.	each	44.20
8.94	Providing and fixing M.S. bright finished or black enameled Butt hinges IS : 1341 marked with necessary iron screws:		-
8.94.1	125x65x2.12mm	each	26.79
8.94.2	100x58x1.90 mm	each	18.30

8.94.3	75x47x1.70 mm	each	12.50
8.94.4	50x37x1.50 mm	each	8.39
8.95	Providing and fixing M.S. bright finished or black enameled Parliamentary hinges with necessary iron screws:		-
8.95.1	150x125x27x2.80 mm	each	70.09
8.95.2	125x125x27x2.80 mm	each	60.27
8.95.3	100x125x27x2.80 mm	each	50.45
8.95.4	75x100x20x2.24 mm	each	36.61
8.96	Providing and fixing M.S. bright finished or black enameled Double spring hinges with iron screws:		-
8.96.1	150 mm	each	283.04
8.96.2	125 mm	each	255.36
8.96.3	100 mm	each	220.54
8.97	Providing and fixing M.S. bright finished or black enameled Piano hinges 1mm thick with 35mm wide flange including necessary iron screws.	metre	87.05
8.98	Providing and fixing M.S. nickel plated Piano hinges 1mm thick with 35mm wide flange including necessary iron screws.	metre	99.11
8.99	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws:		-
8.99.1	300x16mm	each	69.20
8.99.2	250 x 16 mm	each	64.73
8.100	Providing and fixing M.S. bright finished or black enameled door latch with necessary iron screws:		-
8.100.1	300x20x6mm	each	47.77
8.100.2	250x20x6mm	each	45.09
8.101	Providing and fixing M.S. bright finished or black enameled 85x12mm pull bolt lock with necessary nuts and necessary iron screws.	each	31.70
8.102	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws:		-
8.102.1	250 mm	each	30.80
8.102.2	200 mm	each	25.89
8.102.3	150 mm	each	20.54
8.102.4	100 mm	each	14.73
8.103	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws:		-
8.103.1	125 mm	each	45.54
8.103.2	100 mm	each	40.63
8.103.3	75 mm	each	20.09
8.104	Providing and fixing M.S. bright finished or black enameled hooks and eyes with necessary iron screws:		-
8.104.1	300 mm	each	16.07
8.104.2	250 mm	each	13.84
8.104.3	200 mm	each	11.61
8.104.4	150 mm	each	9.82
8.104.5	100 mm	each	6.96
8.105	Providing and fixing M.S. bright finished or black enameled safety hasp and staples with necessary iron screws:		-
8.105.1	150 mm	each	31.70
8.105.2	115 mm	each	12.05
8.105.3	90 mm	each	10.27
8.106	Providing and fixing MS bright finished single hanging door stopper with necessary MS steel screws complete.	each	11.16

8.107	Providing and fixing powder coated M.S. butt hinges with necessary iron screws:		-
8.107.1	125x65x2.12 mm	each	32.59
8.107.2	100x58x1.90 mm	each	21.88
8.107.3	75x47x1.7 mm	each	14.73
8.107.4	50x37x1.5 mm	each	8.30
8.108	Providing and fixing powder coated M.S. parliamentary hinges with necessary iron screws:		-
8.108.1	150x125x27x2.8mm	each	72.77
8.108.2	125x125x27x2.8mm	each	62.95
8.108.3	100x125x27x2.8 mm	each	52.68
8.108.4	75x100x20x2.24 mm	each	35.27
8.109	Providing and fixing powder coated M.S. piano hinges with necessary iron screws:		-
8.109.1	Overall width 35mm	each	87.05
8.109.2	Overall width 50 mm	each	99.11
8.109.3	Overall width 65 mm	each	131.25
8.110	Providing and fixing powder coated M.S. pull bolt lock size 85x42mm with bolts, nut and necessary iron screws.	each	33.04
8.111	Providing and fixing powder coated M.S. Safety chain with necessary fixtures for doors. (Weighing not less than 200 gms.)	each	28.13
8.112	Providing and fixing powder coated M.S. sliding door bolts with bolts, nuts and necessary iron screws:		-
8.112.1	300x16 mm	each	120.54
8.112.2	250x16 mm	each	113.39
8.113	Providing and fixing powder coated M.S. door latch with necessary iron screws:		-
8.113.1	300x20x16 mm	each	41.07
8.113.2	250x20x16 mm	each	36.61
8.114	Providing and fixing powder coated M.S. pull bolt lock of size 85 x 12mm with necessary bolts, nuts and necessary iron screws.	each	30.36
8.115	Providing and fixing powder coated M.S. tower bolts (Barrel type) with necessary iron screws:		-
8.115.1	250 x10mm	each	37.95
8.115.2	200 x10mm	each	29.91
8.115.3	150 x10mm	each	24.55
8.115.4	100 x10mm	each	16.96
8.116	Providing and fixing powder coated M.S. handles with necessary iron screws:		-
8.116.1	125 mm	each	54.91
8.116.2	100 mm	each	40.63
8.116.3	75 mm	each	30.80
8.117	Providing and fixing powder coated M.S. hooks and eyes necessary iron screws:		-
8.117.1	300 mm	each	39.73
8.117.2	250 mm	each	66.07
8.117.3	200 mm	each	79.91
8.117.4	150 mm	each	93.75
8.117.5	100 mm	each	107.14
8.118	Providing and fixing powder coated M.S. hasp and staples (Safety type) necessary iron screws:		-
8.118.1	150 mm	each	33.04
8.118.2	115 mm	each	12.50

8.118.3	90 mm	each	11.16
8.119	Providing and fixing powder coated MS hanging door stopper with necessary powder coated MS steel screws complete.	each	13.39
8.120	Providing and fixing aluminium sliding door bolts with 16mm rod, necessary nickel plated iron nuts bolts and screws etc complete.		-
8.120.1	300x16mm	each	150.89
8.120.2	250x16mm	each	125.89
8.121	Providing and fixing aluminium door latch with 12mm rod, necessary nickel plated iron nuts bolts and screws etc complete.		-
8.121.1	300x12mm	each	63.39
8.121.2	250x12mm	each	45.98
8.122	Providing and fixing aluminium tower bolts (Barrel type) with necessary nickel plated iron screws etc complete.		-
8.122.1	250 x10mm	each	62.95
8.122.2	200 x10mm	each	51.34
8.122.3	150 x10mm	each	39.73
8.122.4	100 x10mm	each	27.68
8.122.5	75 x10mm	each	21.88
8.123	Providing and fixing aluminium door handles 2.5mm thick with necessary nickel plated iron screws etc complete.		-
8.123.1	150 mm	each	27.23
8.123.2	125 mm	each	23.21
8.123.3	100 mm	each	19.20
8.124	Providing and fixing hanging aluminium door stopper with necessary nickel plated iron screws etc complete.		-
8.124.1	Single	each	23.66
8.124.2	Double	each	33.04
8.125	Providing and fixing aluminium door mounted door stopper with necessary nickel plated iron screws etc complete.		-
8.125.1	100 mm long	each	40.18
8.125.2	75 mm long	each	34.38
8.125.3	60 mm long	each	28.57
8.125.4	50 mm long	each	22.77
8.126	Providing and fixing powder coated aluminium sliding door bolts with 16mm rod, necessary M.S. nuts bolts and screws etc complete.		-
8.126.1	300x16mm	each	156.25
8.126.2	250x16mm	each	133.93
8.127	Providing and fixing powder coated aluminium door latch with 12mm rod, necessary M.S. nuts bolts and screws etc complete.		-
8.127.1	300x12mm	each	66.96
8.127.2	250x12mm	each	48.66
8.128	Providing and fixing powder coated aluminium tower bolts (Barrel type) with necessary M.S. screws etc complete.		-
8.128.1	250 x10mm	each	66.52
8.128.2	200 x10mm	each	53.57
8.128.3	150 x10mm	each	41.52
8.128.4	100 x10mm	each	28.57
8.128.5	75 x10mm	each	22.77
8.129	Providing and fixing powder coated aluminium door handles 2.5mm thick with necessary M.S. screws etc complete.		-

8.129.1	150 mm	each	28.57
8.129.2	125 mm	each	24.55
8.129.3	100 mm	each	20.09
8.130	Providing and fixing hanging powder coated aluminium door stopper with necessary M.S. screws etc complete.		-
8.130.1	Single	each	24.55
8.130.2	Double	each	34.38
8.131	Providing and fixing powder coated aluminium door mounted door stopper with necessary M.S. screws etc complete.		-
8.131.1	100 mm long	each	41.96
8.131.2	75 mm long	each	35.71
8.131.3	60 mm long	each	29.46
8.131.4	50 mm long	each	23.66
8.132	Providing and fixing stainless steel butt hinges IS : 12817 marked with necessary stainless steel screws etc complete.		-
8.132.1	150x2.5mm (heavy)	each	87.05
8.132.2	125x2.5mm (heavy)	each	68.30
8.132.3	100x2.5mm (heavy)	each	46.88
8.132.4	75x2.5mm (heavy)	each	30.80
8.132.5	125x1.9mm (light)	each	53.57
8.132.6	100x1.7mm (light)	each	35.71
8.132.7	75x1.7mm (light)	each	25.00
8.133	Providing and fixing stainless steel cutt hinges having thickness 1.2mm necessary stainless steel screws etc complete.		-
8.133.1	75x19x13mm	each	19.64
8.133.2	60x19x13mm	each	19.20
8.133.3	50x15x10mm	each	17.86
8.134	Providing and fixing stainless steel narrow hinges having thickness 1.2mm necessary stainless steel screws etc complete.		-
8.134.1	75x18x18mm	each	20.09
8.134.2	60x18x18mm	each	19.20
8.134.3	75x15x15mm	each	19.64
8.134.4	60x15x15mm	each	19.20
8.135	Providing and fixing stainless steel parliamentary hinges having thickness 2.5mm necessary stainless steel screws etc complete.		-
8.135.1	150x100mm	each	119.64
8.135.2	125x100mm	each	106.25
8.135.3	100x100mm	each	91.96
8.135.4	75x100mm	each	79.91
8.136	Providing and fixing stainless steel piano hinges with necessary stainless steel screws etc complete.		-
8.136.1	Overall width 35mm	each	123.21
8.136.2	Overall width 25 mm	each	109.82
8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete.		-
8.137.1	300mm	each	212.50
8.137.2	250mm	each	203.57
8.138	Providing and fixing stainless steel door latch with 12mm rod, 2.5mm thick flap, necessary stainless steel screws etc complete.		-

8.138.1	300mm	each	82.59
8.138.2	250mm	each	75.89
8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.		-
8.139.1	250 x10mm	each	86.61
8.139.2	200 x10mm	each	62.95
8.139.3	150 x10mm	each	51.34
8.139.4	100 x10mm	each	36.61
8.139.5	75 x10mm	each	32.14
8.140	Providing and fixing stainless steel door handles having flap thickness 2.5mm, necessary stainless steel screws etc complete.		-
8.140.1	150 mm	each	21.88
8.140.2	125 mm	each	20.09
8.140.3	100 mm	each	19.64
8.141	Providing and fixing Stainless steel "D" shape door handles made of 10mm dia rod with necessary stainless steel screws etc complete.		-
8.141.1	200 mm	each	57.14
8.141.2	150 mm	each	44.20
8.141.3	125 mm	each	37.50
8.141.4	100 mm	each	31.25
8.141.5	75 mm	each	24.55
8.142	Providing and fixing stainless steel hooks and eyes with 5.6mm dia rod with necessary stainless steel screws etc complete.		-
8.142.1	200 mm	each	24.11
8.142.2	150 mm	each	22.77
8.142.3	125 mm	each	20.98
8.142.4	100 mm	each	19.64
8.143	Providing and fixing stainless steel hanging door stopper with necessary stainless steel screws complete.		-
8.143.1	Single	each	41.96
8.143.2	Double	each	58.04
8.144	Providing and fixing stainless steel fixed stopper with necessary stainless steel screws complete.		-
8.144.1	100 mm long	each	86.16
8.144.2	75 mm long	each	72.32
8.144.3	60 mm long	each	65.63
8.144.4	50 mm long	each	58.04
8.145	Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete.		-
8.145.1	Triple strip vertical type.	each	18.75
8.145.2	Double strip (horizontal type).	each	14.73
8.146	Providing and fixing powder coated telescopic drawer channels with necessary screws etc. complete as per directions of Engineer-in-charge.		-
8.146.1	300 mm long	pair	160.71
8.146.2	400 mm long	pair	211.61
8.146.3	500 mm long	pair	263.39
8.147	Providing and fixing sliding arrangement in racks/ cupboards/ cabinets shutter by P/F stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)	each	12.95

8.148	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance $\pm 1\text{mm}$) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge		-
8.148.1	Extruded section Profile size 48x40 mm.	metre	170.54
8.148.2	Extruded section Profile size 42x50 mm.	metre	175.00
8.149	Providing and fixing factory made PVC door shutters of specified thickness made of styles and rails of a UPVC hollow section of specified size 59x24 mm and wall thickness $2\text{ mm} \pm 0.2\text{ mm}$ with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws.		-
8.149.1	24 mm thick door shutters with styles and rails of size 59x24 mm	sqm	2,141.96
8.149.2	30 mm thick door shutters with styles and rails of size 60x30 mm	sqm	2,221.43
8.150	Providing and fixing factory made 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of $1\text{mm} \pm 0.3\text{mm}$. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification.	sqm	2,306.25
8.151	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.	metre	308.93

8.152	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per Manufacturer's specification including 3 nos ISI marked stainless steel hinges of size 100x58x1.9 mm complete. (for W.C. and bathroom door shutter).			-
8.152.1	PVC door shutter	sqm		2,069.64
8.152.2	Both side Pre-laminated panel PVC door shutter	sqm		2,528.57
8.153	Providing and fixing 30 mm thick Glass Fibre Reinforced Plastic (FRP) paneled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 thick FRP laminate for panels confirming to IS: 14856 - 2000, complete.	sqm		1,885.71
8.154	Providing and fixing 30mm thick fibreglass reinforced plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000, complete.	sqm		2,316.96
8.155	Providing and fixing factory made Pre-laminated particle board flat pressed three layer or graded wood particle board shutter (25 mm thick) with one side decorative finish and other side balancing lamination conforming to IS: 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all-round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws including fixing of stainless steel hinges 100x1.7mm etc complete as per direction of Engineer-in-Charge	sqm		3,109.82
8.156	Providing and fixing cupboard shutters 25mm thick, with Pre-laminated flat pressed with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25mm thick confirming to IS:14587 including IInd class teak wood lipping of 25mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges complete as per direction of the Engineer-in-Charge.	sqm		1,597.32

8.157	Providing and fixing aluminum U beading of required size to Pre-laminated /flush door shutter including fixing etc. complete as per direction of Engineer-in-charge.	kg	455.36
8.158	Providing and fixing IS: 3564 marked aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc complete.	each	1,294.64
8.159	Providing and fixing IS: 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc complete.	each	940.18
8.160	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanized M.S screws including drilling holes in masonry work /CC/ R.C.C by drilling machine and making good etc complete.		-
8.160.1	25 mm long	each	13.39
8.160.2	32 mm long	each	18.75
8.160.3	40 mm long	each	24.55
8.160.4	50 mm long	each	26.79
8.161	Supplying and fixing teak wood fillets (10 mm x 10 mm size) including nails etc complete.	metre	24.11
8.162	Providing and fixing factory made Fibreglass Reinforced plastics (F.R.P.) chajja 4mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2nos. Vertically and 1nos. Horizontally 50x2mm thick M.S. flat with 12mm in built hole for grouting on the existing wall along with the 50mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746 duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.	sqm	4,528.57
9	STEEL AND ALUMINIUM WORK		-
9.1	Structural steel work in single section including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	kg	54.91
9.2	Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.	Kg	58.93
9.3	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.		-
9.3.1	Electric resistance or induction butt welded tubes Grade-250	kg	79.02
9.3.2	Electric resistance or induction butt welded tubes Grade-300	kg	83.48
9.4	Extra for curvature in making steel work in tubular structure in built-up sections, trusses and frame work	kg	2.05
9.5	Extra for hoisting trusses and placing in position over height above 5m for every 2.5 m height or part thereof.	kg	2.41
9.6	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.		-

9.6.1	In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.	Kg	62.50
9.6.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	60.71
9.7	Providing and fixing M.S. round holding down bolts with nuts, washer and plate in cement concrete complete.	kg	63.84
9.8	Providing and fixing M.S. rivets of sizes in position	kg	81.70
9.9	Welding by gas plant.	cm	1.88
9.10	Welding by electric plant.	cm	1.52
9.11	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	sqm	2,973.21
9.12	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	kg	63.84
9.13	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.	kg	66.96
9.14	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	kg	70.98
9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.	kg	60.27
9.16	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.		-
9.16.1	"T" –iron frames	kg	66.07
9.16.2	Angle-iron frames	kg	65.63
9.16.3	MS tubular frames	kg	71.88
9.17	Providing and fixing factory made ISI marks steel doors, windows and ventilators side/ top/ centre hung made up of standard rolled steel section conforming to IS 1038:1968 (viz. F7D, F4B, K11 and K12B etc.), joints mitred and flash butt and sash bars tenoned and riveted/ welded with 10 cm long lugs of size 15x3mm embedded in cement concrete block 15x10x10 cms of 1:3:6 (1 cement :3 Coarse sand: 6 graded stone aggregate 20 mm nominal size) or rawl plugs and screws or with bolts and nuts as required including providing and fixing of hinges, pivots, handles, pegs, stays, rolling devices, locking arrangements, spring catch etc., as required complete including applying a priming coat of red oxide zinc chromate primer.	kg	78.57

9.18	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.		-
9.18.1	Single rebate/ mullion 80mmx50mm size, 1.25mm thick sheet	metre	322.32
9.18.2	Single rebate/ mullion 80mmx50mm size, 1.6mm thick sheet	metre	388.39
9.18.3	Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.	metre	349.11
9.18.4	Single rebate/ mullion 100mmx50mm size, 1.6mm thick sheet.	metre	423.21
9.18.5	Double rebate 115mmx50mm size, 1.6mm thick sheet	metre	471.43
9.19	Providing and fixing in position door shutter made of square/ rectangular hollow steel tube of approved size joint mitred, welded frame with two Nos. intermediate rails, 200mm wide lock rail made of 1.6mm thick M.S. sheet welded to intermediate rail, M.S. grill of approved pattern made of M.S. flat or square or round bars welded to frames and provided M.S. butt hinges, all necessary fitting and finished by filling putty including applying a priming coat of red oxide zinc chromate primer all complete. (To be used in safety door shutters in buildings)	kg	83.48
9.20	Fixing standard steel doors, windows, and ventilators in walls with 10 cm long lugs of size 15x3mm embedded in cement concrete block 15x10x10cm size 1:3:6 (1 Cement : 3 Sand : 6 Stone aggregate 20 nominal size) or rawl plugs and screws or with bolts and nuts as required (steel windows with lugs shall be supplied by department).	sqm	8.93
9.21	Providing and fixing float glass panes with steel glazing clips and special metal sash putty of approved make in steel doors, windows, ventilators:		-
9.21.1	4mm thick	sqm	477.68
9.21.2	5mm thick	sqm	563.39
9.21.3	6mm thick	sqm	649.11
9.22	Providing and fixing 3 mm fibre glass pane with steel glazing clips and special metal sash putty of approved make in steel doors, windows, ventilators.	sqm	605.36
9.23	Providing and fixing frosted glass panes with steel glazing clips and special metal sash putty of approved make in steel doors, windows, ventilators:		-
9.23.1	4 mm thick	sqm	539.29
9.23.2	5 mm thick	sqm	640.18
9.23.3	6 mm thick	sqm	777.68
9.24	Providing and fixing tinted glass panes with steel glazing clips and special metal sash putty of approved make in steel doors, windows, ventilators:		-
9.24.1	4 mm thick	sqm	573.21
9.24.2	5 mm thick	sqm	683.04
9.24.3	6 mm thick	sqm	824.11
9.25	Providing and fixing sun glass film over glazed doors windows & ventilators etc. complete	sqm	282.14

9.26	Extra for providing and fixing mild steel beading of size 15x3mm with screws instead of glazing clips and metal sash putty in steel doors, windows, ventilators and composite units.	metre	28.13
9.27	Supplying and fixing rolling shutter of approved makes made of M.S. laths interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and out side locking with push and pull arrangement complete but excluding the cost of top cover and spring.		-
9.27.1	80x1.25mm M.S. Laths	sqm	1,509.82
9.27.2	80x1.20mm M.S. Laths	sqm	1,401.79
9.27.3	80x0.90mm M.S. Laths	sqm	1,325.89
9.28	Providing and fixing 27.5cm long wire spring for rolling shutters.	each	323.21
9.29	Providing and fixing M.S. sheet top cover for rolling shutter		-
9.29.1	1.25mm thick	sqm	482.14
9.29.2	1.20mm thick	sqm	473.21
9.29.3	0.90mm thick	sqm	356.25
9.30	Providing and fixing ball bearing for rolling shutters.	each	377.68
9.31	Providing and fixing mechanical device chain and crank operation for operating rolling shutters.	set	5,064.29
9.32	Extra for providing grilled rolling shutter manufactured out of 8 mm dia. M.S. bar instead of laths as per approved design (area of grill provided, only to be measured).	sqm	291.96
9.33	Providing and fixing GI wire gauge of average width of aperture 1.56mm with wire of 0.45mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.	sqm	508.04
9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.	sqm	706.25
9.35	Providing and fixing approved pipe hand rail by welding to iron railing including applying a priming coat of red oxide zinc chromate primer.		-
9.35.1	M.S Pipe	kg	71.88
9.35.2	E.R.W. pipe	kg	80.36
9.35.3	G.I. pipe	kg	83.04
9.36	Providing and fixing approved pipe hand rail to walls (ramps, stair cases) including cutting chases and repairing the same to original condition, applying a priming coat of red oxide zinc chromate primer.		-
9.36.1	M.S Pipe	kg	63.39
9.36.2	E.R.W. pipe	kg	70.54
9.36.3	G.I. pipe	kg	75.45
9.37	Providing and fixing M.S. fan clamp/hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.	each	86.61
9.38	Providing and fixing broken glass 100 mm high in spacing not more than 40 mm both ways and laid in 50 mm thick (average) cement mortar 1:4 (1 cement : 4 coarse sand) over compound walls, parapet walls and the like.	sqm	239.29
9.39	Providing and fixing in position G.I. barbed wire (93.8gram/m) to concrete/ wooden/ angle iron posts (straight or diagonal) including securing and screwing with G.I. tying wire, G.I. staples, G.I.U-nails or steel pins etc., complete(Cost of posts, struts to be paid for separately)	metre	8.39

9.40	Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in-charge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	metre	146.43
9.41	Providing and fixing concertina fencing with reinforced barbed tape (R.B.T.) up to 3m height of wall with existing angle iron in any shape in one or more rows in horizontal/ vertical/inclined alignment tied with G.I. staples and G.I. clips including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in-charge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)(RBT tape to be measured for each row)	metre	12.50
9.42	Providing and fixing in position welded steel wire fabric to concrete/ wooden/ angle iron posts including securing and screwing with G.I. tying wire, G.I. staples, G.I.U-nails or steel pins etc., complete		-
9.42.1	Aperture 75x25mm	sqm	491.96
9.42.2	Aperture 50x25mm	sqm	508.04
9.42.3	Aperture 50x50mm	sqm	477.68
9.42.4	Aperture 75x75mm	sqm	446.43
9.42.5	Aperture 100x100mm	sqm	400.00
9.43	Providing and fixing in position chain linked steel wire fabric made of 4 mm dia G.I. wire of required width in mesh to concrete/ wooden/ angle iron posts including securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins etc., complete.		-
9.43.1	Aperture 50x50mm	sqm	295.54
9.43.2	Aperture 75x75mm	sqm	259.82
9.44	Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete.	Sqm	248.21
9.45	Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block.	Kg	62.05
9.46	Extra for powder coating (minimum 50 micron) on steel sections instead of red oxide zinc chromate primer	kg	21.88
9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:		21.88
9.47.1	For fixed portion	kg	295.54

9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).	Kg	301.79
9.48	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	Kg	24.11
9.49	Extra for polyester powder coated (minimum 50 micron) aluminium sections instead of anodized.	Kg	30.80
9.50	Providing and fixing 12mm thick pre-laminated particle board flat pressed with decorative lamination and balancing lamination on specified sides exterior Grade – I MDF Board 12 mm thick conforming to IS:14587, including fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete.		30.80
9.50.1	With decorative lamination on one side and balancing lamination on other side.	Sqm	754.46
9.50.2	With decorative lamination on both side	sqm	808.93
9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):		-
9.51.1	With float glass panes of 4 mm thickness	sqm	545.54
9.51.2	With float glass panes of 5 mm thickness	sqm	632.14
9.51.3	With float glass panes of 6 mm thickness	sqm	717.86
9.51.4	With float glass panes of 8 mm thickness	sqm	938.39
9.52	Providing and welding 1mm thick MS sheet on existing door/ window/ ventilator shutter frames including applying a coat of red oxide zinc cromate primer on both side.(MS strip if provided on periphery or as intermediate member shall be paid extra)	Sqm	522.32
9.53	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. complete.	sqm	2,820.54
9.54	Providing and fixing anodized aluminium framed grill (minimum anodic coating of grade AC 15)of of approved shape, pattern and design including cutting, bending, hoisting and erecting/ fixing to door, window frame or to wall with fixing clips or hold fasteners or bolts and nuts as required etc. complete.	kg	353.57
9.55	Providing and fixing of six/seven levers branded and approved mortise lock.	each	530.36
9.56	Providing and fixing of floor spring IS: marked (Everite, Door link or any equivalent make) with stainless steel cover plate	each	1,714.29
9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.		-
9.57.1	SS Grade 204	kg	416.96
9.57.2	SS Grade 304	kg	468.75
9.58	Extra for providing and fixing tinted glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass.		-
9.58.1	4 mm thickness	sqm	95.54
9.58.2	5 mm thickness	sqm	119.64
9.58.3	6 mm thickness	sqm	175.00
9.58.4	8 mm thickness	sqm	183.93

9.59	Extra for providing and fixing reflective glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass.		-
9.59.1	4 mm thickness	sqm	275.89
9.59.2	5 mm thickness	sqm	260.71
9.59.3	6 mm thickness	sqm	315.18
9.59.4	8 mm thickness	sqm	485.71
9.60	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.	kg	318.75
9.61	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately)		-
9.61.1	3mm thick	sqm	1,145.54
9.61.2	4mm thick	sqm	1,558.04
9.62	Providing and fixing laminated glass sheet of 8.76mm thickness in approved sizes on aluminium frame work on face of building. (Frame to be paid for separately).	sqm	2,333.04
10	ROOFING AND CEILING		-
10.1	Providing corrugated G.I. sheet roofing including vertical/curved surfaces fixed with galvanized iron, J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead including painting with primer and paint on overlapping of sheets complete excluding the cost of purlins rafters and trusses. (Zinc coating not less than 272 gms/sqm)		-
10.1.1	1.00 mm thick sheet (weight 8.60 kg/m ²)	sqm	860.71
10.1.2	0.80 mm thick sheet (weight 7.03 kg/m ²)	sqm	723.21
10.1.3	0.63 mm thick sheet (weight 5.70 kg/m ²)	sqm	605.36
10.1.4	0.5 mm thick sheet (weight 4.30 kg/m ²)	sqm	482.14
10.2	Extra for straight cutting in C.G.I. sheet roofing for making opening of area exceeding 0.40 sqm for chimney stacks, sky light etc.		-
10.2.1	1.00 mm thick sheet	sqm	20.54
10.2.2	0.80 mm thick sheet	sqm	19.20
10.2.3	0.63 mm thick sheet	sqm	16.52
10.2.4	0.50 mm thick sheet	sqm	13.84
10.3	Extra for racking or circular cutting in C.G.I. sheets roofing:		-
10.3.1	1.00 mm thick sheet	sqm	123.21
10.3.2	0.80 mm thick sheet	sqm	121.43
10.3.3	0.63 mm thick sheet	sqm	119.64
10.3.4	0.50 mm thick sheet	sqm	96.43
10.4	Extra for making opening or recesses in C.G.I. sheets roofing of girth not more than 1 metre.		-
10.4.1	Upto 100 sq.cm	each	23.66
10.4.2	Above 100 sq.cm. upto 400 sq.cm	each	41.52
10.4.3	Above 400 sq.cm. in area	each	66.07
10.5	Providing ridges or hips of 60cm overall width in plain G.I. sheet fixed with galvanized washers J or L hooks, bolts and nuts 8mm G.I. limpet and bitumen washers complete.		-

10.5.1	1.00 mm thick sheet with zinc coating not less than 275gm/sqm	metre	532.14
10.5.2	0.80 mm thick sheet with zinc coating not less than 275 gm/sqm	metre	475.89
10.5.3	0.63 mm thick sheet with zinc coating not less than 275gm/sqm	metre	397.32
10.5.4	0.50 mm thick sheet with zinc coating not less than 275 gm/sqm	sqm	339.29
10.6	Providing valley of 90cm overall width in plain G.I. sheet 1.6 mm thick with zinc coating not less than 350gm/sqm fixed with galvanized iron J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.	metre	940.18
10.7	Providing and flashing 38cm. over all width in plain G.I. sheet fixed, with galvanized iron J or L hooks bolts and nuts G.I. limpet washers and fixed in walls with cement mortar 1:3 (1 cement: 3 sand)		-
10.7.1	G.I. plain sheet 1.25mm thick (weight 10.56 kg/m ²)	metre	375.00
10.7.2	G.I. plain sheet 1.00 mm thick (weight 8.60 kg/m ²)	metre	334.82
10.8	Providing and fixing flat iron brackets with bolts and nuts for holding G.I. sheet/ A.C. gutters.15 cm wide and 45 cm to 60cm over all semi circular portion.		-
10.8.1	40x3mm	each	64.73
10.8.2	50x3 mm	each	75.00
10.9	Providing and fixing 15 cm. wide 45cm. overall semi circular plain G.I. sheet gutter with iron brackets 40x3 mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipe complete as per designs.		-
10.9.1	0.80 mm thick sheet	metre	378.57
10.9.2	0.63 mm thick sheet	metre	340.18
10.10	Extra for providing and fixing wind ties of 40x6mm flat iron section.	metre	105.36
10.11	Supply and fixing of pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	567.86
10.12	Supply and fixing of polymer pre-coated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	618.75

10.13	Supply and fixing of pre-coated TILE PATTERN profile sheets of approved make, colour, over all size, corrugation shape and pitch, having total coated thickness (TCT) 0.45 mm (approx weight 4.9 kg/sqm) with Zn-Al coating and superior paint and having yield strength of 550 MPa. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	841.07
10.14	Providing and fixing 2mm thick semi transparent polycarbonate profile roofing sheet of approved make and colour to make any normal roofing / covering and fixing as per manufacture specification at spacing not more than 1.2 m centre to centre with EPDM gasket and silicon sealant fixed with self drilling stainless steel screws all complete as per direction of Engineer-in-Charge.	sqm	1,696.43
10.15	Extra for working height above 6 metre for fixing GI/ profile/ PVC/ polycarbonate sheet for every additional height of 1 metre of part thereof.	sqm	4.20
10.16	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :		-
10.16.1	Ridges plain (500-600mm)	metre	492.86
10.16.2	Flashings/ Aprons. (Upto 600 mm)	metre	481.25
10.16.3	North light curves.	metre	514.29
10.16.4	Barge board (Upto 300 mm)	metre	433.93
10.16.5	Crimp curve	metre	557.14
10.16.6	Gutter. (600 mm over all girth).	metre	561.61
10.17	Providing asbestos cement 6mm thick corrugated or semi corrugated sheets roofing fixed with galvanized J or L hooks, bolts and nuts 8mm dia G.I. plain bitumen washers complete excluding the cost of purlins, rafters and trusses.	sqm	309.82
10.18	Extra for asbestos cement corrugated/semi corrugated sheet roofing with vertical sheeting or sheeting to pitch exceeding 60 degree.	sqm	45.54
10.19	Extra for straight cutting in asbestos cement corrugated/ semi corrugated sheet roofing for making opening of area exceeding 0.40 sqm. for chimney stacks, sky light etc.	metre	39.29
10.20	Extra for racking or circular cutting in A.C. corrugated/ semi corrugated sheet roofing.	metre	51.34
10.21	Extra for making opening or recesses in asbestos cement corrugated/ semi corrugated sheet roofing of girth not more than 1 metre:		-
10.21.1	Not exceeding 100 sq.cm. in area	each	34.82
10.21.2	Exceeding 100 sq.cm but not exceeding 400 sq.cm in area	each	58.48
10.21.3	Exceeding 400 sq.cm. in area	each	83.04
10.22	Providing and fixing ridges and hips in asbestos cement sheet roofing with G.I., J or hooks, bolts and nuts 8 mm dia, G.I plain and bitumen washers complete.		-
10.22.1	Plain angular ridges	metre	48.66
10.22.2	Serrated or plain wing adjustable ridges	metre	58.48

10.23	Providing and fixing asbestos cement roofing accessories with galvanized iron J or L hooks, bolts and nuts and/or G.I. seam bolts & nuts, G.I. plain & bitumen washers etc. complete.		-
10.23.1	Apron flashing pieces	metre	65.18
10.23.2	Eaves filler pieces	metre	88.84
10.23.3	North light and ventilator curves	metre	94.64
10.23.4	Barge boards	metre	61.16
10.23.5	Ridge finials	pair	108.93
10.24	Providing & fixing UV stabilized fibreglass reinforced plastic (FRP) sheet roofing upto any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovings incorporating minimum 0.3% Ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		-
10.24.1	2mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified.	sqm	683.93
10.24.2	2 mm thick flat	sqm	629.46
10.25	Providing and fixing corrugated fibre glass sheet roofing in any shade/ colour fixed with G.I. 'J' hooks, bolts, nuts and washers etc. complete but excluding cost of purlins, rafters, trusses etc. with:		-
10.25.1	1.50mm thick fibre glass sheet	sqm	432.14
10.25.2	2.00mm thick fibre glass sheet	sqm	544.64
10.25.3	3.00mm thick fibre glass sheet	sqm	784.82
10.26	Providing and fixing plain fibre glass sheet roofing in any shade/ colour fixed with G.I. 'J' hooks, bolts, nuts and washers etc. complete but excluding cost of purlins, rafters, trusses etc. with:		-
10.26.1	1.50mm thick fibre glass sheet	sqm	396.43
10.26.2	2.00mm thick fibre glass sheet	sqm	502.68
10.26.3	3.00mm thick fibre glass sheet	sqm	714.29
10.27	Providing and fixing plain sheets ceiling with nails to the frame work for panels excluding frame work.		-
10.27.1	4 mm thick A.C. plain sheets	sqm	277.68
10.27.2	6 mm thick A.C. plain sheets	sqm	311.61
10.28	Providing and fixing semi transparent polycarbonate compact sheet roofing of approved colour to make any normal shape of roofing / covering of any pitch and fixing with specially designed powder coated aluminium section with 60mm wide flange of standard design weighing not less than 1.1 kg/ m at spacing not more than 1.2 m centre to centre with EPDM gasket and silicon sealant on all four edges of aluminium section fixed with self drilling stainless steel screws all complete including aluminium edge angle 40 mm x 40 mm x3mm as per manufacture specification and as per direction of Engineer-in-Charge.		-
10.28.1	6 mm thick twin wall	sqm	1,245.54
10.28.2	10 mm thick twin wall	sqm	1,583.93
10.28.3	10 mm thick triple wall	sqm	1,752.68
10.29	Providing and fixing 20mm thick wooden planks ceiling (frame work for base to be paid separately) with M.S. screws.		-
10.29.1	With teak wood.	sqm	1,917.86

10.29.2	With other than teak wood (Sal, bija, Haldu)	sqm	1,116.96
10.30	Providing and fixing 12 mm thick insulating board ceiling of approved quality with necessary nails etc., complete (Frame work to be paid separately).		-
10.30.1	Natural colour insulating board	sqm	111.61
10.30.2	White face insulating board	sqm	376.79
10.30.3	Flame retardant face insulating board	sqm	340.18
10.31	Providing and fixing 18mm thick insulating board ceiling of approved quality with necessary nails etc., complete (Frame work to be paid separately).		-
10.31.1	Natural colour insulating board	sqm	359.82
10.31.2	White face insulating board	sqm	435.71
10.31.3	Flame retardant face insulating board	sqm	399.11
10.32	Providing and fixing 3 mm thick hard board sheet ceiling of approved quality with necessary nails etc., complete (Frame work to be paid separately).		-
10.32.1	Standard Quality Board.	sqm	216.07
10.32.2	Design boards.	sqm	271.43
10.33	Providing and fixing 4.5mm thick hard board sheet ceiling of approved quality with necessary nails etc., complete (Frame work to be paid separately).		-
10.33.1	Standard Quality Board.	sqm	236.61
10.33.2	Design boards.	sqm	307.14
10.34	Extra for circular cutting in ceiling with.		-
10.34.1	Teak wood planks 20 mm thick	metre	25.45
10.34.2	Other than teak wood (Sal, Bija, Haldu)	metre	29.46
10.34.3	Insulating board 12 mm thick	metre	17.86
10.34.4	Insulating board 18 mm thick	metre	21.43
10.34.5	Hard board 3 mm thick	metre	11.61
10.34.6	Hard board 4.5 mm thick	metre	13.84
10.35	Providing and fixing square edges wooden beading 65x12mm section with screws of approved quality for ceiling.		-
10.35.1	With teak wood	metre	100.00
10.35.2	With other than teak wood (Sal, Bija, Haldu)	metre	66.96
10.36	Extra for making chamfered edges of beading.	metre	5.36
10.37	Extra for providing and fixing ceiling to curved surface in narrow width	sqm	81.70
10.38	Providing and laying split (half cut) 25mm dia bamboo jaffree 150mm mesh including tying to the purlins and rafters with moonj ban or string complete.	sqm	120.54
10.39	Providing and laying non-modular brick tiles of class designation 3.5 over mumty roofs grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat .	sqm	222.32
10.40	Painting top of roofs with bitumen of approved quality @ 17kg/10Sqm, including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete.	sqm	84.38
10.41	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :	metre	60.71

10.42	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx650 micron thick (0.65mm), finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edge sand making and finishing the outlet complete.	each	183.04
10.43	Providing and laying single wheel tilling without batten.	sqm	304.46
10.44	Providing and laying single wheel tiling over and including half split (splitted into 2 pieces) bamboo batten 50 to 70 mm at a distance of 200mm both side.	sqm	772.32
10.45	Providing and laying single wheel tiling over and including whole bamboo batten 50 to 70 mm at a distance of 200mm both side.	sqm	890.18
10.46	Providing and laying Manglore pattern tiles 20 mm thick (without hip or ridge tiles) on steel/ wooden frame (frame work to be paid separately)	sqm	528.57
10.47	Providing and laying Manglore pattern hips and ridge tiles fixed in cement mortar 1:6 etc. complete	metre	116.07
10.48	Providing and fixing Terracota tiles of approved design and size over and including 20mm thick cement plaster 1:3 including floating coat of cement slurry on bed and filling joints with neat cement slurry mixed with pigment to match the shade of tiles complete.	sqm	469.64
10.49	Providing and fixing ISI Marked designer tiles of approved design and size confirming to IS: 13801 over and including 20mm thick cement plaster 1:3 including floating coat of cement slurry on bed and filling joints with neat cement slurry mixed with pigment to match the shade of tiles complete.	sqm	894.64
10.50	Providing and fixing 100 mm diameter and 60 cm long stone ware rain water spout in cement mortar 1:4 (1 cement : 4 fine sand)	each	54.91
10.51	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 150mm diameter and weighing not less than 440 grams.	each	50.89
10.52	Providing and fixing false ceiling on existing frame work with ceiling tiles.		-
10.52.1	12mm thick unveneered Nova teak or equivalent super plain tiles	sqm	446.43
10.52.2	12 mm thick half random perorated tiles Perforated area 5%	sqm	394.64
10.52.3	12 mm thick half random perorated tiles perforated area 13%	sqm	427.68
10.52.4	12.5 mm thick Glass fibre reinforced Gypsum board.	sqm	265.18
10.53	Providing 10mm thick plaster of paris (Gypsum anhydrous) ceiling height of 5m. above floor level over strips (Sal, Bija, Haldu) 25x6mm with 10mm gap in between and reinforced with rabbit wire mesh fixed into wooden frame (Frame work to be paid separately)		-
10.53.1	Flat surface	sqm	758.04
10.53.2	Curved surface	sqm	799.11
10.54	Extra for sunk or raised mouldings in the Gypsum board/ plaster of paris false ceiling.	sqm	165.18
10.55	Extra for providing plaster of paris (Gypsum and anhydrous) with ceiling above 5 m height from floor level.	sqm	46.43
10.56	Providing and fixing 12mm thick plaster of paris (Gypsum Anhydrous) with ceiling upto a height of 5 M. above floor level over wooden frame and rendering smooth with plaster of paris (Frame work to be paid separately).	sqm	170.54
10.57	Extra for providing and fixing ceiling to curved surfaces in narrow width.	metre	81.70

10.58	Extra for providing 3 mm thick translucent white acrylic plastic sheets of approved quality in false ceiling instead of 12 mm thick plain/or with design particle board ceiling tiles in item above.	sqm	408.04
10.59	Providing and fixing steel frame work for partition wall made from steel rectangular tube of 50x25mmx1.25mm (wall thickness) with welded joints complete with grinding the welded joints. The members of the frame work along the wall/floor/ceiling shall form a grid of not more than 1100mmx1100mm centre to centre of member in any direction and are to be screwed using 75x10 mm wood screws to the prefixed wooden plugs at an interval of not more than 500mm centre to center. The vertical members to be grouted in the floor upto 50mm deep including repairing of wall/floor/ceiling with 1:3 Cement mortar.	kg	83.93
10.60	Providing and fixing steel grid for false ceiling made from M.S. rectangular hollow tubes of 50x25x1.25mm (wall thickness) as main runners to be jointed to cross runners of same size by electric arc welding with spacing not exceeding 610x610mm in any direction. The frame to be screwed to the wall using wooden plugs and wood screws of size 50x8mm at an interval of not more than 300mm centre to centre. The grid to be supported using 6mm M.S. hanger bars at 1200mm centre to centre both ways bent, hooked, fixed to existing R.C.C. roof with fastner or to the truss as the case may be and bolted to the grid with the help of suitable M.S. holding cleats, complete.	kg	90.18
10.61	Providing and fixing at all height false ceiling consisting of frame work "W" / "U" / "L" sections made of G.I. sheet with zinc coating of grade 120 consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.55mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed including providing and fixing 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part-I all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting.	sqm	587.50

10.62	<p>Providing and fixing Gypsum board wall paneling consisting of frame work "W" / "U" / "L" sections made of G.I. sheet with zinc coating of grade 120 consisting of G.I. section, 'W' profile (0.55mm thick) having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.5 mm placed at 610mm center to center in perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm fixed on the floor and the ceiling with the nylon sleeves with fully threaded self-tapping drive all screws, and 12.5mm Gypsum board conforming to IS: 2095 - 1996: Part - I, fixed to 'W' profile with 25 mm countersunk ribbed head screws at 200mm center to center, joints of the boards are finished with specially formulated jointing compound and 48mm wide fibre tape to provide seamless finish all complete as per the drawing & directions of Engineer-in-charge.</p>	sqm	495.54
10.63	<p>Providing and fixing 97mm thick Gypsum board partition upto ceiling height consisting of frame work "W" / "U" / "L" sections made of G.I. sheet with zinc coating of grade 120, consisting of floor and ceiling channel 50mm wide having equal flanges of 32mm and 0.55mm thick fixed to the floor and ceiling at the spacing of 610mm centre to centre with dash fastener of 12.5mm diameter 40mm length and the studs 48mm wide having one flange of 34mm and other flange 36mm and 0.55mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6mm dia bolts and nuts at both ends of partition fixed flush to wall with rawl plugs at spacing of 450mm centre to centre and fixing of boards to either side of frame work by 25mm dry wall screws on studs, floor and ceiling channels at the spacing of 300mm centre to center and 97mm thick Gypsum board which includes one layer of tapered edge 12.5mm thick Gypsum plaster board (conforming I.S. 2095-1982) screw fixed with 25mm screws at 300mm centre to centre to either side, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, joint finisher and two coats of primer suitable for board as per manufacture's specification and Direction of Engineer-in-charge all complete.</p>	sqm	676.79
10.64	<p>Providing and fixing of aluminium panel false ceiling of approved colour consisting of panels 300mm wide x 30 mm deep x 0.7mm thick with bevel edge and length up to 6.0 metre. The panels are made from corrosion resistance aluminium alloy AA 3005 (Al. Mg) (for higher strength and good roll forming characteristics) sheet chromatised for maximum bond between metal and paint, enamel painted twice under high temperature, one side with a full primer and finish coat and the other side (inner side) with a primer coating and Skin Coat on a Continuous Paint Line.</p> <p>Panel shall be fixed by clipping to panel carrier of size 41.5mm wide x 62mm deep x 0.95mm thick in standard length of upto 5 metre made of doubled baked black enamelled aluminium alloy AA 5050 (Al. Mg) with cut outs to hold the 300mm wide panels fixed at a distance of 0.3 m from wall and 2.4 m from centre to center.</p> <p>Panel carrier shall be suspended by means of G.I. suspension rod 4mm dia and a Galvanised suspension spring clip at a distance of 1.7 m centre to center.</p> <p>Wall trim box of size 15x30x15mm made from 0.4mm thick aluminium alloy sheet to be provided all along the wall to hold panels</p> <p>(only surface area of false ceiling is to be measured and no deductions for lights, diffusers, columns etc shall be made)</p>		-

10.64.1	With long Plain panels	sqm	3,933.04
10.64.2	With long perforated panels having perforation with 2.0mm dia and 5mm center to center and pasted with non woven tissue on the back side	sqm	4,290.18
10.65	<p>Providing and fixing of aluminium tile false ceiling comprising of Tile of size 600 x 600mm x 0.7mm. The Tile ends will be raised with pips and stops to ensure positive engagement into the spring to enable for de-mounting of individual panels. The Tile sides will be sufficiently high to ensure a minimum deflection across the length of Tile. All Tiles will be bevel edged. The Tile shall be powder coated. The Tile shall be clipped into clip-in profile made of 0.5mm thick G.I sheet. The clip-in profile shall be supported from slab by means hold on clamp with clip and 4mm dia G.I. rod fixed to ceiling rigidly.</p> <p>Wall trim box of size 15x30x15mm made from 0.4mm thick aluminium alloy sheet to be provided all along the wall to hold panels</p> <p>(only surface area of false ceiling is to be measured and no deductions for lights, diffusers, columns etc shall be made)</p>		-
10.65.1	With Plain tiles	sqm	2,556.25
10.65.2	With perforated tiles having perforation with 2.5mm dia and 5mm center to center and pasted with non woven tissue on the back side	sqm	3,266.96
11	PLASTERING AND POINTING		-
11.1	Providing and making 6mm thick cement plaster of mix:		-
11.1.1	In Cement mortar 1:3 (1 cement : 3 fine sand)	sqm	83.04
11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)	sqm	77.68
11.2	Providing and making 12mm thick cement plaster of mix:		-
11.2.1	In cement Mortar 1:3 (1 cement : 3 fine sand)	sqm	102.68
11.2.2	In Cement Mortar 1:4 (1 cement : 4 fine sand)	sqm	91.96
11.2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)	sqm	86.16
11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	sqm	81.70
11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:		-
11.3.1	In cement Mortar 1:3 (1 cement : 3 fine sand)	sqm	119.64
11.3.2	In Cement Mortar 1:4 (1 cement : 4 fine sand)	sqm	107.14
11.3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)	sqm	100.89
11.3.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	sqm	95.54
11.4	Providing and making 20mm thick cement plaster on stone masonry of mix:		-
11.4.1	In cement Mortar 1:3 (1 cement : 3 fine sand)	sqm	146.43
11.4.2	In Cement Mortar 1:4 (1 cement : 4 fine sand)	sqm	129.46
11.4.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)	sqm	121.43
11.4.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	sqm	113.39
11.5	Neat Cement punning.	sqm	29.46
11.6	Providing and making 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and a thick coat of lime wash on top of wall when dry for bearing of R.C.C. slab and beam.	sqm	93.75
11.7	Providing and making 18 mm thick cement plaster with under layer of 12mm thick cement plaster 1:5 (1 cement : 5 fine sand) finished with a top layer of 6mm thick cement plaster 1:3 (1 cement : 3 fine sand).	sqm	145.54

11.8	Providing and making 18mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:5 (1 cement : 5 fine sand) and top layer of 6mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge.	sqm	149.11
11.9	Extra for providing and mixing water proofing materials in cement plaster work in proportion as recommended by manufacturer.	kg	38.84
11.10	Providing and mixing in cement mortar, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 6 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer.	kg	326.79
11.11	Extra for plastering of exterior walls when height exceeds 10m above ground level for every additional height of 3.0m or part thereof.	sqm	20.09
11.12	Extra for plastering on circular work not exceeding 6.0 meters in radius.	sqm	7.95
11.13	Extra for plastering done on mouldings, cornices or architraves including neat finish to line and level.	sqm	119.64
11.14	Providing and making 18 mm terrazzo finish plastering rubbed and polished complete with under layer of 12mm thick cement plaster 1:3 (1 cement : 3 fine sand) and top layer of 6mm thick white or black or white and black marble chips of 3mm and down size laid in proportion of 4:7 (4 cement : 7 Marble chips) by volume.	sqm	443.75
11.15	Extra for 18 mm terrazzo finish plastering on circular work not exceeding 6m in radius.	sqm	24.55
11.16	Extra for using chocolate grey or yellow marble chips instead of white/ black marble chip in top layer of terrazzo finish plaster.	sqm	6.79
11.17	Extra for using Baroda green marble chips instead of white/ black marble chip in top layer of terrazzo finish plaster.	sqm	6.79
11.18	Extra for using white cement instead of ordinary cement in top layer of terrazzo finish plaster.	sqm	35.71
11.19	Extra for adding red chocolate, orange or buff (Yellow) colour pigment in grey or white cement in top layer of terrazzo finish plaster.	sqm	9.82
11.20	Extra for adding blue or green colour pigment in grey or white cement in top layer of terrazzo finish plaster.	sqm	7.68
11.21	Extra for adding black colour pigment in grey or white cement in top layer of terrazzo finish plaster.	sqm	4.20
11.22	Providing and laying 27 mm thick washed stone grit plaster on exterior walls of height upto 10m above ground level in two layers, under layer 15mm thick plaster in cement mortar 1:4 (1 cement : 4 fine sand) furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per sqm, top layer 12mm thick cement concrete 1:1 (1 Cement: 1 Marble stone chips by weight 10mm nominal size) in panels with groove (size 1cm. x1cm) all around as per approved pattern including scrubbing and washing the top layer with brushes and water to expose the stone chippings complete (Payment for providing grooves shall be made separately).	sqm	281.25
11.23	Extra for providing aluminium channels of size 15mmx10mmx1.5mm in place of sunk and band panels.	metre	59.82
11.24	Extra for using chocolate grey or yellow marble chips instead of white/ black marble chip in top layer of grit finish plaster	sqm	16.96
11.25	Extra for using Baroda green marble chips instead of white/ black marble chip in top layer of grit finish plaster	sqm	16.96
11.26	Extra for using white cement instead of ordinary cement in top layer of grit finish plaster.	sqm	88.84
11.27	Extra for adding red, chocolate, orange or buff (yellow) colour pigment in grey or white cement in top layer of grit	sqm	64.73

	finish plaster.		
11.28	Extra for adding blue or green colour pigment in grey or white cement in top layer of grit finish plaster.	sqm	50.00
11.29	Extra for adding black colour pigment in grey or white cement in top layer of grit finish plaster.	sqm	93.75
11.30	Extra for 27mm thick washed stone grit plaster for:		-
11.30.1	Circular work not exceeding 6 m radius	sqm	26.79
11.30.2	Moulding cornices and cover.		-
11.30.3	Straight cornices in their length	sqm	61.61
11.30.4	Curved cornices in their length	sqm	81.70
11.31	Providing and making 12mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:		-
11.31.1	Flush bands	metre	1.88
11.31.2	Sunk Bands	metre	2.32
11.31.3	Raised Band	metre	2.68
11.32	Providing and making 18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:		-
11.32.1	Flush bands	metre	2.23
11.32.2	Sunk Bands	metre	2.68
11.32.3	Raised Band	metre	2.95
11.32.4	Drip course	metre	3.21
11.33	Providing and making moulded mortar band in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:		-
11.33.1	12 mm thick	metre	3.75
11.33.2	18 mm thick	metre	5.00
11.34	Providing and making 18 mm thick moulded cement mortar band in two coats under layer of 12mm thick with cement mortar 1:5 (1 cement : 5 fine sand) and top layer 6mm thick with cement mortar 1:4 (1 cement : 4 fine sand) per cm width:	metre	5.98
11.35	Providing and making 18 mm thick artificial red stone plaster consisting of 12mm thick under coat plaster 1:4 (1 cement : 4 fine sand) and 6mm thick finishing coat of cement mortar 1:1:3 (1 cement :1 marble dust: 3 stone dust) mixed with red oxide to match the shade of red stone.	sqm	206.25
11.36	Extra for lining over plaster to imitate stone or concrete block walling.	sqm	20.98
11.37	Providing and making pointing on brick work with cement Mortar 1:3 (1 cement : 3 fine sand)		-
11.37.1	Flush pointing	sqm	24.11
11.37.2	Ruled pointing	sqm	29.91
11.37.3	Cut off weather struck pointing	sqm	37.50
11.37.4	Raised and cut pointing	sqm	53.13
11.38	Providing and making pointing on stone work with cement Mortar 1:3 (1 cement : 3 fine sand)		-
11.38.1	Flush pointing	sqm	45.09
11.38.2	Ruled pointing	sqm	50.89
11.38.3	Raised and cut pointing	sqm	94.64
11.39	Providing and making raised and cut pointing on stone work in white cement mortar 1:3 (1 White cement :3 Marble dust).	sqm	160.71
11.40	Making grove in cement plaster while plastering upto10 mm deep and 10 mm wide.	metre	1.16

11.41	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.	sqm	76.79
11.42	Providing sand faced plaster to concrete or brick masonry surface in all positions in two coats, base coat 13mm thick in C.M. 1:4, cleaning the surface by combing it and finishing coat 8mm thick in C.M. 1:3 and taking out grains on surface by hand operated mechanical arrangement with cost of all material labour, all leads & lifts, and scaffolding etc. complete.	sqm	160.71
12	FLOORING		-
12.1	Applying cement slurry on R.C.C. slab or cement concrete work using 2.75 kg/ sqm for receiving cement concrete floor including roughening cleaning etc complete.	sqm	30.36
12.2	25mm thick cement concrete flooring with 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) finished with floating coat of neat cement.	sqm	147.32
12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.		-
12.3.1	40 mm thick	sqm	198.21
12.3.2	50 mm thick	sqm	226.79
12.3.3	75 mm thick	sqm	308.04
12.4	52 mm thick cement concrete flooring with under layer of 40mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer of 12 mm thick cement metallic hardener concrete mix 1:2 (1 cement hardener mix : 2 stone aggregate of 6 mm size by volume) with metallic hardening compound of approved quality mixed with cement in ratio of 4:1 (4 cement : 1 metallic floor hardening compound by weight) including finishing etc. complete.	sqm	393.75
12.5	Extra for making chequers of approved pattern on cement concrete flooring, landing, pavement etc.	sqm	14.29
12.6	Cement plaster skirting upto 30 cm. height with cement mortar 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement including rounding of junction with floor.		-
12.6.1	18 mm thick in two layers of 12mm and 6mm	sqm	178.57
12.6.2	21 mm thick in two layers of 15mm and 6mm	sqm	194.64
12.7	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.		-
12.7.1	Size upto 200x300mm	sqm	524.11
12.7.2	Size above 200x300mm	sqm	576.79
12.8	Providing and fixing plain cement concrete fibre reinforced heavy duty designer glazed floor tiles with uniform colour (for coloured tiles) and texture conforming to IS: 1237 (for abrasion wear) and IS : 516 (for compressive strength) of approved make, colours, shades and size on cement Mortar bed and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.		-
12.8.1	On wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand)	sqm	822.32

12.8.2	On floor, steps and risers over 20mm thick bed of cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	808.04
12.9	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.		-
12.9.1	Size 300x300mm	sqm	617.86
12.9.2	Size above 300x300mm	sqm	650.00
12.10	Providing and laying rectified ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.		-
12.10.1	Size 300x300mm	sqm	766.07
12.10.2	Size above 300x300mm	sqm	808.04
12.11	Providing and laying porcelain floor tiles of size 600x600mm with water absorption's less than 0.5% and conforming to IS : 15622 of approved make , laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.	sqm	633.93
12.12	Providing and laying vitrified floor tiles with soluble salt printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS : 15622 of approved make, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.	sqm	859.82
12.13	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.		-
12.13.1	Size 600x600mm	sqm	1,027.68
12.13.2	Size 800x800mm	sqm	1,201.79
12.13.3	Size 1000x1000mm	sqm	1,394.64
12.14	Extra for providing and laying vitrified floor tiles with 2-5mm groove in between the tiles including grouting the groove with water resistant epoxy compound or with white cement and approved pigments etc. complete.		-
12.14.1	Size 600x600mm	sqm	48.21
12.14.2	Size 800x800mm	sqm	46.88
12.14.3	Size 1000x1000mm	sqm	45.98
12.15	Deduct for not using 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	214.29
12.16	Extra for fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 (Type 1) for interior applications, using 5kg. adhesive per sqm of tile area, in 3mm-6mm thickness in place of cement mortar.	sqm	170.54
12.17	Extra for fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 (Type 2) for interior/exterior applications, using 5kg adhesive per sqm of tile area, in 3mm-6mm thickness in place of cement mortar.	sqm	180.36

12.18	40mm thick marble chips flooring rubbed and polished to granolithic finish with under layer 34mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and top layer 6mm thick with white or black or white and black marble chips of size from 1mm to 4mm nominal size laid after mixing with cement marble powder in mix 3:1 (3 cement :1 marble powder by weight) in proportion of 4:7 (4 cement marble powder mix : 7 marble chips by volume)		-
12.18.1	Dark shade pigments with ordinary cement	sqm	361.61
12.18.2	Light shade pigment with white cement	sqm	400.89
12.18.3	Medium shade pigment with approx. 50% white cement, 50% ordinary cement	sqm	361.61
12.18.4	White cement without any pigment	sqm	357.14
12.18.5	Ordinary cement without any pigment	sqm	325.00
12.19	40mm thick marble chips flooring rubbed and polished to granolithic finish with under layer 31mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and top layer 9mm thick with white or black or white and black marble chips of size from 4mm to 7mm nominal size laid after mixing with cement marble powder in mix 3:1 (3 cement :1 marble powder by weight) in proportion of 4:7 (4 cement marble powder mix : 7 marble chips by volume)		-
12.19.1	Dark shade pigments with ordinary cement	sqm	400.89
12.19.2	Light shade pigment with white cement	sqm	435.71
12.19.3	Medium shade pigment with approx. 50% white cement, 50% ordinary cement	sqm	401.79
12.19.4	White cement without any pigment	sqm	400.00
12.19.5	Ordinary cement without any pigment	sqm	349.11
12.20	40mm thick marble chips flooring rubbed and polished to granolithic finish with under layer 28mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and top layer 12mm thick with white or black or white and black marble chips of size from 7mm to 10mm nominal size laid after mixing with cement marble powder in mix 3:1 (3 cement :1 marble powder by weight) in proportion of 4:7 (4 cement marble powder mix : 7 marble chips by volume)		-
12.20.1	Dark shade pigments with ordinary cement	sqm	438.39
12.20.2	Light shade pigment with white cement	sqm	486.61
12.20.3	Medium shade pigment with approx. 50% white cement, 50% ordinary cement	sqm	439.29
12.20.4	White cement without any pigment	sqm	437.50
12.20.5	Ordinary cement without any pigment	sqm	365.18
12.21	Marble chips skirting (upto 30 cm height) rubbed and polished to granolithic finish with layer 6mm thick with white or black or white and black marble chips of size from smallest of 4mm nominal size laid after mixing with cement marble powder in mix 3:1 (3 cement :1 marble powder by weight) in proportion of 4:7 (4 cement marble powder mix ; 7 marble chips by volume)		-
12.21.1	18mm thick with under layer of 12mm thick cement plaster 1:3 (1 cement : 3 fine sand)		-
12.21.2	Dark shade pigments with ordinary cement	sqm	359.82
12.21.3	Light shade pigment with white cement	sqm	383.93
12.21.4	Medium shade pigment with approx. 50% white cement, 50% ordinary cement	sqm	359.82
12.21.5	White cement without any pigment	sqm	358.93
12.21.6	Ordinary cement without any pigment	sqm	323.21

12.21.7	21mm thick with under layer of 15mm thick cement plaster 1:3 (1 cement : 3 fine sand)		-
12.21.8	Dark shade pigments with ordinary cement	sqm	368.75
12.21.9	Light shade pigment with white cement	sqm	393.75
12.21.10	Medium shade pigment with approx. 50% white cement, 50% ordinary cement	sqm	369.64
12.21.11	White cement without any pigment	sqm	368.75
12.21.12	Ordinary cement without any pigment	sqm	332.14
12.22	Crazy marble stone flooring including filling the gaps with white cement marble powder mixture (3 white cement : 1 marble powder) by weight mixed with approved light shade pigment further mixed with white or black or white and black marble chips of sizes from 1mm to 4mm nominal size) in volumetric proportion of 4:7 (4 cement marble powder mix : 7 marble chips) and under layer of 25mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) rubbing, polishing and cement slurry etc. complete.	sqm	412.50
12.23	Extra for providing and fixing metal strip in joints of Terrazo floor/ cement concrete floor or like.		-
12.23.1	Aluminium strips	kg	290.18
12.23.2	Brass strips	kg	358.93
12.24	Extra for providing and fixing 4mm thick AC sheet strip in joints of cement concrete floor or like.	sqm	239.29
12.25	Extra for providing and fixing 4mm thick glass strip in joints of Terrazo floor/ cement concrete floor or like.		-
12.25.1	30 mm wide	metre	12.95
12.25.2	40 mm wide	metre	16.07
12.25.3	60 mm wide	metre	22.32
12.26	Extra for using chocolate grey or yellow marble chips instead of white & black chips in marble chips flooring or skirting.		-
12.26.1	In top 6mm thick layer	sqm	6.79
12.26.2	In top 9 mm thick layer	sqm	10.71
12.26.3	In top 12 mm thick layer	sqm	13.39
12.27	Extra for Terrazzo flooring laid as floor borders marginal and similar bands exceeding 7.5 cm but not exceeding 30 cm in width	sqm	12.05
12.28	Extra for laying terrazzo in narrow band not exceeding 7.5 cm. in width	metre	4.02
12.29	Extra for laying terrazzo flooring in staircase treads not exceeding 30cm in width including cost of forming nosing etc.	sqm	17.86
12.30	Extra for making moulded nosing in Terrazzo including returned moulded ends and angles to mouldings.	metre	36.16
12.31	Special surface finishing to treads and risers and the ends of concrete steps and the like including form work.	sqm	25.45
12.32	Precast Terrazzo tiles 22mm thick with graded white or black or white and black marble chips of size upto 6mm laid in floors, tread of steps and landing on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and polishing complete with precast tiles of:		-
12.32.1	Light shade using white cement	sqm	623.21
12.32.2	Medium shade using approximately. 50% white cement and 50% ordinary cement.	sqm	600.89
12.32.3	Dark shade using ordinary cement	sqm	561.61
12.33	Extra if Terrazo tiles are laid in treads or steps not exceeding 30 cm. in width	sqm	15.18

12.34	Precast Terrazzo tiles 22mm thick with marble chips of size upto 6mm in skirting and risers of steps and exceeding 30cm in height on 12mm thick cement plaster 1:3 (1 cement : 3 coarse sand) jointed with neat cement slurry including rubbing and polishing complete with tiles of.		-
12.34.1	Light shade using white cement	sqm	632.14
12.34.2	Medium shade using approximately. 50% white cement and 50% ordinary cement.	sqm	608.93
12.34.3	Dark shade using ordinary cement	sqm	586.61
12.35	Extra if cut tiles other than half tiles are used in risers of steps skirting and dado.	sqm	24.11
12.36	Chequered terrazzo tiles 22 mm thick with graded marble chips of size upto 6mm in floors on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including grinding rubbing and polishing complete.		-
12.36.1	Light shade using white cement	sqm	713.39
12.36.2	Medium shade using approximately. 50% white cement and 50% ordinary cement.	sqm	636.61
12.36.3	Dark shade using ordinary cement	sqm	597.32
12.37	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :		-
12.37.1	Light shade using white cement	sqm	571.43
12.37.2	Medium shade using approximately. 50% white cement and 50% ordinary cement.	sqm	527.68
12.37.3	Dark shade using ordinary cement	sqm	462.50
12.37.4	Ordinary cement without any pigment	sqm	458.93
12.38	15mm thick Marble stone slab flooring over 18mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including grinding rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)		-
12.38.1	Makrana white second quality.	sqm	3,350.00
12.38.2	Raj Nagar plain.	sqm	1,542.86
12.38.3	Agaria White	sqm	2,180.36
12.38.4	Black Zebra.	sqm	1,336.61
12.38.5	Udaipur green marble	sqm	1,336.61
12.38.6	Pink plain marble.	sqm	1,574.11
12.38.7	Wonder marble.	sqm	2,436.61
12.38.8	Katni marble.	sqm	1,570.54
12.39	15mm thick Marble stone slab in, tread & risers of steps, skirting, dado, walls and pillars on 12mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) and jointed with grey cement slurry including matching pigment, rubbing and polishing etc. complete. (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 M).		-
12.39.1	Makrana white second quality.	sqm	3,419.64
12.39.2	Raj Nagar plain.	sqm	1,612.50
12.39.3	Agaria White	sqm	2,250.00
12.39.4	Black Zebra.	sqm	1,407.14
12.39.5	Udaipur green marble	sqm	1,407.14
12.39.6	Pink plain marble.	sqm	1,643.75
12.39.7	Wonder marble.	sqm	2,506.25

12.39.8	Katni marble.	sqm	1,641.07
12.40	15mm thick Marble stone tile flooring over 18mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including grinding rubbing and polishing etc. complete. (Area of tile should be 0.18 sqm and above)		-
12.40.1	Makrana white second quality.	sqm	1,674.11
12.40.2	Raj Nagar plain.	sqm	861.61
12.40.3	Agaria White	sqm	1,133.04
12.40.4	Black Zebra.	sqm	922.32
12.40.5	Udaipur green marble	sqm	759.82
12.40.6	Pink plain marble.	sqm	868.75
12.41	15mm thick Marble tiles in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (Area of tiles to be upto 0.18 sqm)		-
12.41.1	Makrana white second quality.	sqm	1,743.75
12.41.2	Raj Nagar plain.	sqm	932.14
12.41.3	Agaria White	sqm	1,202.68
12.41.4	Black Zebra.	sqm	991.96
12.41.5	Udaipur green marble	sqm	829.46
12.41.6	Pink plain marble.	sqm	938.39
12.42	Extra for using white cement slurry instead of grey cement slurry in joints of marble stone flooring or tiles for all thickness	sqm	10.71
12.43	Extra for nosing in marble stone for treads.	metre	72.32
12.44	Extra for nosing in Granite stone for treads.	metre	112.50
12.45	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)		-
12.45.1	Granite stone grey/pink	sqm	1,603.57
12.45.2	Granite stone black	sqm	2,362.50
12.45.3	Granite stone lakha red/ shahi red	sqm	3,750.00
12.46	15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).		-
12.46.1	Granite stone grey/pink	sqm	1,668.75
12.46.2	Granite stone black	sqm	2,427.68
12.46.3	Granite stone lakha red/ shahi red	sqm	3,815.18
12.47	8 mm thick Table rubbed polished Granite stone tile flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete.		-
12.47.1	Granite stone grey/pink	sqm	845.54
12.47.2	Granite stone black	sqm	1,186.61
12.47.3	Granite stone lakha red/ shahi red	sqm	1,819.64

12.48	8 mm thick Table rubbed polished Granite stone tile in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete.		-
12.48.1	Granite stone grey/pink	sqm	909.82
12.48.2	Granite stone black	sqm	1,251.79
12.48.3	Granite stone lakha red/ shahi red	sqm	1,884.82
12.49	25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sqm and upto 0.50 sqm)	sqm	800.89
12.50	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/ dado up to length of 1.0 M.)	sqm	883.93
12.51	Extra for nosing in steps and treads of Kota stone slab.	metre	62.05
12.52	Extra for nosing in steps and treads of red or white rough dressed sand stone.	metre	31.70
12.53	Extra for nosing in steps and treads of red or white fine dressed sand stone.	metre	83.93
12.54	Extra for nosing in steps and treads of red or white fine dressed and rubbed sand stone.	metre	105.36
12.55	Extra for necessary grinding and polishing to get mirror finish on KOTA/ Marble Stone flooring/ steps/ treads instead of normal grinding and polishing.	sqm	234.82
12.56	25mm thick Local RAJIM/ Red Flag stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid over & jointed with grey cement slurry mixed with pigments to match the shade of the stone i/c grinding, rubbing and polishing.	sqm	460.71
12.57	25mm thick Local RAJIM/ Red Flag stone slab in riser of steps, skirting, dado and pillars laid on 12mm (Average) thick cement mortar 1:4 (1 cement : 4 coarse sand) and joint with grey cement slurry mixed with pigments to match the shade of the slab i/c grinding, rubbing and polishing.	sqm	531.25
12.58	25mm thick un-polished Local RAJIM/ Red Flag stone slab flooring laid over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid over & jointed with grey cement slurry mixed with pigments to match the shade of the stone.	sqm	382.14
12.59	Providing and fixing un-polished 45mm to 50mm thick RAJIM SAND STONE in floors laid on sand bed of average thickness 50mm and pointing with cement mortar 1:3 (1 cement : 3 coarse sand) including finishing complete.	sqm	250.00
12.60	Providing and fixing 20mm thick Jaisalmer stone flooring in any pattern over & including 20mm thick cement mortar bedding in CM 1:6 including cement float and filling joints with white neat cement slurry mixed with pigment to match the shade of stone with all wastage of all material including grinding, finishing, polishing and cleaning etc. complete (Edges and joints of stone are cut neatly so that thickness of joints to be not more than 1.50mm) and i/c cost of all materials, labour and running & hire charges of all machineries required for the work at all heights.	sqm	737.50

12.61	Providing and fixing 20mm thick Jaisalmer stone in skirting, coping, dado tread & risers of steps both sides machine cut over and including 12mm thick cement plaster in CM 1:4 with cost of pigment, cement labour for grinding with cost of all materials & labour etc. complete at all heights.	sqm	825.89
12.62	Extra for flooring of any type of stone/ tiles laid in approved design and pattern (Kite or other complicated).	sqm	76.79
12.63	Extra for laying of any type of stone in flooring in strips:		-
12.63.1	Upto 100 mm width	sqm	38.39
12.63.2	Above 100 mm and upto 150 mm	sqm	25.45
12.64	Providing and laying upto 10mm wide stone strips for pattern in flooring of approved colour and shade of:		-
12.64.1	Granite stone	metre	39.73
12.64.2	Jaisalmer stone	metre	19.20
12.65	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm		-
12.65.1	Plain/ normal coloured precast interlock concrete block	sqm	389.29
12.65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks	sqm	564.29
12.66	Providing and fixing precast compressed plain cement concrete edge restraint block of size 500mmx250mmx60mm of compressive strength of 200kg per sq.cm manufactured by electro hydraulically operated block machine by excavated trench of 150mm depth, laid width wise etc. complete	metre	150.89
12.67	Providing and laying brush concrete flooring of 12mm thick cement concrete (1 cement :2 black metal, 6mm size) mixed with granite pigment of approved quality in a ratio of 2.08 kg/sq metre are laid over & including a base of 40mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm size) with 12.50 mm size graded B.T metal mechanically mixed including neat cement finish over granite with red colour pigment including glass strip of size 45x3 mm, cost of all material & labor etc. complete.	sqm	414.29
12.68	25mm wooden planking tongued and grooved in flooring including fixing with iron screws complete with:		-
12.68.1	Teak wood	sqm	3,056.25
12.68.2	Other than teak wood such as sal, haldo and Bija	sqm	1,749.11
12.69	38 mm thick parquet (wood blocks) flooring of teak wood laid over 25mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm nominal size) to be paid separately coated with thin layer of hot bitumen (blown type) @ 2.45 kg/ sqm including fixing blocks after dipping in hot bitumen (blown type) upto half depth planned, leveled, smooth and finished complete.	sqm	5,565.18
12.70	Extra for plaining the lower surface of wooden planking	sqm	42.86
12.71	Providing and fixing 2mm thick homogeneous polyvinyl chloride sheet in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesive @ 0.25 kg per sqm of approved quality and manufacturer like Dunlop S-758, Fevicol SR 998 or equivalent including rolling with light wooden roller weighting about 5 kg. all complete in approved colour and shade.	sqm	451.79

12.72	Providing and fixing in position homogeneous P.V.C. quartz reinforced floor covering tiles conforming to I.S. 3462/1986 of size 300x300 mm over existing smooth and finished surface including removal of dust etc. from existing floor and laying approved adhesive (Dunlop S- 758, Fevicol SR 998 or equivalent) at the rate of 0.25 kg/ sqm including rolling with light wooden roller weighing about 5 kg etc. complete.		-
12.72.1	1.6mm thick tiles (weight 3 kg per sqm)	sqm	437.50
12.72.2	2.0 mm thick tiles (Weight 3.80 kg per sqm)	sqm	494.64
12.72.3	3 mm thick tiles (Weight 6 kg per sqm)	sqm	692.86
12.73	Dry brick on edge flooring in required pattern with bricks of class designation 3.5 on a bed of 12 mm mud mortar including filling joints with fine sand complete.	sqm	314.29
13	MARBLE & STONE WALL LINING WORK		-
13.1	15 mm thick Marble work (machine cut, table rubbed & polished) for wall lining (veneer work) in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) mixed with matching pigment. (Area of slab should be over 0.5 sqm)		-
13.1.1	Makrana white second quality.	sqm	3,420.54
13.1.2	Raj Nagar plain.	sqm	1,691.07
13.1.3	Agaria White	sqm	2,301.79
13.1.4	Black Zebra.	sqm	1,491.96
13.1.5	Udaipur green marble	sqm	1,491.96
13.1.6	Pink plain marble.	sqm	1,718.75
13.1.7	Wonder marble.	sqm	2,546.43
13.1.8	Katni marble.	sqm	1,718.75
13.2	8 mm thick Marble tile work (machine cut, table rubbed & polished) for wall lining (veneer work) in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) mixed with matching pigment.		-
13.2.1	Makrana white second quality	sqm	1,878.57
13.2.2	Raj Nagar plain	sqm	1,066.07
13.2.3	Agaria White	sqm	1,336.61
13.2.4	Black Zebra	sqm	1,120.54
13.2.5	Udaipur green marble	sqm	958.04
13.2.6	Pink plain marble	sqm	1,066.07
13.3	15 mm thick Marble work (machine cut, table rubbed & polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.		-
13.3.1	Makrana white second quality.	sqm	3,455.36
13.3.2	Raj Nagar plain.	sqm	1,805.36
13.3.3	Agaria White	sqm	2,387.50
13.3.4	Black Zebra.	sqm	1,614.29
13.3.5	Udaipur green marble	sqm	1,614.29
13.3.6	Pink plain marble.	sqm	1,831.25
13.3.7	Wonder marble.	sqm	2,621.43
13.3.8	Katni marble.	sqm	1,831.25

13.4	15mm thick Granite work (machine cut, table rubbed & mirror polished) for wall lining (veneer work) in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with cement mortar 1:2 (1 white cement: 2 marble dust) mixed with matching pigment. (Area of slab should be over 0.5 sqm).		-
13.4.1	Granite stone grey/pink	sqm	1,748.21
13.4.2	Granite stone black	sqm	2,474.11
13.4.3	Granite stone lakha red/ shahi red	sqm	3,801.79
13.5	8mm thick Granite tile work (machine cut, table rubbed & mirror polished) for wall lining (veneer work) in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 marble dust) mixed with matching pigment.		-
13.5.1	Granite stone grey/pink	sqm	1,185.71
13.5.2	Granite stone black	sqm	1,526.79
13.5.3	Granite stone lakha red/ shahi red	sqm	2,160.71
13.6	15mm thick Granite work (machine cut, table rubbed & mirror polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.		-
13.6.1	Granite stone grey/pink	sqm	2,201.79
13.6.2	Granite stone black	sqm	2,927.68
13.6.3	Granite stone lakha red/ shahi red	sqm	4,255.36
13.7	Stone work with DHOLPUR SAND STONE (machine cut edge) exposed face fine dressed with rough backing for wall lining etc. (Veneer work) upto 10 metre height, backing filled with a grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps which shall be paid separately)		-
13.7.1	40mm. thick	sqm	1,538.39
13.7.2	50mm. thick	sqm	1,687.50
13.7.3	60mm. thick	sqm	1,845.54
13.8	Stone work with DHOLPUR SAND STONE (machine cut edge) exposed face machine cut and table rubbed with rough backing for wall lining etc. (Veneer work) upto 10 metre height, backing filled with a grout of 20 mm thick cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps which shall be paid separately)		-
13.8.1	40mm. thick	sqm	1,833.93
13.8.2	50mm. thick	sqm	1,983.04
13.8.3	60mm. thick	sqm	2,155.36
13.9	Stone work with KOTA STONE Slab (machine cut edge) exposed face machine cut and table rubbed with rough backing for wall lining etc. (Veneer work) upto 10 metre height, backing filled with a grout of 20 mm thick cement mortar 1:3 (1 cement: 3 coarse sand), jointing with cement mortar 1:2 (1 cement: 2 stone dust) with admixture of pigment matching the stone shade including rubbing and polishing complete. (To be secured to the backing by means of cramps which shall be paid separately)		-
13.9.1	25mm thick	sqm	916.07
13.9.2	40mm thick	sqm	1,022.32

13.10	Stone tile work (mirror polished, machine cut edge) for wall lining upto 10 metre height, with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including pointing in white cement mortar 1:2 (1 cement : 2 marble dust) with an admixture of pigment matching the stone shade.		-
13.10.1	Granite Stone of any colour and shade - 8mm thick	sqm	1,188.39
13.10.2	White/green/black marble - 8mm thick	sqm	1,029.46
13.10.3	Mica/ White stone - 10-20mm thick	sqm	607.14
13.11	Wall lining butch work upto 10m height with DHOLPUR STONE rough facing on the exposed surface with strips of 40 mm thick, 300mm (minimum) length and required width over 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand), embedding every tenth layer and bottom most layer of 75mm thick strips in masonry or concrete after making necessary chases of size 75mmx75mm, ruled pointing in white cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment matching the stone shade.	sqm	1,533.04
13.12	Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut DHOLPUR SAND STONE (machine cut edges) of uniform colour and size upto 1mx1m size, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with weather sealant. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately.)	sqm	1,609.82
13.13	Extra for stone work (Veneer work) curved on plan with a mean radius not exceeding 6.0m.	sqm	51.34
13.14	Extra for stone work for wall lining on exterior wall beyond 10m height from ground level for every additional height of 3 metre or part thereof.	sqm	114.29
13.15	Providing and fixing clamps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stone in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases and/or holes in stone/wall.		-
13.15.1	Gun metal cramps size 25mm x 6mm x 300mm	kg	117.86
13.15.2	Stainless steel cramps with stainless steel nuts and bolts and washer (total weight not less than 260 gms).	kg	350.89
13.16	Providing and fixing structural steel frame (for dry cladding of sand stone) on walls at all heights using M.S. square/ rectangular tube in the approved pattern including cost of cutting, bending, welding etc. The frame work shall be supported in wall with the help of MS brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block of grade 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) of size 300x230x300mm and with approved expansion hold fasteners on CC/RCC surface including drilling necessary holes, approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of "ZINC" primer and painted with two or more coats of epoxy paint. (Stainless steel cramps shall be paid separately)	kg	105.36
13.17	Providing and fixing 15mm thick Granite (machine cut, table rubbed & mirror polished on both sides) for partition curtain in toilets or similar locations of required size in wall with cement mortar 1:4 (1 cement : 4 coarse sand) including cutting chase in wall and joint with wall treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.		-
13.17.1	Granite stone grey/pink	sqm	1,884.82
13.17.2	Granite stone black	sqm	2,610.71

13.17.3	Granite stone lakha red/ shahi red	sqm	3,937.50
13.18	Providing and fixing copper pins 7.5 cm. long 6mm dia. for securing adjacent stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making necessary chases.	each	24.11
13.19	Extra for providing edge moulding to 15mm thick stone counters, vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		-
13.19.1	Marble work	metre	91.96
13.19.2	Granite work	metre	153.57
13.20	Extra for fixing marble /granite stone in facia and drops of width upto 150 mm with epoxy resin based adhesive instead of cement mortar including cleaning etc. complete.	metre	229.46
13.21	Extra for making opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including making necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	each	225.89
13.22	Mirror polishing on marble work/ Kota stone/ Granite work where ever required to give high gloss finish complete.		-
13.22.1	On walls/ Floor	sqm	164.29
13.22.2	On kitchen platform, sills and similar	sqm	184.82
13.23	Providing and fixing (Table Rubbed & polished) 30mm thick jali throughout (without sunk or moulded in jali slab) in white cement mortar 1:2 (1 white cement : 2 marble dust) with and admixture of pigment to match the marble shade, jali pattern to be cut square to jali slab without any chamfers as per drawings & designs and patterns approved by the Engineer-in-charge.		-
13.23.1	Makrana white second quality.	sqm	8,288.39
13.23.2	Raj Nagar plain.	sqm	4,575.89
13.23.3	Agaria White	sqm	6,308.04
13.23.4	Black Zebra.	sqm	4,328.57
13.23.5	Udaipur green marble	sqm	4,328.57
13.23.6	Pink plain marble.	sqm	4,823.21
13.24	Providing and fixing one side polished 25 mm thick RAJIM SAND STONE shelves fixed in walls in cement mortar 1:3 (1 cement : 3 coarse sand) including finishing complete.		-
13.24.1	One side polished	sqm	295.54
13.24.2	Both side polished	sqm	369.64
14	DISTEMPERING, PAINTING AND FINISHING		-
14.1	Providing and applying plaster of paris putty over plastered wall surface including scaffolding complete		-
14.1.1	Upto 2 mm thickness to make surface even and smooth in line and level.	sqm	56.25
14.1.2	More than 2 mm thickness to make surface even and smooth in true plumb and line and level.	sqm	83.48
14.2	Providing and applying plaster of paris putty over plastered ceiling surface including scaffolding complete.		-
14.2.1	Upto 2 mm thickness to make surface even and smooth in line and level.	sqm	58.93
14.2.2	More than 2 mm thickness to make surface even and smooth in true plumb and line and level.	sqm	75.89
14.3	Providing and making plaster of paris moulding bend in approved pattern in ceiling / wall in line and level including scaffolding complete.		-
14.3.1	Upto 50 mm width and 10mm thick	metre	16.52
14.3.2	Above 50 mm and upto 100 mm width and 10mm thick	metre	22.77

14.4	Preparation of wall surface by applying a coat of putty comprising of chalk mitti, varnish and white lead in ratio 2½:1:1 (2½ kg chalk mitti : 1 litre varnish : 1 kg white lead) respectively, sand papering and making the surface smooth to proper shape and presentable conditions.	sqm	31.25
14.5	White washing with lime to give an even shade.		-
14.5.1	On new work (Three or more coats)	sqm	8.39
14.5.2	On old work (Two or more coats)	sqm	4.91
14.5.3	On old work (one coats)	sqm	2.86
14.6	White washing with whitening to give an even shade.		-
14.6.1	On new work (Three or more coats)	sqm	8.04
14.6.2	On old work (Two or more coats)	sqm	4.73
14.6.3	On old work (one coats)	sqm	2.68
14.7	Colour washing such as green, blue or buff with lime to give an even shade.		-
14.7.1	On new work (two or more coats) including a base coat of white washing	sqm	10.71
14.7.2	On old work (Two or more coats)	sqm	5.00
14.7.3	On old work (one coats)	sqm	2.86
14.8	Hiramchi colour wash to give and even shade.		-
14.8.1	On new work (Two or more coats)	sqm	4.46
14.8.2	On old work (one coats)	sqm	2.59
14.9	Distemping with acrylic washable distemper to give an even shade.		-
14.9.1	On new work (Two or more coats)	sqm	33.93
14.9.2	On old work (one or more coats)	sqm	15.63
14.10	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade.		-
14.10.1	On new work (two or more coats)	sqm	39.73
14.10.2	On old work (one or more coats)	sqm	25.45
14.11	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade.		-
14.11.1	On new work (two or more coats)	sqm	46.88
14.11.2	On old work (one or more coats)	sqm	29.91
14.12	Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.	sqm	20.54
14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.	sqm	84.38
14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.		-
14.14.1	On new work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	36.61
14.14.2	On old work (one or more coats applied @ 2.20 kg/10 sqm)	sqm	22.77
14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:		-
14.15.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	50.00
14.15.2	On old work (One or more coats applied @ 0.83 ltr/ 10 sqm)	sqm	33.04

14.16	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:		-
14.16.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	66.52
14.16.2	On old work (One or more coats applied @ 0.83 ltr/ 10 sqm)	sqm	42.41
14.17	Painting exterior surface with TEXTURED exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:		-
14.17.1	On new work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm	sqm	125.00
14.17.2	On old work (One or more coats applied @ 1.82 ltr/ 10 sqm)	sqm	70.09
14.18	Providing and applying synthetic/ acrylic plaster giving protective layer and decorative finish on any surface in approved design and shade as per manufacturer's specifications:		-
14.18.1	2.0mm thickness (average) having design scratched with special rollar.	sqm	366.07
14.18.2	1.5mm thickness (average) having spray coat finish with special rollar.	sqm	347.32
14.18.3	300 micron thickness (average) having superfine finish.	sqm	265.18
14.19	Finishing with epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including priming coat with epoxy primer, preparation of surface, etc. complete.	sqm	116.96
14.20	Applying priming coat on wood work with ready mixed primer.	sqm	20.98
14.21	Applying priming coat on steel work with red oxide zinc chromate primer.	sqm	15.63
14.22	Painting on new work (two or more coats) to give an even shade with:		-
14.22.1	Satin synthetic enamel paint	sqm	49.11
14.22.2	Premium synthetic enamel paint	sqm	41.96
14.22.3	Aluminium paint	sqm	52.23
14.22.4	Black anti-corrosive bitumastic paint	sqm	34.38
14.22.5	Black Japan paint	sqm	34.82
14.23	Painting on old work (one or more coats) to give an even shade with:		-
14.23.1	Satin synthetic enamel paint	sqm	31.25
14.23.2	Premium synthetic enamel paint	sqm	26.79
14.23.3	Aluminium paint	sqm	33.04
14.23.4	Black anti-corrosive bitumastic paint	sqm	22.32
14.23.5	Black Japan paint	sqm	22.77
14.24	Extra for painting with spray painting machine instead of paint brush:		-
14.24.1	On new work	sqm	4.46
14.24.2	On old work	sqm	1.96
14.25	Providing and laying French sprit polish on new wood work after preparing the surface by rubbing down smooth with sand papers, covering the knots, if visible, applying a coat of wood filler, cleaning the surface, applying 50 or more coats of French spirit polish till the surface gives high gloss.	sqm	127.68

14.26	Providing and laying French sprit polish on old wood work after preparing the surface by washing all dust, dirt and greasiness with detergent, rubbing down smooth with sand papers, covering the knots or undulations by applying a coat of wood filler if required, cleaning the surface, applying 5 or more coats of French spirit polish till the surface gives high gloss.	sqm	53.13
14.27	Providing and laying Melamine polish on new wood work (two or more coats) with spray machine after preparing surface by rubbing down smooth with sand papers, preparation of surface, applying 5 to 10 coats of French sprit polish, applying two coats of Melamine sealer and finally applying two coats of Melamine clear as per manufacturers specifications complete:	sqm	418.75
14.28	Providing and laying PU polish on new wood work (two or more coats) with spray machine after preparing surface by rubbing down smooth with sand papers, preparation of surface, applying 5 to 10 coats of French sprit polish, applying two coats of PU sealer and finally applying two coats of PU clear as per manufacturers specifications complete:	sqm	585.71
14.29	Applying priming coat with ready mixed primer on small articles not exceeding 0.10 sqm in area not in conjunction to similar primer painted work.	each	3.84
14.30	Painting small articles not exceeding 0.10 sqm of painted surface with superior quality enamel paint, not in conjunction to similar painted work.	each	4.55
14.31	Applying priming coat with ready mixed primer on surface upto 15 centimetre width or girth not in conjunction to similar painted work..	each	5.71
14.32	Painting small articles upto 15 cm in width or girth with superior quality enamel paint, not in conjunction to similar painted work.	each	6.79
14.33	Applying priming coat with ready mixed primer on picture or curtain rail.	metre	5.45
14.34	Painting (one or more coats) on picture or curtain rail with superior quality enamel paint to give an even shade.	metre	6.43
14.35	Floor painting with superior quality enamel paint to give an even shade.		-
14.35.1	On new work (two or more coats)	sqm	38.39
14.35.2	On old work (one or more coats)	sqm	22.77
14.36	Flooring polishing with superior quality wax polish of approved brand and manufacture.	sqm	23.66
14.37	Painting with black anticorrosive bitumastic paint on new work (two or more coats) on rain water, soil waste, vent pipes and fittings:		-
14.37.1	50 mm diameter pipes.	metre	7.23
14.37.2	75 mm diameter pipes.	metre	9.82
14.37.3	100 mm diameter pipes	metre	12.95
14.37.4	150 mm diameter pipes	metre	18.75
14.38	Painting with black anticorrosive bitumastic paint on old work (one or more coats) on rain water, soil waste, vent pipes and fittings:		-
14.38.1	50 mm diameter pipes.	metre	4.38
14.38.2	75 mm diameter pipes.	metre	6.16
14.38.3	100 mm diameter pipes	metre	7.95
14.38.4	150 mm diameter pipes	metre	12.05
14.39	Painting with aluminium paint on new work (two or more coats) on rain water, soil waste, vent pipes and fittings over and including a priming coat of red oxide zinc chromate primer:		-
14.39.1	50 mm diameter pipes.	metre	12.95

14.39.2	75 mm diameter pipes.	metre	18.30
14.39.3	100 mm diameter pipes	metre	23.21
14.39.4	150 mm diameter pipes	metre	34.82
14.40	Painting with aluminium paint on old work (one or more coats) on rain water, soil waste, vent pipes and fittings		-
14.40.1	50 mm diameter pipes.	metre	4.38
14.40.2	75 mm diameter pipes.	metre	8.21
14.40.3	100 mm diameter pipes	metre	7.95
14.40.4	150 mm diameter pipes	metre	16.07
14.41	Lettering with black Japan paint, per cm height.	per letter	0.63
14.42	Re-Lettering with black Japan paint, per cm height.	per letter	0.45
14.43	Coal tarring two coats on new work using 0.16 and 0.12 litre coal tar per sqm in the first and second coat respectively.	sqm	18.30
14.44	Removing white or colour wash by scrapping, sand papering and preparing the surface smooth including necessary repair to scratches etc. complete.	sqm	3.84
14.45	Removing dry or oil bound distemper by scraping sand papering and preparing the surfaces smooth including necessary repair to scratches etc. complete.	sqm	4.64
14.46	Removing old paint or polish by paint remover or blow lamp or any other means as approved including preparing the surface smooth after removing the paint.	sqm	29.02
14.47	Coal tarring one coat on old work using 0.12 litre coaltar per sqm	sqm	27.23
15	PILE WORK		-
15.1	Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of specified diameter and length below the pile cap in cement concrete M-35 grade, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap):		-
15.1.1	400 mm dia piles	metre	924.11
15.1.2	450 mm dia piles	metre	1,133.93
15.1.3	500 mm dia piles	metre	1,344.64
15.1.4	550 mm dia piles	metre	1,344.64
15.1.5	750 mm dia piles.	metre	2,047.32
15.2	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap in cement concrete M-35 grade, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap):		-
15.2.1	300 mm dia piles	metre	854.46
15.2.2	400 mm dia piles	metre	865.18
15.2.3	450 mm dia piles	metre	1,131.25
15.2.4	500 mm dia. piles	metre	1,300.00
15.2.5	600 mm dia piles	metre	1,575.89
15.2.6	750 mm dia piles.	metre	2,091.07

15.3	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in cement concrete M-35 grade, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap):		-
15.3.1	300 mm dia piles.	metre	1,343.75
15.3.2	400 mm dia piles	metre	1,373.21
15.3.3	450 mm dia piles	metre	1,386.61
15.3.4	550 mm dia piles	metre	1,389.29
15.4	Extra for providing additional bulb in under reamed piles, under specified dia meter (Only the quantity of extra bulbs are to be paid).		-
15.4.1	300mm dia piles.	each	976.79
15.4.2	400mm dia piles.	each	986.61
15.4.3	450 mm dia piles.	each	992.86
15.4.4	550 mm dia piles.	each	1,042.86
15.5	Boring, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in cement concrete 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size), to carry a safe working load, excluding the cost of steel reinforcement but including the cost of boring with auger by manual means and making one bulb using suitable bulb enlarging tool by MANUAL MEANS with all instruments and arrangements required for boring true to vertical line etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap):		-
15.5.1	250 mm dia piles.	metre	483.04
15.5.2	300 mm dia piles	metre	692.86
15.6	Extra for providing additional bulb in under reamed piles, under specified dia using necessary bulb enlarging tool and by MANUAL MEANS (Only the quantity of extra bulbs are to be paid):		-
15.6.1	250 mm dia piles.	each	288.39
15.6.2	300 mm dia piles.	each	325.89
15.7	Providing, driving and installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the pile cap in M 35 cement concrete to carry safe working load not less than specified. With a central through preformed hole with M.S. black pipe of dia, 40mm for grouting with cement sand grouting of mix 1:2 (1 cement : 2 coarse sand) under sufficient positive pressure to ensure complete filling including centering, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement. (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap).		-
15.7.1	400 mm dia piles.	metre	1,107.14
15.7.2	450 mm dia piles.	metre	1,204.46
15.7.3	500 mm dia piles.	metre	1,129.46
15.7.4	550 mm dia piles.	metre	1,142.86
15.7.5	750 mm dia piles.	metre	1,240.18
15.8	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge.		-
15.8.1	Single pile upto 50 tonne capacity		-

15.8.2	Initial test.	per test	34,237.50
15.8.3	Routine test	per test	15,468.75
15.8.4	Single pile above 50 tonne and upto 100 tonne capacity		-
15.8.5	Initial test	per test	41,559.82
15.8.6	Routine test.	per test	23,718.75
15.8.7	Group of two or more piles upto 50 tonne capacity		-
15.8.8	Initial test	per test	50,016.07
15.8.9	Routine test	per test	30,422.32
15.9	Cyclic vertical load testing of pile in accordance with IS Code of practice IS : 2911 (part IV) including preparation of pile head etc for.		-
15.9.1	Single pile.		-
15.9.2	Upto 50 tonne capacity pile.	per test	15,468.75
15.9.3	Above 50 tonne and upto 100 tonne capacity pile.	per test	23,718.75
15.9.4	Group of two piles.		-
15.9.5	Upto 50 tonne capacity each .	per test.	30,422.32
15.10	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile :		-
15.10.1	Upto 50 tonne capacity pile.	per test	15,468.75
15.10.2	Above 50 tonne and upto 100 tonne capacity pile.	per test	24,234.82
23	FIRE FIGHTING		-
	Dry Power Extinguisher Stored Pressure Type	No.	6,250.00
24	Fencing work as per drawing & specification mentioned in tender doc.	Mtr.	2080

CREDA SOR for SCIP

B Water Distribution Network

B.1 UPVC Pipes

SN	Particulars	Unit	Rate For Supply	Rate For laying/ commissionin g	Total Rate
	Trenching work with proper back filling for Distribution of pipe lines :	Mtr	-	100.00	100.00
	Supply & Laying of UPVC Pipe of 06 kg/cm ² pressure for following size:		-	-	-
	UPVC Pipe Line of 75 MM	Mtr	127.98	3.00	130.98
	UPVC Pipe Line of 90 MM	Mtr	182.87	4.00	186.87
	UPVC Pipe Line of 110 MM	Mtr	267.97	5.00	272.97
	UPVC Pipe Line of 140 MM	Mtr	442.32	9.00	451.32
	UPVC Pipe Line of 160 MM	Mtr	572.68	11.00	583.68
	UPVC Pipe Line of 180 MM	Mtr	727.41	15.00	742.41
	UPVC Pipe Line of 200 MM	Mtr	921.37	18.00	939.37
	UPVC Pipe Line of 225 MM	Mtr	1,167.64	23.00	1,190.64
	UPVC Pipe Line of 250 MM	Mtr	1,451.65	29.00	1,480.65
	UPVC Pipe Line of 280 MM	Mtr	1,647.98	33.00	1,680.98
	Supply & Fixing of Position gate valve/ Drain valve for UPVC pipe line including all accessories & materials of following size of dia :		-	-	-
	110 mm	No.	2,012.67	40.00	2,052.67
	140 mm	No.	2,667.60	53.00	2,720.60
	160 mm	No.	3,320.82	66.00	3,386.82
	180 mm	No.	3,986.87	80.00	4,066.87
	200 mm	No.	4,987.22	100.00	5,087.22
	250 mm	No.	6,673.35	133.00	6,806.35
	Supply & Fixing of Position Ball valve for UPVC pipe line including all accessories & materials of following size of dia :		-	-	-
	75 mm	No.	308.75	6.00	314.75
	Supply & Fixing of Non Return Valve for UPVC pipe line including all accessories & materials of following size of dia :		-	-	-

140 mm	No.	7,823.25	156.00	7,979.25
150 mm	No.	11,542.50	231.00	11,773.50
160 mm	No.	11,542.50	231.00	11,773.50
180 mm	No.	19,280.25	386.00	19,666.25
200 mm	No.	19,280.25	386.00	19,666.25
250 mm	No.	30,096.00	602.00	30,698.00
280 mm	No.	35,200.00	704.00	35,904.00

Supply & Fixing of Air release Valve with UPVC service saddle & 1 mm long 25 mm dia GI Pipe including all material & accessories for following size of dia :

110 x 25 mm (If required)	No.	1,314.14	26.00	1,340.14
140 X 25 mm (If required)	No.	1,356.03	27.00	1,383.03
160 X 25 mm (If required)	No.	1,418.45	28.00	1,446.45
180 X 25 mm	No.	1,541.57	31.00	1,572.57
200 X 25 mm	No.	1,644.17	33.00	1,677.17
225 X 25 mm	No.	1,973.34	39.00	2,012.34
Civil work-thurst blocks, valve chambers	Per Hect.	1,900.00	-	1,900.00

B.

1 HDPE Pipes

- 1 High Density polyethylene pipes for Water Supply shall be as per IS : 4984
Rubber sealing rings for gas mains, water mains and sewers shall be as per IS :
- 2 5382.
Laying & jointing of polyethylene (PE) Pipes shall be
- 3 as per IS : 7634
- 4 Colour
4.1 The colour of the pipe shall be black for the purpose of identification of the pipes covered in this standard. Each pipe shall contain minimum three equi-spaced longitudinal stripes of width 3 mm (Min) in blue colour. These stripes shall be more than 0.2 mm in depth. The material of the stripes shall be of the same type of resin, as used in the base compound for the pipe.
- 5 Length of straight Pipe & marking on pipe
5.1 The length of straight pipe used shall be more than 6 m or as agreed by Engineer in charge. Short lengths of 3 meter (minimum) up to a Maximum of 10 % of the total supply may be permitted.
5.2 Each straight length of pipe shall be clearly marked in indelible ink/paint on either end and for coil at both ends or hot embossed on white base every meter throughout the length of pipe/coil with the following information:
 - 5.2.1 Manufacturer's name/Trade-mark,
 - 5.2.2 Designation of pipe
 - 5.2.3 Lot No./Batch No.
 - 5.2.4 BIS certification marking on each pipe.
- 6 Appearance
Pipe shall be free from all defect including indentation, delaminating, bubbles, pinholes, cracks, pits, blisters, foreign inclusion that due to their nature degree or extent free of scouring, inside diameter from that obtained on adjacent unaffected portions of the surface. The pipe cavities, bulges, dents, ridges and other defects that result in a variation of detrimentally affect the strength and Serviceability of the pipe. The pipe shall be as uniform as commercially practicable in colour opacity, density and other physical properties as per relevant IS code or equivalent International Code. The inside surface of each pipe shall be ends shall be cut clearly and square to the axis of the pipe within the tolerance as per IS:4984
Handling, Transportation storage and Lowering of
- 7 pipes.
 - If transportation of HDPE pipes from a distance greater than 300km than pipes shall be received only when bare coils of pipe have been wrapped with Hessian cloth.
 - The truck for transportation of the PE pipes shall be exclusively used for PE pipes only with no other material loaded-especially no metallic, glass and wooden items. The truck shall not have sharp edges that can damage the pipe.
 - At the time of opening coils it must be remembered that the coils are under tension and must be open in control manner.
 - Straight length should be stored on horizontal racks giving continuous support.
 - Loss/damages during transit, handling, storage will be to the contractor's

account.

8 Fittings and specials :

All HDPE fittings/specials shall be fabricated or injection moulded at factory as per IS: 8360 (Part-I & Part-III) and as per IS: 8008 (Part-I to Part-IX). Fittings will be butt welded on the pipes or other fittings by use of heat fusion.

9 Test to Establish Perfectibility/portability of work Specimen of pipe shall be tested to establish the suitability for use in carrying potable water

(i) Smell of the extract

(ii) Clarity of the colour of the extract

(iii) Acidity and Alkalinity

(iv) Global migration UV absorbing material

Heavy metals

(v) Unreacted monomers (styrenes) and biological tests

1

0 Hydraulic Test

After laying the pipe hydraulic test shall be done to Conform the quality of work and material. There should not be any signs of localized swelling, leakage or weeping.

1 Laying of pipes and fittings/specials includes all precautions to guard against

1 possible damage to the existing structure/pipe lines, cables etc., taking precautions to prevent dirt from entering the pipe ends, lowering and laying pipes and specials in the trenches with specials arrangement such as cranes, tripods with chain pulley block, use of slings of canvas etc. to fit the ends of pipes and fittings/ specials to lift and lower the same. Inspection of pipes and fittings for defects by striking with a light hammer while suspended. Laying of pipes perfectly true in alignment and to gradient etc.

12 Measurement

The net length of fixed pipe shall be measured in running meters correct to 10mm. The portion of the pipe inside the joints shall not be included in the length of pipe work. Specials shall be excluded and measured and paid separately under the relevant item.

13 Rates :

The rate shall include the cost of the material and labour involve in all operations described in the item.

S.N

S.N	Particulars of Items	Unit	Rate without GST (in Rs.)		
			6 Kg/sq.cm	8 Kg/sq.cm	10 Kg/sq.cm
10.1	Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) Conforming to IS 4984/ 14151/12786//13488 with necessary jointing material like mechanical connector or jointing pipes by heating to the ends of pipes with the help of Teflon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks/ But fusion machine. (50mm & above fusion jointed & below 50mm mechanical jointed) PE-100				
1	20 mm dia	RM	28.00	29.00	30.00
2	25 mm dia	RM	33.00	35.00	38.00
3	32 mm dia	RM	42.00	42.00	47.00
4	40 mm dia	RM	53.00	59.00	69.00
5	50 mm dia	RM	69.00	85.00	100.00
6	63 mm dia	RM	106.00	132.00	157.00
7	75 mm dia	RM	151.00	186.00	222.00
8	90 mm dia	RM	208.00	260.00	312.00
9	110 mm dia	RM	297.00	383.00	458.00
10	125 mm dia	RM	387.00	492.00	588.00
11	140 mm dia	RM	481.00	611.00	731.00
12	160 mm dia	RM	627.00	798.00	957.00
13	180 mm dia	RM	785.00	1002.00	1219.00
14	200 mm dia	RM	970.00	1241.00	1497.00
15	225 mm dia	RM	1227.00	1566.00	1885.00
16	250 mm dia	RM	1504.00	1927.00	2319.00
17	280 mm dia	RM	1879.00	2409.00	2897.00
18	315 mm dia	RM	2371.00	3038.00	3663.00
19	355 mm dia	RM	3025.00	3873.00	4693.00
20	400 mm dia	RM	3904.00	5012.00	6073.00
21	450 mm dia	RM	4944.00	6353.00	7665.00
22	500 mm dia	RM	6110.00	7835.00	9469.00
23	560 mm dia	RM	7644.00	9831.00	11857.00
24	630 mm dia	RM	9660.00	12420.00	15003.00
25	710 mm dia	RM	11680.00	15013.00	18153.00

Providing and laying Bend 90' Conforming to IS specifications.

S.N

S.N	Particulars of Items	Unit	Rate without GST (in Rs.)		
			6 Kg/sq.cm	8 Kg/sq.cm	10 Kg/sq.cm
1	20 mm dia	Each	22.00	24.00	25.00

2	25 mm dia	Each	25.00	27.00	28.00
3	32 mm dia	Each	32.00	33.00	35.00
4	40 mm dia	Each	36.00	38.00	39.00
5	50 mm dia	Each	47.00	51.00	56.00
6	63 mm dia	Each	64.00	69.00	92.00
7	75 mm dia	Each	99.00	103.00	117.00
8	90 mm dia	Each	153.00	164.00	188.00
9	110 mm dia	Each	203.00	238.00	254.00
10	125 mm dia	Each	292.00	279.00	427.00
11	140 mm dia	Each	397.00	495.00	585.00
12	160 mm dia	Each	569.00	715.00	850.00
13	180 mm dia	Each	786.00	993.00	1191.00
14	200 mm dia	Each	1053.00	1338.00	1608.00
15	225 mm dia	Each	1481.00	1883.00	2261.00
16	250 mm dia	Each	1999.00	2557.00	3074.00
17	280 mm dia	Each	2785.00	3567.00	4287.00
18	315 mm dia	Each	3942.00	5050.00	6087.00
19	355 mm dia	Each	5594.00	7167.00	8687.00
20	400 mm dia	Each	8128.00	10441.00	12656.00
21	450 mm dia	Each	11528.00	14838.00	17919.00
22	500 mm dia	Each	15823.00	20327.00	24592.00
23	560 mm dia	Each	22120.00	28511.00	34433.00
24	630 mm dia	Each	31462.00	40542.00	49038.00
25	710 mm dia	Each	44847.00	57811.00	70100.00

Providing and laying Bend 45' Conforming to IS specifications.

S.N

o	Particulars of Items	Unit	Rate without GST (in Rs.)		
			6 Kg/sq.cm	8 Kg/sq.cm	10 Kg/sq.cm
1	20 mm dia	Each	22.00	24.00	25.00
2	25 mm dia	Each	24.00	25.00	27.00
3	32 mm dia	Each	25.00	27.00	31.00
4	40 mm dia	Each	30.00	32.00	40.00
5	50 mm dia	Each	42.00	42.00	55.00
6	63 mm dia	Each	74.00	74.00	97.00
7	75 mm dia	Each	113.00	113.00	149.00
8	90 mm dia	Each	163.00	163.00	219.00
9	110 mm dia	Each	240.00	240.00	349.00
10	125 mm dia	Each	258.00	335.00	514.00
11	140 mm dia	Each	348.00	488.00	735.00
12	160 mm dia	Each	497.00	704.00	1054.00
13	180 mm dia	Each	684.00	953.00	1446.00
14	200 mm dia	Each	914.00	1257.00	1916.00
15	225 mm dia	Each	1279.00	1772.00	2718.00
16	250 mm dia	Each	1729.00	2393.00	3661.00
17	280 mm dia	Each	2405.00	3281.00	4950.00
18	315 mm dia	Each	3396.00	5035.00	7579.00
19	355 mm dia	Each	4580.00	7244.00	10936.00
20	400 mm dia	Each	5927.00	9881.00	15772.00
21	450 mm dia	Each	7564.00	12960.00	20259.00
22	500 mm dia	Each	9325.00	18130.00	28486.00

23	560 mm dia	Each	11672.00	25136.00	28691.00
24	630 mm dia	Each	14740.00	32233.00	29102.00
25	710 mm dia	Each	15095.00	36345.00	29460.00

Providing and laying Equal Tee Conforming to IS specifications.

S.N

o	Particulars of Items	Unit	Rate without GST (in Rs.)		
			6 Kg/sq.cm	8 Kg/sq.cm	10 Kg/sq.cm
1	20 mm dia	Each	24.00	25.00	26.00
2	25 mm dia	Each	31.00	33.00	34.00
3	32 mm dia	Each	32.00	35.00	36.00
4	40 mm dia	Each	36.00	39.00	39.00
5	50 mm dia	Each	48.00	53.00	63.00
6	63 mm dia	Each	79.00	87.00	97.00
7	75 mm dia	Each	131.00	136.00	167.00
8	90 mm dia	Each	232.00	236.00	286.00
9	110 mm dia	Each	339.00	350.00	409.00
10	125 mm dia	Each	375.00	468.00	553.00
11	140 mm dia	Each	511.00	641.00	759.00
12	160 mm dia	Each	738.00	932.00	1111.00
13	180 mm dia	Each	1026.00	1302.00	1563.00
14	200 mm dia	Each	1382.00	1760.00	2119.00
15	225 mm dia	Each	1953.00	2489.00	2990.00
16	250 mm dia	Each	2639.00	3378.00	4062.00
17	280 mm dia	Each	3685.00	4722.00	5675.00
18	315 mm dia	Each	5228.00	6699.00	8073.00
19	355 mm dia	Each	7433.00	9521.00	11535.00
20	400 mm dia	Each	10792.00	13858.00	16786.00
21	450 mm dia	Each	14647.00	18840.00	22732.00
22	500 mm dia	Each	21028.00	26997.00	32634.00
23	560 mm dia	Each	29426.00	37900.00	45731.00
24	630 mm dia	Each	41856.00	53890.00	65122.00
25	710 mm dia	Each	59708.00	76899.00	93151.00

Providing and laying Pipe end Conforming to IS specifications.

S.N

o

S.N	Particulars of Items	Unit	Rate without GST (in Rs.)		
			6 Kg/sq.c m	8 Kg/sq.cm	10 Kg/sq.cm
1	20 mm dia	Each	33.00	35.00	36.00
2	25 mm dia	Each	35.00	36.00	39.00
3	32 mm dia	Each	36.00	39.00	41.00
4	40 mm dia	Each	39.00	43.00	44.00
5	50 mm dia	Each	46.00	47.00	49.00
6	63 mm dia	Each	57.00	58.00	60.00
7	75 mm dia	Each	73.00	80.00	80.00
8	90 mm dia	Each	106.00	120.00	120.00
9	110 mm dia	Each	136.00	158.00	158.00
10	125 mm dia	Each	209.00	238.00	238.00
11	140 mm dia	Each	264.00	301.00	301.00
12	160 mm dia	Each	269.00	316.00	316.00
13	180 mm dia	Each	415.00	475.00	475.00
14	200 mm dia	Each	411.00	489.00	485.00
15	225 mm dia	Each	428.00	521.00	521.00
16	250 mm dia	Each	699.00	714.00	814.00
17	280 mm dia	Each	648.00	792.00	792.00
18	315 mm dia	Each	973.00	1201.00	1201.00
19	355 mm dia	Each	1341.00	1630.00	1630.00
20	400 mm dia	Each	1668.00	2036.00	2036.00
21	450 mm dia	Each	1972.00	2437.00	2437.00
22	500 mm dia	Each	2486.00	3060.00	3060.00
23	560 mm dia	Each	3535.00	4255.00	4255.00
24	630 mm dia	Each	3031.00	3942.00	3942.00
25	710 mm dia	Each	4654.00	6045.00	6045.00

		Unit	STEP I	STEP II	STEP III
1	20 mm dia	Each	-	-	-
2	25 mm dia	Each	36.00	-	-
3	32 mm dia	Each	42.00	42.00	-
4	40 mm dia	Each	47.00	47.00	52.00
5	50 mm dia	Each	58.00	59.00	61.00
6	63 mm dia	Each	70.00	71.00	72.00
7	75 mm dia	Each	89.00	91.00	96.00
8	90 mm dia	Each	97.00	102.00	107.00
9	110 mm dia	Each	96.00	119.00	116.00
10	125 mm dia	Each	103.00	137.00	131.00
11	140 mm dia	Each	122.00	152.00	155.00
12	160 mm dia	Each	158.00	198.00	190.00
13	180 mm dia	Each	186.00	253.00	235.00
14	200 mm dia	Each	215.00	294.00	286.00
15	225 mm dia	Each	279.00	379.00	361.00
16	250 mm dia	Each	326.00	367.00	439.00
17	280 mm dia	Each	431.00	459.00	462.00
18	315 mm dia	Each	570.00	556.00	602.00

19	355 mm dia	Each	811.00	778.00	949.00
20	400 mm dia	Each	856.00	971.00	1105.00
21	450 mm dia	Each	1130.00	1275.00	3915.00
22	500 mm dia	Each	1377.00	1614.00	4663.00
23	560 mm dia	Each	1975.00	2078.00	9150.00
24	630 mm dia	Each	2342.00	2443.00	9775.00
25	710 mm dia	Each	3058.00	3151.00	19875.00

		Unit	STEP I	STEP II	STEP III
1	20 mm dia	Each	-	-	-
2	25 mm dia	Each	37.00	-	-
3	32 mm dia	Each	42.00	42.00	-
4	40 mm dia	Each	48.00	48.00	53.00
5	50 mm dia	Each	58.00	60.00	63.00
6	63 mm dia	Each	80.00	82.00	85.00
7	75 mm dia	Each	95.00	99.00	103.00
8	90 mm dia	Each	104.00	110.00	116.00
9	110 mm dia	Each	95.00	112.00	131.00
10	125 mm dia	Each	114.00	147.00	147.00
11	140 mm dia	Each	143.00	181.00	187.00
12	160 mm dia	Each	178.00	235.00	241.00
13	180 mm dia	Each	209.00	286.00	273.00
14	200 mm dia	Each	258.00	354.00	340.00
15	225 mm dia	Each	317.00	390.00	421.00
16	250 mm dia	Each	413.00	437.00	471.00
17	280 mm dia	Each	527.00	577.00	582.00
18	315 mm dia	Each	732.00	757.00	826.00
19	355 mm dia	Each	869.00	918.00	1079.00
20	400 mm dia	Each	1092.00	1236.00	1323.00
21	450 mm dia	Each	1369.00	1523.00	1509.00
22	500 mm dia	Each	1787.00	1963.00	1982.00
23	560 mm dia	Each	2287.00	2364.00	2221.00
24	630 mm dia	Each	2547.00	2627.00	2551.00
25	710 mm dia	Each	2583.00	2802.00	2742.00

Providing and laying Reducer 10 kg/sq.cm : Conforming to IS specifications.

		Unit	STEP I	STEP II	STEP III
1	20 mm dia	Each	-	-	-
2	25 mm dia	Each	42.00	-	-
3	32 mm dia	Each	47.00	47.00	-
4	40 mm dia	Each	53.00	53.00	58.00
5	50 mm dia	Each	62.00	64.00	66.00
6	63 mm dia	Each	75.00	78.00	83.00
7	75 mm dia	Each	94.00	99.00	104.00
8	90 mm dia	Each	105.00	114.00	116.00
9	110 mm dia	Each	110.00	131.00	121.00
10	125 mm dia	Each	124.00	148.00	142.00
11	140 mm dia	Each	131.00	164.00	168.00
12	160 mm dia	Each	170.00	215.00	206.00
13	180 mm dia	Each	201.00	275.00	256.00

14	200 mm dia	Each	234.00	322.00	314.00
15	225 mm dia	Each	305.00	418.00	397.00
16	250 mm dia	Each	358.00	404.00	485.00
17	280 mm dia	Each	505.00	514.00	517.00
18	315 mm dia	Each	631.00	696.00	709.00
19	355 mm dia	Each	900.00	864.00	1056.00
20	400 mm dia	Each	948.00	1078.00	1229.00
21	450 mm dia	Each	1341.00	1516.00	1554.00
22	500 mm dia	Each	1636.00	1795.00	1858.00
23	560 mm dia	Each	2202.00	2317.00	2350.00
24	630 mm dia	Each	2612.00	2662.00	2772.00
25	710 mm dia	Each	2762.00	2823.00	2898.00

Providing butt fusion welded joint/jointing by heating to the ends with the help of Teflon coated electric mirror/heater ends together etc. by thermosetting process to HDPE Pipe and below 50mm mechanical jointed)10kg) (50mm & above fusion jointed &8kg, specials. (6kg,

		Unit	Rate without GST (In Rs.)	
1	20 mm dia	Each	50.00	
2	25 mm dia	Each	50.00	
3	32 mm dia	Each	55.00	
4	40 mm dia	Each	68.00	
5	50 mm dia	Each	62.00	
6	63 mm dia	Each	81.00	
7	75 mm dia	Each	102.00	
8	90 mm dia	Each	113.00	
9	110 mm dia	Each	124.00	
10	125 mm dia	Each	150.00	
11	140 mm dia	Each	158.00	
12	160 mm dia	Each	173.00	
13	180 mm dia	Each	181.00	
14	200 mm dia	Each	193.00	
15	225 mm dia	Each	214.00	
16	250 mm dia	Each	253.00	
17	280 mm dia	Each	270.00	
18	315 mm dia	Each	295.00	
19	355 mm dia	Each	330.00	
20	400 mm dia	Each	386.00	
21	450 mm dia	Each	516.00	
22	500 mm dia	Each	618.00	
23	560 mm dia	Each	760.00	
24	630 mm dia	Each	860.00	
25	710 mm dia	Each	988.00	

10.1 Providing and laying End Cap Conforming to IS specifications.
0

			6 Kg/sq.c m	8 Kg/sq.cm	10 Kg/sq.c m
1	20 mm dia	Each	34.00	34.00	34.00
2	25 mm dia	Each	34.00	34.00	36.00
3	32 mm dia	Each	36.00	36.00	37.00

4	40 mm dia	Each	36.00	37.00	40.00
5	50 mm dia	Each	43.00	47.00	49.00
6	63 mm dia	Each	58.00	58.00	62.00
7	75 mm dia	Each	72.00	75.00	79.00
8	90 mm dia	Each	81.00	82.00	87.00
9	110 mm dia	Each	72.00	85.00	89.00
10	125 mm dia	Each	102.00	140.00	143.00
11	140 mm dia	Each	147.00	167.00	171.00
12	160 mm dia	Each	175.00	244.00	253.00
13	180 mm dia	Each	252.00	293.00	304.00
14	200 mm dia	Each	301.00	350.00	364.00
15	225 mm dia	Each	358.00	358.00	476.00
16	250 mm dia	Each	473.00	548.00	573.00
17	280 mm dia	Each	568.00	631.00	908.00
18	315 mm dia	Each	719.00	789.00	1143.00
19	355 mm dia	Each	934.00	1073.00	1958.00
20	400 mm dia	Each	1442.00	1627.00	2514.00
21	450 mm dia	Each	2047.00	2201.00	4158.00
22	500 mm dia	Each	3031.00	3259.00	4876.00
23	560 mm dia	Each	4282.00	4553.00	7125.00
24	630 mm dia	Each	6039.00	6689.00	8727.00
				7364.00	10072.0
25	710 mm dia	Each	6319.00		0

Providing and Supplying standard lengths Polyethylene pipes with necessary jointing material
PE-100

	Unit	Rate Without GST (In Rs.)
For 6kg/sq,cm		
63mm	RM	92.00
75mm	RM	133.00
90mm	RM	187.00
110mm	RM	276.00
125mm	RM	361.00
140mm	RM	454.00
160mm	RM	597.00
180mm	RM	753.00
200mm	RM	936.00
225mm	RM	1,189.00
250mm	RM	1,460.00
280mm	RM	1,831.00
315mm	RM	2,319.00
355mm	RM	2,967.00
400mm	RM	3,836.00
450 mm	RM	4,853.00
500 mm	RM	6,000.00
560 mm	RM	7,510.00
630 mm	RM	9,508.00
710 mm	RM	11,506.00
For 8kg/sq,cm		-
63mm	RM	118.00
75mm	RM	168.00

90mm	RM	241.00
110mm	RM	361.00
125mm	RM	466.00
140mm	RM	584.00
160mm	RM	768.00
180mm	RM	969.00
200mm	RM	1,207.00
225mm	RM	1,529.00
250mm	RM	1,882.00
280mm	RM	2,361.00
315mm	RM	2,986.00
355mm	RM	3,815.00
400mm	RM	4,943.00
450 mm	RM	6,262.00
500 mm	RM	7,725.00
560 mm	RM	9,697.00
630 mm	RM	12,268.00
710 mm	RM	14,839.00
For 10kg/sq,cm		-
63mm	RM	143.00
75mm	RM	204.00
90mm	RM	292.00
110mm	RM	436.00
125mm	RM	562.00
140mm	RM	703.00
160mm	RM	926.00
180mm	RM	1,186.00
200mm	RM	1,464.00
225mm	RM	1,847.00
250mm	RM	2,275.00
280mm	RM	2,850.00
315mm	RM	3,611.00
355mm	RM	4,635.00
400mm	RM	6,004.00
450 mm	RM	7,575.00
500 mm	RM	9,358.00
560 mm	RM	11,723.00
630 mm	RM	14,852.00
710 mm	RM	17,981.00
For 12.5kg/sq,cm		-
63mm	RM	169.00
75mm	RM	242.00
90mm	RM	351.00
110mm	RM	525.00
125mm	RM	675.00
140mm	RM	847.00
160mm	RM	1,116.00
180mm	RM	1,425.00
200mm	RM	1,757.00
225mm	RM	2,225.00
250mm	RM	2,736.00
280mm	RM	3,431.00

315mm	RM	4,344.00
355mm	RM	5,568.00
400mm	RM	7,219.00
450 mm	RM	9,131.00
500 mm	RM	11,256.00
560 mm	RM	14,109.00
630 mm	RM	17,854.00
For 16kg/sq,cm		-
63mm	RM	456.00
75mm	RM	294.00
90mm	RM	424.00
110mm	RM	634.00
125mm	RM	819.00
140mm	RM	1,025.00
160mm	RM	1,356.00
180mm	RM	1,726.00
200mm	RM	2,131.00
225mm	RM	2,696.00
250mm	RM	3,464.00
280mm	RM	4,169.00
315mm	RM	5,269.00
355mm	RM	6,747.00
400mm	RM	8,747.00
450 mm	RM	11,085.00
500 mm	RM	13,681.00

10.1 Lowering laying Jointing HDPE pipes by heating to
2 the end of pipes with the help of Teflon coated
Electric mirror/heater and jointing will be done
by semi automatic welding machine as per IS -
7634 Part II. Including all cost of material and
labour.

Rate Without
GST
(In Rs.)

63mm	RM	14.00
75mm	RM	18.00
90mm	RM	19.00
110mm	RM	21.00
125mm	RM	26.00
140mm	RM	28.00
160mm	RM	31.00
180mm	RM	32.00
200mm	RM	35.00
225mm	RM	38.00
250mm	RM	44.00
280mm	RM	47.00
315mm	RM	53.00
355mm	RM	58.00
400mm	RM	69.00
450mm	RM	92.00
500mm	RM	110.00
560mm	RM	134.00
630mm	RM	152.00

CREDA SOR for SCIP

C Solar Pumps

SN	Particulars	Unit	Rate For Supply (Without GST)	Rate For Installation & Commissioning (Without GST)	Total Rate (Without GST)
1	Supply, Installation & Commissioning of Solar surface Pump of the capacity 7.5 HP/7.5 KW at site	No.	5,60,000	90,000	6,50,000
2	Supply, Installation & Commissioning of Solar surface Pump of the capacity 10 HP/9.6 KW at site	No.	6,90,000	1,10,000	8,00,000
3	Supply, Installation & Commissioning of Solar surface Pump of the capacity 20 HP/19.2 KW at site	No.	13,42,909	1,90,000	15,32,909

Revised Conditions of the tender no. 15000 dated 20.09.2018

13. TERMS OF PAYMENT (Tender doc. page no. 16)::

The following terms of payment shall apply for the Bid: -

- a. 95% of the eligible payments as per the work order after satisfactory completion & performance test of all allied works at site with proper handing over.
- b. Balance 05% of the eligible payments shall be retained by CREDA as Security Deposit for a period of 60 months. However the same may be released to SI/contractor on submission of TDR (duly pledged in favour of CREDA) of equivalent amount issued by a Scheduled Bank in prescribed format valid for a period of at least five years issued by a scheduled bank.
- c. GST shall be paid extra as applicable on the date of billing.

22. PRICE (Tender doc. page no. 10):

The prices quoted should be firm and F.O.R. destination excluding GST payable on the bill of supply and installation / services. GST as applicable on the date of billing shall be paid additionally as per applicable rate over the above quoted prices.

29. BID EVALUATION CRITERIA (Tender doc. page no. 18):

- a. Offer of only those parties who are found qualifying based on Technical Evaluation Criteria will be taken into further consideration and prices of only those parties qualifying based of these criterion will be opened.
- b. Bids shall be evaluated on the basis of lowest total rates (incl supply, installation & Commissioning) without GST.
- c. CREDA retains right to negotiate rates with L-1 Bidder.
- d. Conditional Bids shall not be accepted.
- e. However CREDA shall have rights and liberty to call any /other parties to work on approved rates as and when required in accordance with quantum of work and scheduled time limits for completion of targets.

31. in continuation of GENERAL CONDITIONS OF CONTRACT (From page no. 12-19)

In Case of any ambiguity, misinterpretation, clerical mistake etc. the interpretation made by CREDA's engineers will be final and obligatory.

We (on behalf of Eligible SI/Bidder) have read all the above stated details & accept to comply with it in total.

(Name, Signature & Seal of the Bidder)