

PUBLIC WORKS DEPARTMENT ARUNACHAL PRADESH



2021 SCHEDULE OF RATES FOR BUILDING WORKS AND SERVICES

**ZERO LEAD BASED
(EXCLUDING CARRIAGE COST)**

**PUBLISHED UNDER THE AUTHORITY OF
THE CHIEF ENGINEER (CSQ)
PWD, ARUNACHAL PRADESH, ITANAGAR**

**PUBLIC WORKS DEPARTMENT
ARUNACHAL PRADESH**



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**CHIEF MINISTER
ARUNACHAL PRADESH**

Message

I am glad to know that Arunachal Pradesh Schedule of Rates - 2021 and Arunachal Pradesh Analysis of Rates - 2021 for Building Works and Services is being brought out by Public Works Department, Arunachal Pradesh. This schedule of rates is needed for realistic preparation of projects as well as their effective implementation on site.

I believe all Engineers who will be implementing building constructions in the State will make use of this schedule and give priority to quality and durability in construction; this will ensure safety of the building in the event of natural calamities.

My best wishes to the Engineers of Public Works Department, Arunachal Pradesh.

A handwritten signature in black ink, appearing to read 'Pema Khandu', with a long, sweeping horizontal line above it.

(Pema Khandu)

KALING TAYENG, IAS
Commissioner



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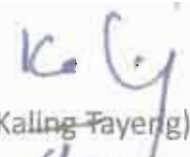
Dated : May 6, 2021

MESSAGE

The Public Works Department, Arunachal Pradesh is bringing out the Schedule of Rates - 2021 and Analysis of Rates - 2021 for Building Works and Services. The Schedule of Rates once brought out will be very useful for preparation of realistic project estimates at the prevailing price level in the market to be adopted in the various regions of the State.

The Public Works Department under Government of Arunachal Pradesh is one of the premier organisations undertaking construction of building works and services in the State. The revision of schedule of rates plays an important role in preparation of estimate, design and scheduling of projects.

I commend all officers and staff who have been part of preparation of Arunachal Pradesh Schedule of Rates - 2021 and Arunachal Pradesh Analysis of Rates - 2021 for Building Works and Services.


(Kaling Tayeng)
6/5

FOREWORD

The Arunachal Pradesh Schedule of Rates and Analysis of Rates for Building works and services was last published in 2018. The Schedule of Rates provides a basic framework to evaluate cost estimate of the projects. The Arunachal Pradesh Schedule of Rates (APSR 2021) and Analysis of Rates (APAR 2021) for Building Works and Services is brought out after updating the basic rates of materials to present market rates.

The important establishments in the state where major construction activities take place are scattered in the different locations with varying distance from the foothills. Hence, in order to evolve common rates for the major construction activities for the purpose of the publication of the Schedule of Rates 2021 for (Building Works and Services), the rates of major construction materials like Cement, Steel etc are updated based on the rates in nearest authorized dealers located in foothill in Assam and in Arunachal Pradesh. In the process of project costing based on this Schedule of Rates, the additional cost involved in carriage of materials from approved sources to site of work shall be added to arrive at the actual execution cost. Further the schedule of Rates shall not be directly adopted for payment to contractor for the work done by them at any site.

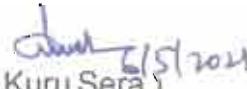
While framing the estimates, the users are to add the carriage charges with actual lead & terrain involved as per rates given in the chapter "Carriage of Materials" which now contains rates for loading, unloading and haulage for both road in plain terrain and for road in hilly terrains.

The APSR 2021 for Building Works and Services is in conformity with the CPWD specification for building works and services. It is emphasized that while adopting the schedule, the users should fully acquaint themselves with the updated CPWD specification for Building Works and Services.

Apart from state PWD, this Schedule of Rates is being used as a guide by a number of departments, public sector undertakings, private builders, architects etc. The state PWD will welcome comments on this Schedule of Rates and Analysis of Rates from the users for improvement in future publication.

I would like to express my appreciation for the sincere effort and dedication put in by all officers and staff in bringing out the Schedule of Rates 2021 (Building works and services) and Analysis of Rates 2021 (Building works and services) with the spirit of team-work.

E-mail : cecsqpwd@gmail.com


(Kuru Sera)
Chief Engineer (CSQ)
PWD, AP, Itanagar

PREFACE

- 1 APSR 2018 and APAR 2018 of Building Works and Services is updated to APSR 2021 and APAR 2021. Carriage charge has to be accounted separately as per actual rate given.
- 2 The rates for completed item at the site of work shall be inclusive of basic rate of material plus the actual carriage cost of materials from source / approved quarry to the site of work. The carriage cost of each category of material can be worked out with the carriage charge attached with this SOR prepared for both plain and hill road parameters based on status of road in hilly Himalayan region of Arunachal Pradesh.
- 3 The basic material incorporated in this APSR - 2021 are conforming to CPWD updated specification and are supposed to be executed as per works manual 2019. The scheduled rate (Building Works and Services) 2021 is now brought out purely for calculating cost of the projects by detailed estimation.
- 4 Water charges 1%, GST 12%, Contractor's profit 10% and Labour Cess 1% has been adopted in the rate of APAR and APSR 2021 (Building Works and Services)
- 5 There has been an addition of 102 new items in this SOR under Earthwork, walling, steelwork, Flooring, Roofing, Finishing, Miscellaneous, Water Supply and Sanitary Installation. A new chapter of PVC and uPVC work has also been added.
- 6 It is mandatory as per CPWD manual that the scheduled rate is updated after every 2 (two) years. Hence, this scheduled rate will be due to revised or updated by 2023. Accordingly, all Divisions / Circles of PWD should furnish basic rates to this office in due date.
- 7 I express my sincere thanks to all office staff members and officers of CSQ, PWD for contributing their time compiling this schedule. Special thanks go to Shri P.S Bhattacharjee, Sr. Estimator (CSQ) and Miss Mary Talom, ASW (CSQ) for their special attention on the job.
- 8 Due care has been made to bring APSR 2021 / APAR 2021 without error; still if such errors are noticed; same could be intimated to SE (CSQ) for necessary correction in the next edition.



Rimmar Taso
Superintending Engineer (CSQ)
PWD, AP, Itanagar.

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BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
<u>A. LABOUR</u>			
A0001	Bandhani	Each	310.00
A0002	Belder	Each	310.00
A0003	Bhisti	Each	310.00
A0004	Blacksmith 1st Class	Each	442.00
A0005	Blacksmith 2nd Class	Each	354.00
A0006	Carpenter 1st Class	Each	442.00
A0007	Carpenter 2nd Class	Each	354.00
A0008	Chowkidar	Each	310.00
A0009	Coolie Female	Each	310.00
A0010	Coolie	Each	310.00
A0011	Fitter	Each	442.00
A0012	Assistant Fitter	Each	354.00
A0013	Mason 1st Class	Each	442.00
A0014	Mason 2nd Class	Each	354.00
A0015	Mate	Each	354.00
A0016	Mistry	Each	442.00
A0017	Painter	Each	354.00
A0018	Rock cutting Labour Excavator	Each	354.00
A0019	Rock cutting Labour Breaker	Each	354.00
A0020	Rock cutting Labour Hole driller	Each	354.00
A0021	Rock cutting Labour Chiseller	Each	354.00
A0023	Skilled Beldar for floor rubbing etc.)	Each	354.00
A0024	Thatcher	Each	354.00
A0025	Assistant Thatcher	Each	310.00
A0026	White Washer	Each	354.00
A0030	Glazier	Each	442.00
A0031	Labour for fabrication of uPVC extruded casement/ sliding windows and doors including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	Each	448.00
A0032	Labour for installation of uPVC extruded casement windows including scaffolding	Each	430.00

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
<u>B. MATERIALS</u>			
B0051	Ballies 80 to 100 mm dia	Metre	55.75
B0052	Ballies 100 to 150 mm dia	Metre	61.06
B0056	3rd class Local wood 150 mm dia	Metre	61.06
B0059	3rd class local wood (Dressed) 100 mm dia	Metre	67.26
B0060	3rd class local wood (Dressed) 125 mm dia	Metre	72.57
B0061	3rd class local wood (Dressed) 150 mm dia	Metre	77.88
B0062	Bamboo 8-10 mm dia	100 Nos	6,690.27
B0063	Muli bamboo (best quality 25 to 40 mm dia)	1000 Nos	27,876.11
B0064	Blasting Materials Detonators	Each	11.06
B0065	Blasting Materials Fuse coil	per Coil	39.82
B0066	Blasting Materials Gelatine	Kg	164.60
B0068	Stone shingle 6 mm nominal size	Cub.m	1,716.81
B0069	Stone shingle 10 mm nominal size	Cub.m	1,661.06
B0070	Stone shingle 12.5 mm nominal size	Cub.m	1,282.30
B0071	Stone shingle 20 mm nominal size	Cub.m	1,103.54
B0072	Stone shingle 40 mm nominal size	Cub.m	579.65
B0073	Stone shingle 50 mm nominal size	Cub.m	535.40
B0090	Broken Stone Aggregate 40 mm size	Cub.m	1,393.81
B0089	Broken Stone Aggregate 50 mm size	Cub.m	1,338.05
B0092	Broken Stone Aggregate 20 mm size	Cub.m	1,784.07
B0093	Broken Stone Aggregate 12.50 mm size	Cub.m	1,895.58
B0094	Broken Stone Aggregate 10 mm size	Cub.m	1,951.33
B0095	Broken Stone Aggregate 6 mm single size	Cub.m	1,939.82
B0096	Fine sand	Cub.m	601.77
B0097	Coarse sand	Cub.m	601.77
B0098	Best quality locale bricks	1000 Nos	10,035.40
B0099	2nd Quality local bricks	1000 Nos	9,477.88
B0101	Bricks Aggregate	Cub.m	1,616.81
B0103	Bricks Aggregate (one size) 50 mm nominal	Cub.m	1,672.57
B0104	Bricks Aggregate (one size) 40 mm nominal	Cub.m	1,694.69
B0105	Bricks Aggregate (one size) 25 mm nominal	Cub.m	1,728.32
B0106	Bricks Aggregate (one size) 20 & 12.50 mm	Cub.m	1,784.07
B0107	Cement	Mt	9,053.98

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0108	White cement	Mt	39,026.55
B0109	Dehradu White Lime	Qtl	1,646.02
B0111	Satna Lime	Qtl	1,393.81
B0112	Unslaked Lime	Qtl	1,287.61
B0113	Fat Lime	Qtl	1,390.27
B0114	Coal Tar	Litre	72.57
B0115	Bitumen S/90	Mt	47,120.35
B0116	Bitumen 80/100	Mt	57,350.44
B0117	Insulating Board 12 mm thick	Sq.m	836.28
B0118	Impregrated fibre boars 12 mm thick	Sq.m	638.94
B0119	Teak wood particle board 12 mm thick	Sq.m	501.77
B0120	Flat pressed 3 layer particle boars	Sq.m	1,092.92
B0121	Extra for particle board each face	Sq.m	579.65
B0125	Steam Coal	Qtl	969.91
B0126	Fire Wood	Qtl	334.51
B0127	Dry Distemper	Kg	84.07
B0134	Al Fitting (Butt hinges) 125x75x4 mm	10 Nos	684.07
B0135	Al Fitting (Butt hinges) 125x63x4 mm	10 Nos	626.55
B0136	Al Fitting (Butt hinges) 100x75x4 mm	10 Nos	615.04
B0137	Al Fitting (Butt hinges) 100x75x3.2 mm	10 Nos	602.65
B0138	Al Fitting (Butt hinges) 100x63x4 mm	10 Nos	602.65
B0139	Al Fitting (Butt hinges) 75x63x4 mm	10 Nos	591.15
B0140	Al Fitting (Butt hinges) 75x63x3.2 mm	10 Nos	568.14
B0141	Al Fitting (Butt hinges) 50x45x3.2 mm	10 Nos	463.72
B0144	Al Fitting (Handles) 125 mm with PL. 17 mm	10 Nos	602.65
B0145	Al Fitting (Handles) 100 mm with PL. 15 mm	10 Nos	458.41
B0146	Al Fitting (Handles) 75 mm with PL. 12 mm	10 Nos	388.50
B0147	Al Fitting (Screw) 50 mm	100 Nos	290.27
B0148	Al Fitting (Screw) 40 mm	100 Nos	254.87
B0149	Al Fitting (Screw) 30 mm	100 Nos	185.84
B0150	Al Fitting (Screw) 25 mm	100 Nos	145.13
B0151	Al Fitting (Screw) 20 mm	100 Nos	115.93
B0152	Al Fitting (Sliding door bolts) 300x16 mm	Each	197.35
B0153	Al Fitting (Sliding door bolts) 250x16 mm	Each	156.64

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0154	Al Fitting (T. bolts Barrel type) 300x10 mm	Each	1,003.54
B0155	Al Fitting (T. bolts Barrel type) 250x10 mm	Each	730.97
B0156	Al Fitting (T. bolts Barrel type) 125x10 mm	Each	458.41
B0157	Al Fitting (T. bolts Barrel type) 100x10 mm	Each	365.49
B0166	Kicking plate 50 cm long 100x15 mm	Each	187.61
B0168	Ox. MS Butt (Handles) 125 mm	Each	23.01
B0169	Ox. MS Butt (Handles) 100 mm	Each	21.24
B0170	Ox. MS Butt (Handles) 75 mm	Each	18.58
B0171	Ox. MS Hapse and Staples (150 mm)	10 Nos	501.77
B0172	Ox. MS Hapse and Staples (115 mm)	10 Nos	474.34
B0173	Ox. MS Hapse and Staples (90 mm)	10 Nos	446.02
B0175	Ox. MS Butt hinges 75x47x1.70 mm	10 Nos	116.81
B0180	Ox. MS Hooks and Eyes 300 mm	10 Nos	217.70
B0181	Ox. MS Hooks and Eyes 250 mm	10 Nos	195.58
B0182	Ox. MS Hooks and Eyes 200 mm	10 Nos	155.75
B0183	Ox. MS Hooks and Eyes 150 mm	10 Nos	153.10
B0183	Ox. MS Hooks and Eyes 100 mm	10 Nos	139.82
B0186	Ox. MS Screws 40 mm	100 Nos	106.19
B0188	Ox. MS Screws 25 mm	100 Nos	55.75
B0206	Ox. MS Door Latch 300x20x6 mm	100 Nos	113.27
B0207	Ox. MS Door Latch 250x20x6 mm	100 Nos	97.35
B0208	MS Bolt and Nuts 50x6 mm	Each	6.46
B0216	Iron Butt Hinges 125x65x2.12 mm	10 Nos	362.83
B0217	Iron Butt Hinges 100x58x1.90 mm (Medium)	10 Nos	123.01
B0218	Iron Butt Hinges 75x47x1.70 mm	10 Nos	106.19
B0219	Iron Butt Hinges 50x37x1.50 mm (Medium)	10 Nos	100.00
B0229	MS Screw 50 mm	100 Nos	86.73
B0230	MS Screw 45 mm	100 Nos	77.88
B0231	MS Screw 40 mm	100 Nos	77.88
B0232	MS Screw 30 mm	100 Nos	61.06
B0233	MS Screw 25 mm	100 Nos	55.75
B0234	MS Screw 20 mm	100 Nos	50.44
B0235	MS Sliding Door Bolts 300x16 mm	Each	183.19
B0236	MS Sliding Door Bolts 250x16 mm	Each	109.73

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0237	MS Tower Bolts (Barrel) 250x10 mm	Each	64.60
B0238	MS Tower Bolts (Barrel) 200x10 mm	Each	48.67
B0239	MS Tower Bolts (Barrel) 150x10 mm	Each	38.94
B0240	MS Tower Bolts (Barrel) 100x10 mm	Each	38.94
B0247	Iron T-Hinges 300x115x2.24 mm	10 Nos	420.35
B0248	Iron T-Hinges 250x100x2.24 mm	10 Nos	323.01
B0251	MS Piano hinges finish with Nickel plating	Metre	58.41
B0264	Prt. Board (Teak wood ply both) 40 mm	Sq.m	1,672.57
B0265	Prt. Board (Teak wood ply both) 35 mm	Sq.m	1,449.56
B0267	Prt. Board (Teak wood ply both) 25 mm	Sq.m	1,226.55
B0268	Prt. Board (Commercial) 40 mm	Sq.m	1,003.54
B0269	Prt. Board (Commercial) 35 mm	Sq.m	947.79
B0270	Prt. Board (Commercial) 30 mm	Sq.m	892.04
B0285	GI Corrugated sheets	Qtl	6,725.66
B0286	GI Plain sheets (0.80 mm....0.63 mm)	Qtl	6,204.42
B0287	Glass sheet of 2 to 3 mm thick	Sq.m	390.27
B0291	Superior plate glass 4 mm thick	Sq.m	418.58
B0292	Frosted glass panes 2 mm thick	Sq.m	431.86
B0296	AC sheet (plain) 4 mm thick	Sq.m	153.98
B0297	Glass Strips 4 mm thick 40 mm wide	Metre	48.67
B0298	Glass Strips 6 mm thick 40 mm wide	Metre	51.33
B0299	Multipurpose fibre(high impact poly propylene reinforced) cement board 6mm thick	Sq.m	251.33
B0301	Aluminium Strips	Kg	264.60
B0302	AC Plain sheets plain 6 mm thick	Sq.m	226.55
B0304	Standard Quality hard board sheet 4 mm thick	Sq.m	174.34
B0305	Glue for wood work	Kg	155.75
B0306	Hessian Cloth	Sq.m	52.21
B0307	Hiramachi	Qtl	2,230.09
B0308	Jali (Cement concrete) 50 mm thick	Sq.m	390.27
B0309	Jali (Cement concrete) 40 mm thick	Sq.m	223.01
B0310	Jali (Cement concrete) 25 mm thick	Sq.m	189.38
B0318	Pulleys 38 mm dia	Each	323.01
B0320	Marble chips up to 4 mm and down size	Qtl	557.52
B0321	Marble chips up to 4 mm and down size	Qtl	669.03

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0322	Marble chips up to 4 mm and down size	Qtl	678.76
B0323	Marble chips above 4 mm white & black	Qtl	533.63
B0324	Marble dust/powder	Cub.m	4,607.96
B0326	Diesel oil	Litre	78.02
B0327	Kerosine Oil	Litre	34.51
B0328	Linseed Oil (raw)	Litre	138.94
B0330	Turpentine Oil	Litre	92.92
B0331	Dhari 90 x 90 cm size	100 Nos	1,034.51
B0332	Dhari mat 1.37 x 1.83 m size	Each	30.97
B0335	Coir rope	Kg	76.99
B0336	Aluminium Paints	Litre	338.05
B0337	Anticorrosive Bituminous Paint (Black)	Litre	195.58
B0338	Black Japan paint	Litre	223.01
B0339	Enamel Paint	Litre	243.36
B0342	Emulsion Plastic Paint	Litre	251.33
B0344	Superior ready mixed paint for wood work	Litre	323.01
B0345	Superior ready mixed paint for steel work	Litre	323.01
B0346	Roofing paint for Iron sheets in W/Green	Litre	185.84
B0348	Red Lead (Ready Mixed) paint	Litre	193.81
B0349	Zinc chromate yellow primer (Ready mixed) mixed	Litre	167.26
B0350	White Lead	Litre	174.34
B0351	Water Proofing cement paint	Kg	195.58
B0353	Floor enamel paint in all shades	Kg	323.01
B0355	Oil type preservative	Litre	278.76
B0356	Paint remover	Litre	178.76
B0360	Sunthetic enamel paint black or chocolate	Litre	208.85
B0362	Pigment for flooring Black colour dark	Mt	139.82
B0363	Pigment for flooring Red chocolate light	Kg	155.75
B0364	Pigment for flooring Green or Blue	Kg	139.82
B0366	AC RW Pipes 80/76.2 mm dia	Each	217.70
B0367	AC RW Pipes 100/101.6 mm dia	Each	435.40
B0373	AC Std. Shoe 80/76.2 mm dia	Each	86.73
B0374	AC Std. Shoe 100/101.6 mm dia	Each	99.12
B0376	AC off 50/52.2 mm Projection 80/76.2 mm dia	Each	86.73

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0377	AC off 50/52.2 mm Projection 100/101.1 mm dia	Each	91.15
B0382	AC off 150/152.2 mm Projection 80/76.2 mm dia	Each	217.70
B0383	AC off 150/152.2 mm Projection 100/101.6 mm	Each	238.05
B0386	AC Bends 80/76.2 mm dia with door	Each	158.41
B0388	AC Bends 100/101.6 mm dia with door	Each	257.52
B0390	AC RW Head 80 mm dia	Each	99.12
B0391	AC RW Head 100 mm dia	Each	138.94
B0396	AC sheet (Corrugated) 6 mm thick	Sq.m	246.02
B0397	AC sheet (Corrugated) 7 mm thick	Sq.m	246.02
B0398	Serrated or plain wing Adjustable ridge	Pair	231.86
B0399	Close fitting adjust. Ridge 1.10 m long	Pair	273.45
B0403	CI RW pipe 75 mm dia 1.80 m long	Each	1,101.77
B0404	CI RW pipe 100 mm dia 1.80 m long	Each	1,333.63
B0405	CI RW pipe 150 mm dia 1.80 m long	Each	2,029.20
B0406	CI Plain bend 75 mm dia (Inner)	Each	211.50
B0407	CI Plain bend 100 mm dia (Inner)	Each	406.19
B0408	CI Plain bend 150 mm dia (Inner)	Each	695.58
B0409	CI Head flat or Corner type bend 75 mm	Each	251.33
B0410	CI Head flat or Corner type bend 100 mm	Each	300.88
B0411	CI Head flat or Corner type bend 150 mm	Each	724.78
B0412	CI plain shoe 75 mm dia (Inner)	Each	351.33
B0413	CI plain shoe 100 mm dia (Inner)	Each	530.09
B0414	CI plain shoe 150 mm dia (Inner)	Each	646.90
B0415	CI off (Plain) 75 mm dia, 55 mm Projection	Each	253.10
B0416	CI off (Plain) 75 mm dia, 150 mm Projection	Each	330.09
B0417	CI off (Plain) 100 mm dia, 55 mm Projection	Each	421.24
B0418	CI off (Plain) 100 mm dia, 150 mm Projection	Each	538.94
B0419	CI off (Plain) 150 mm dia, 55 mm Projection	Each	562.83
B0420	CI off (Plain) 150 mm dia, 150 mm Projection	Each	574.34
B0435	SW pipe 100 mm dia 600 mm long	Each	200.88
B0436	Cement pipe 100 mm dia 600 mm long	Each	231.86
B0439	Aluminium Primer	Litre	184.07
B0440	Cement Primer	Litre	155.75
B0441	Distemper Primer	Litre	133.63

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0442	Prink Primer for wood	Litre	139.82
B0443	Primer for expansion joint	Litre	200.88
B0445	Wax polish (ready made)	Kg	301.77
B0448	Rolling Shutters made of 80x1.25 mm	Sq.m	1,778.76
B0449	Top cover of rolling shutter	Metre	718.58
B0450	27.50 cm long wire spring No. 2	Each	439.82
B0451	Ball bearing for rolling shutters	Each	382.30
B0452	Spirit	Litre	81.42
B0454	Hard Board sheet 3 mm thick	Sq.m	145.13
B0462	Mild steel Barbed wire	Qtl	10,035.40
B0464	Steel Bolts, Nuts & Washers up to 300 mm long	Qtl	11,150.44
B0465	Steel Bolts, Nuts & Washers above 300 mm long	Qtl	11,150.44
B0467	Mild steel Expanded metal 20x60mm	Sq.m	347.79
B0468	MS Flate exceeding 3.15 mm	Qtl	6,377.88
B0469	MS Flate up to 3 mm	Qtl	5,798.23
B0471	20 mm holding down bolts	Qtl	11,150.44
B0475	Mild steel bars above 16 mm dia	Qtl	5,982.30
B0476	Mild steel round bars	Qtl	5,982.30
B0477	Twisted steel/deformed bars	Qtl	5,982.30
B0480	Structural steel such as T, Angle & Channels etc.	Qtl	6,801.77
B0482	Mild steel tubes, 40 mm & 50 mm dia	Kg	63.72
B0486	GI Barbed Wire	Qtl	10,035.40
B0487	GI "J" or "L" hooks 8 mm dia	Each	13.89
B0488	GI Bolts and nuts (38x8 mm)	Each	13.89
B0489	GI seam bolts and nuts (25x6 mm)	Each	4.65
B0493	Through and bond stone	100 Nos	1,449.56
B0502	Stone at Quarry	Cub.m	576.11
B0503	Stone for Masonry work	Cub.m	576.11
B0505	Tiles Cheqq. terra 22 mm thick Light shade	Sq.m	874.34
B0506	Tiles Cheqq. terra 22 mm thick Medium shade	Sq.m	876.11
B0507	Tiles Cheqq. terra 22 mm thick Dark shade	Sq.m	889.38
B0511	Tiles PC terra 20 mm thick Light shade	Sq.m	453.10
B0512	Tiles PC terra 20 mm thick Medium shade	Sq.m	453.10
B0513	Tiles PC terra 20 mm thick Dark shade	Sq.m	453.10

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0514	White glazed tiles 150x150x5 mm thick	10 Nos	347.79
B0516	Timber Plank - Class A iv	ten cubic dm	390.27
B0517	Timber Plank B I	ten cubic dm	362.83
B0518	Timber Plank Class C	ten cubic dm	334.51
B0519	Timber Scantling - Class A iv	ten cubic dm	362.83
B0520	Timber scanting class B I	ten cubic dm	334.51
B0521	Timber scanting class B II	ten cubic dm	307.08
B0522	Timber scanting class C	ten cubic dm	278.76
B0532	Bhusa	Kg	12.92
B0536	Vision panel Square (Sqm) of door area	Sq.m	139.16
B0537	Vision panel Circle (Sqm) of door area	Sq.m	226.11
B0538	Louvers Deco. type (Sqm) of door area	Sq.m	376.99
B0539	Louvers Comm. type (Sqm) of door area	Sq.m	376.99
B0541	Hoop Iron 25 mmx1.60 mm	Qtl	11,150.44
B0543	Mud (dry)	Cub.m	72.57
B0544	Ordinary Varnishes	Litre	205.31
B0545	Superior Copal varnishes	Litre	220.35
B0546	Superior Spar varnishes	Litre	256.64
B0548	Rivets (16 mm dia 50 mm long)	Qtl	12,700.00
B0549	Redoxide	Kg	150.44
B0550	Surkhi	Cub.m	840.71
B0551	Sun grass (thatch) 30 cm dia bundle	100 Bundles	579.65
B0552	GI Limpet washer	Each	4.07
B0553	Bitumen washer	Each	3.50
B0554	GI plain washer	Each	4.07
B0557	Water Proofing materials	Kg	64.60
B0560	Welding by gas plant	Cm	5.75
B0561	Welding by Electric plant	Cm	4.87
B0562	Whiting	Qtl	1,552.21
B0564	Wooden Plug	Each	6.46
B0565	Wire (GI)	Qtl	8,920.35
B0568	Mesh wire gauge 24 BWG	Sq.m	133.63
B0570	100 mm mortar latch & lick (Chrom plated)	Each	324.78
B0571	Blown or / and residual bitumen	Mt	58,677.88

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0572	Bitumen felt type 2 grade I	Sq.m	92.92
B0573	Bitumen felt type 3 grade I	Sq.m	81.19
B0574	Bitumen solution primer	Litre	57.96
B0575	Under Layer bitumen felt type I	Sq.m	81.15
B0576	Plastic roofing compound black	Qtl	4,406.64
B0577	Liquid Plastic roofing compound	Litre	161.68
B0578	MS holder bat clamp 75 mm	Each	20.88
B0579	MS holder bat clamp 100 mm	Each	24.25
B0580	MS holder bat clamp 150 mm	Each	34.78
B0581	Welded steel wire fabric	Sq.m	510.27
B0582	Copper Plate	Kg	735.93
B0583	Putty	Kg	92.04
B0584	Glass panes 2 mm thick	Sq.m	501.24
B0585	Glass panes 3 mm thick	Sq.m	710.62
B0587	Al Fittings (Butt hinges) 75x47x1.7 mm	10 Nos	463.72
B0588	Iron Butt Hinges 100x50x1.9 mm	10 Nos	123.01
B0589	Al Fittings (Butt hinges) 75x45x3.2 mm	10 Nos	463.72
B0590	Bitumen Sealing Compound	Litre	47.12
B0591	Structurals such as tees, angles channels and R.S. joists	Qtl	6,378.76
B0593	RS or CI bracket for flushing cistern	Pair	72.57
B0595	Mahogany polished with lid	Each	107.08
B0596	Mahogany polished with lid	Each	89.38
B0597	Black plastic sheet and lid	Each	267.26
B0599	GI "J" or "L" hooks 10 mm dia	Each	13.89
B0607	Bracket GI for Flushing cistern	Each	72.57
B0610	CP brass chain with 32 mm rubber plug	Each	113.27
B0611	CP brass chain with 40 mm rubber plug	Each	145.13
B0613	Cistern Low-level 12.5 Litre with fittings	Each	2,019.47
B0614	Auto CI flushing cistern 5 Litre capacity	Each	615.31
B0615	Auto CI flushing cistern 10 Litre capacity	Each	889.38
B0616	Auto CI flushing cistern 15 Litre capacity	Each	969.91
B0617	Auto CI Flushing cistern 12.50 Litres	Each	930.09
B0618	Holder bat clamp 32 mm	Each	64.60
B0628	Brass Bib cock 15 mm dia	Each	243.36

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0629	Brass Bib cock 20 mm dia	Each	261.06
B0630	Brass Bib cock 25 mm dia	Each	267.26
B0631	Brass Stop cock 20 mm dia	Each	324.78
B0632	Brass Stop cock 25 mm dia	Each	267.26
B0633	Brass Stop cock 25 mm dia	Each	267.26
B0634	Brass Stop cock 32 mm dia	Each	434.51
B0635	Brass Stop cock 40 mm dia	Each	994.69
B0636	Brass Stop cock 50 mm dia	Each	1,480.53
B0640	CI cover mosquito proof 25 mm	Each	848.67
B0641	CI cover with frame 300x300 mm inside	Each	1,092.92
B0646	Foot Rests Vitreous china 250x130x30 mm	Pair	167.26
B0647	Foot Rests Vitreous china 250x125x25 mm	Pair	167.26
B0667	Single socketed Asbestos Pipe 50 mm dia	Each	657.52
B0668	Single socketed Asbestos Pipe 75 mm dia	Each	669.03
B0669	Single socketed Asbestos Pipe 100 mm dia	Each	724.78
B0676	Equal Junction (Plain) 50x50x50 mm	Each	256.64
B0678	Equal Junction (Plain) 100x100x100 mm	Each	362.83
B0679	Equal Junction with Acc Door 50x50x50 mm	Each	278.76
B0680	Equal Junction with Acc Door 80x80x80 mm	Each	362.83
B0681	Equal Junction with Acc Door 100x100x10 mm	Each	434.51
B0705	HD Polythene Pipe 20 mm dia	Metre	43.63
B0706	HD Polythene Pipe 25 mm dia	Metre	63.05
B0707	HD Polythene Pipe 32 mm dia	Metre	98.63
B0708	HD Polythene Pipe 40 mm dia	Metre	156.81
B0709	HD Polythene Pipe 50 mm dia	Metre	248.94
B0718	GI Pipe 15 mm dia (Medium)	Metre	121.77
B0719	GI Pipe 20 mm dia (Medium)	Metre	144.96
B0720	GI Pipe 25 mm dia (Medium)	Metre	185.58
B0721	GI Pipe 32 mm dia (Medium)	Metre	208.76
B0722	GI Pipe 40 mm dia (Medium)	Metre	255.13
B0723	GI Pipe 50 mm dia (Medium)	Metre	334.51
B0724	GI Pipe 65 mm dia (Medium)	Metre	423.72
B0725	GI Pipe 80 mm dia (Medium)	Metre	546.37
B0788	GI Tees (Equal) GI Inlet connection	Each	646.73

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0789	Single socketed pipe 1.83 m long, 50 mm	Each	992.39
B0790	Single socketed pipe 1.83 m long, 75 mm	Each	1,101.77
B0791	Single socketed pipe 1.83 m long, 100 mm	Each	1,333.63
B0817	Sand cast Iron Heel rest Bend 50 mm	Each	254.87
B0818	Sand cast Iron Heel rest Bend 75 mm	Each	278.76
B0819	Sand cast Iron Heel rest Bend 100 mm	Each	305.31
B0823	PVC Connection pipe 30 cm long, 15 mm dia	Each	78.05
B0824	PVC Connection pipe 30 cm long, 20 mm dia	Each	139.38
B0825	PVC Connection pipe 45 cm long, 15 mm dia	Each	61.33
B0826	PVC Connection pipe 45 cm long, 20 mm dia	Each	96.99
B0829	NP2 class pipe 100 mm dia	Metre	273.23
B0830	NP2 class pipe 150 mm dia	Metre	360.53
B0831	NP2 class pipe 250 mm dia	Metre	527.08
B0832	NP2 class pipe 300 mm dia	Metre	761.50
B0833	NP2 class pipe 450 mm dia	Metre	1,656.77
B0835	NP2 class pipe 600 mm dia	Metre	2,397.74
B0836	NP2 class pipe 700 mm dia	Metre	2,483.41
B0839	NP2 class pipe 900 mm dia	Metre	3,755.84
B0840	NP2 class pipe 1000 mm dia	Metre	4,128.58
B0843	NP2 class Collars 100 mm dia	Each	72.39
B0844	NP2 class Collars 150 mm dia	Each	100.04
B0845	NP2 class Collars 250 mm dia	Each	138.58
B0846	NP2 class Collars 300 mm dia	Each	158.76
B0847	NP2 class Collars 450 mm dia	Each	381.24
B0849	NP2 class Collars 600 mm dia	Each	524.78
B0850	NP2 class Collars 700 mm dia	Each	565.88
B0853	NP2 class Collars 900 mm dia	Each	927.43
B0854	NP2 class Collars 1000 mm dia	Each	1,034.78
B0857	Stone ware pipes - 100 mm (60 cm long)	Each	153.54
B0858	Stone ware pipes - 150 mm (60 cm long)	Each	197.26
B0859	Stone ware pipes - 200 mm (60 cm long)	Each	268.41
B0866	Shower rose (for 15 mm to 20 mm inlet) 100 mm	Each	388.94
B0867	Shower rose (for 15 mm to 20 mm inlet) 150 mm	Each	593.45
B0869	Spun Yarn	Kg	64.69

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
39	B0870 Toilet paper holder of standard size	Each	624.42
77	B0871 Toilet paper holder of standard size	Each	468.89
63	B0882 HP with copper Floats 15 mm dia	Each	325.58
87	B0883 HP with copper Floats 20 mm dia	Each	444.91
76	B0884 LP with copper Floats 15 mm dia	Each	325.58
31	B0885 LP with copper Floats 20 mm dia	Each	444.91
05	B0886 LP with copper Floats 25 mm dia	Each	677.96
38	B0887 HP with Polythene Floats 15 mm dia	Each	77.61
33	B0888 HP or LP with Polythene Floats 20 mm dia	Each	90.53
99	B0889 HP or LP with Polythene Floats 25 mm dia	Each	129.38
23	B0893 Full way Valve (Brass) 32 mm dia	Each	602.12
53	B0894 Full way Valve (Brass) 40 mm dia	Each	994.60
08	B0895 Full way Valve (Brass) 50 mm dia	Each	1,480.80
50	B0896 Full way Valve (Brass) 65 mm dia	Each	1,760.62
77	B0897 Full way Valve (Brass) 80 mm dia	Each	3,148.89
74	B0898 Non Return Valve (GM) 25 mm dia	Each	382.65
41	B0899 Non Return Valve (GM) 32 mm dia	Each	534.07
84	B0900 Non Return Valve (GM) 40 mm dia	Each	763.81
58	B0901 Non Return Valve (GM) 50 mm dia	Each	1,200.88
39	B0902 Non Return Valve (GM) 65 mm dia	Each	1,939.03
04	B0903 Non Return Valve (GM) 80 mm dia	Each	3,411.50
58	B0912 Flat back WB (Vitreous China) 550x400 mm	Each	1,226.55
76	B0914 India WC Pan size 580 mm	Each	913.01
24	B0915 Orissa WC Pan size 580 mm	Each	1,226.55
78	B0916 WC Pedestal (Vitreous China)	Each	2,118.58
88	B0930 32 mm GI For flushing cistern	Each	334.51
43	B0931 20 m GI overflow pipe	Metre	258.67
78	B0932 100 mm sand CI 'P' or 'S' trap with vent	Each	365.31
54	B0933 Urinal Basin	Each	613.27
26	B0934 GI Flush pipe	Each	202.92
41	B0935 CP brass pillar tap	Each	323.36
94	B0936 MI union 32 mm dia	Each	139.16
45	B0937 Porcelain stopper	Each	32.48
69	B0938 White plastic sheet and lid	Each	660.97

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B0939	White glazed fire clay sink 600x450x150 mm	Each	2,062.83
B0940	White vitreous china sink 600x400x200 mm	Each	3,880.35
B0941	CP brass waste of standard pattern	Each	145.49
B0942	Rubber Plug	Each	56.64
B0943	CP brass waste 32 mm dia	Each	92.92
B0944	CP brass waste 40 mm dia	Each	129.20
B0945	MI fisher Union 32 mm dia	Each	139.16
B0946	MI fisher Union 40 mm dia	Each	214.51
B0947	CP brass or MI trap 32 mm dia	Each	266.73
B0948	CP brass or MI trap 40 mm dia	Each	289.91
B0949	HCI grating	Each	72.74
B0950	Mirror	Each	577.04
B0951	CP brass screws for Mirror	Each	10.04
B0952	Glass shelf with a guard rail	Each	1,026.33
B0953	CP brass towel rail	Each	362.39
B0954	Rubber Washer	Each	24.25
B0955	SCI trap with 100 mm inlet/100 mm outlet	Each	329.73
B0956	SCI trap with 100 mm inlet/75 mm outlet	Each	252.83
B0957	SCI trap with 100 mm inlet/50 mm outlet	Each	185.58
B0963	Full way Valve (Brass) 100 mm dia	Each	4,683.19
B0969	100 mm x 100 mm x Class A iv Batten	ten Cubic dm	376.90
B0973	16 mm dia holding down bolt	Qtl	11,150.44
B0974	Flats steel above 10 mm thickness	Qtl	6,377.88
B0975	Flats steel up to 10 mm thickness	Qtl	6,377.88
B0976	Steel plates 12 mm thick	Qtl	6,801.77
B0977	Shellac	Kg	310.44
B0997	Single Matting	Sq.m	17.43
B1520	GI Pipe 100 mm dia	Metre	819.47
B1521	GI Pipe 150 mm dia	Metre	1,501.77
B1522	Alumunium Corrugated/Troughed Sheet (0.65/0.71mm thick)	Qtl	27,876.11
B1523	Seam Bolt and nut	Set	4.65
B1524	'J' Hook for tubes with bolt,nut, washer and bitumen	Set	25.04
B1525	Vitrified Tiles 500x500mm	Sq.m	892.92
B1526	Vitrified Tiles 600x600mm	Sq.m	985.71

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B1527	Vitrified Tiles 800x800mm	Sq.m	1,101.68
B1528	Vitrified Tiles 1000x1000mm	Sq.m	1,855.44
B1529	Aluminium T or L section	Kg	278.76
B1530	Brass Screws	100nos	255.13
B1531	Anodising 15 microns on aluminium sections	Kg	46.37
B1532	Epoxy Powder coating 50 microns on aluminium sections	Kg	74.25
B1533	Polyester powder coating 50 microns on aluminium sections	Kg	81.19
B1534	Neoprene/EPDM rubber gasket	Metre	29.03
B1535	Prelaminated particle board with one side decorative and other side balancing lamination 12 mm thick	Sq.m	869.73
B1536	Pre-laminated particle board with decorative lamination on both sides 12 mm thick	Sq.m	916.11
B1537	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	Sq.m	603.01
B1538	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	Sq.m	858.14
B1539	Rawl plug 50 mm (designation 10 nos)	Each	11.59
B1540	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	Each	32.48
B1541	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	Each	57.96
B1542	Silicon sealant	cartridge	394.25
B1543	Masking tape	Metre	3.01
B1544	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	Each	214.51
B1545	Stainless steel screws 30 mm x 4 mm	100Nos	37.08
B1546	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	Each	260.88
B1547	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	Each	336.28
B1548	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	Each	591.42
B1549	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	Each	1,072.57
B1550	Brass 100mm mortice latch and lock with 6 levers without pair of handles	Each	324.78
B1551	Aluminium round shape handle-anodised AC 15	10	60.31
B1552	Stainless steel screws 25 mm x 4 mm	100	40.62
B1553	Aluminium round shape handle (Powder Coated)	10	67.26
B1554	Aluminium round shape handle (Polyester powder coated)	10	71.86
B1555	Aluminium Grill	Kg	289.91
B1556	TATA Durashine Zinc- Alloy coated roof sheets (Total coated thickness 0.45mm)	Sq.m	577.61
B1557	Self drilling screws with washer - Fasteners (Tata Bluescope Building product)	Each	11.15
B1558	Durashine zinc-Alloy coated plain ridges	Metre	354.65

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B1559	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	Sq.m	212.00
B1560	Steel glazed door,window/ ventilator, all members like as F7D, F4B, K11 and K12B etc.	Kg	54.00
B1561	Red oxide Zinc chromate primer	Liter	110.00
B1562	Steel beading size 10 x 10 x 1.6 mm (box type)	Metre	27.00
B1563	Pressed steel door frames (mild steel sheet 1.60mm) Profile "B" frame 2+2+1m=5m	Metre	190.00
B1563	Pressed steel door frames (mild steel sheet 1.60mm) Profile "C" frame 2+2+1m=5m	Metre	210.00
B1563	Pressed steel door frames (mild steel sheet 1.60mm) Profile "E" frame 2+2+1m=5m	Metre	240.00
B1564	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	80.00
B1565	Mild steel plates	quintal	4,800.00
B1566	Mild steel tubes electric resistant or induction butt welded	kilogram	47.00
B1567	White marble slab Makrana second quality plain veined 18 mm thick	Sq.m	1,430.00
B1568	White marble Raj Nagar plain 18 mm thick upto or more than 0.50 sqm area	Sq.m	690.00
B1569	Agaria White marble slab plain 18mm thick	Sq.m	1,100.00
B1570	Black Zebra marble slab plain 18mm thick	Sq.m	900.00
B1571	Udaypur green marble slab plain 18mm thick	Sq.m	620.00
B1572	Pink marble slab plain 18mm thick	Sq.m	645.00
B1573	Kota stone slab 20 mm to 25 mm thick	Sq.m	280.00
B1574	Black colour dark shade pigment	k.g	70.00
B1575	Ceramic Glazed Tiles 1st quality 300 x 300mm in all shades and designs of White, Ivory, grey, Fuen Red brown etc.	sq.m	209.10
B1576	12.5 mm thick tapered edge gypsum plain board	sq.m	155.00
B1577	Galvanised Steel ceiling section (size 80x26x0.50mm)	metre	46.00
B1578	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	metre	22.00
B1579	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	metre	38.00
B1580	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	metre	12.00
B1581	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	4.00
B1582	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	38.00
B1583	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	3.00
B1584	All drive screws (for gypsum board)	100 Nos	58.00
B1585	Joint filler	kilogram	26.00
B1586	Joint finisher	kilogram	23.00
B1587	Joint tape roll	roll	100.00
B1588	Primer (for gypsum board)	litre	85.00

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B1589	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	11.00
B1590	U-PVC pipes (working pressure 4 kg / sqcm.) Single socketed pipe 75 mm dia.	Metre	70.00
B1591	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 75 mm dia.	Each	8.00
B1592	U-PVC pipes (working pressure 4 kg / sqcm.) Single socketed pipe 110 mm dia.	Metre	130.00
B1593	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 110 mm dia.	Each	11.00
B1594	Wall Putty	Mt	40,000.00
B1595	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	Metre	125.80
B1596	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	Sq.m	1,085.93
B1597	Stainless steel kitchen sink - with drain board bowl depth 250 mm.	Each	2,480.00
B1598	C.I. bracket for wash basin and sinks	pair	88.00
B1599	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	Each	575.00
B1600	G.I. inlet connection	Each	60.00
B1601	Bottle Trap	Each	620.00
B1602	CP Brass Single lever telephonic wall mixer of approved make	Each	4,500.00
B1603	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	Each	25.00
B1604	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	Each	33.00
B1605	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	Each	35.00
B1606	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	Each	40.00
B1607	Mosquito proof coupling of approved design	Each	30.00
B1608	Circular shape 450 mm dia Mirror with Plastic moulded frame	Each	430.00
B1609	Hard board 6 mm thick	sq.m	115.00
B1610	Rawl plug 50 mm (designation 10 no.)	each	25.00
B1611	Chromium plated Brass screws 25 mm	100 nos	180.00
B1612	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	Each	290.00
B1613	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	Each	340.00
B1614	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	Each	670.00
B1615	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	Each	48.55
B1616	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	Each	77.80
B1617	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	Each	113.60
B1618	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	Each	163.65

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B1619	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	Each	228.70
B1620	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	Each	375.25
B1621	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm outer dia.	Each	793.30
B1622	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm outer dia.	Each	1,031.05
B1623	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm outer dia.	Each	1,466.75
B1624	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm outer dia.	Each	3,145.15
B1625	G.I. pipes 15 mm dia	metre	91.00
B1626	G.I. pipes 20 mm dia	metre	120.00
B1627	G.I. pipes 25 mm dia	metre	171.00
B1628	G.I. pipes 32 mm dia	metre	215.00
B1629	G.I. pipes 40 mm dia	metre	250.00
B1630	G.I. pipes 50 mm dia	metre	310.00
B1631	C.P. Brass long nose bibcock 15 mm	Each	430.00
B1632	C.P. Brass long body bibcock 15 mm	Each	385.00
B1633	C.P. Brass stop cock (concealed) 15 mm	Each	430.00
B1634	C.P. Brass angle valve 15 mm	Each	375.00
B1635	Polyethylene water storage tank with cover and suitable locking arrangement	Per.Ltr	5.50
B1636	Stainless steel (Grade-304)hollow section round/square tubes	Kg	220.00
B1637	Stainless steel bolts/square bar and plates	Kg	115.00
B1638	75mm x 53mm x 2.0mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	meter	400.00
B1639	Factory made door frame of size 50x47mm with wall thickness 5 mm made of single piece extruded profile	meter	298.75
B1640	37 mm thick Factory made fusion welded shutter with style,rails and panels of PVC extruded section in wooden finish.	meter	2,400.00
B1641	Block board construction flush door with teak wood ply on both faces 35 mm thick	Sq.m	1,800.00
B1642	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	255.00
B1643	Stainless steel screws 40 mm	100 Nos	215.00
B1644	Factory made PVC rigid foam panelled shutter i/c carriage	Sq.m	1,547.45
B1645	Powder coated M.S. butt hinges 100mm X58mm X1.9mm	10 Nos	123.00
B1646	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	60.00
B1647	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	30.00
B1648	30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	Sq.m	1,248.85
B1649	uPVC extruded (small series) casement window frame size 47x50mm i/c 5% wastage	Metre	258.30

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
B1650	uPVC extruded (small series) casement window sash/window Mullion size 47x68mm i/c 5% wastage size 47x68mm i/c 5% wastage (Window Sash = 7.28 M + Window Mullion = 2.52 M Total = 9.80 M)	Metre	282.90
B1651	uPVC extruded glazing bead of appropriate dimension for small series casement window Sash i/c 5% wastage	Metre	98.40
B1652	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window frame, sash, mullion i/c 5% wastage (Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window frame, sash, mullion i/c 5% wastage) Window Frame = 6.00 M + Window Sash = 6.68 M + Window Mullion = 2.37 M Total = 15.05 M	Metre	66.00
B1653	EPDM Gasket for uPVC window i/c 5% wastage	Metre	19.00
B1654	G.I fasteners 100 x 8 mm	each	14.00
B1655	Stainless steel friction hinges (SS-304 grade) size 350 x 19 x 1.9 mm for uPVC window	each	345.00
B1656	Zinc alloy (white powder coated) casement handle for uPVC window	each	130.00
B1657	Factory made door frame PVC extruded sheet i/c carriage	Metre	251.60
B1658	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	Sq.m	1,085.95
B1659	50mmX42mmX2mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	Sq.m	160.00
B1660	25 mm thick melamine faced prelam inated three layer particle board	Sqm	900.00
B1661	1mm thick 35mm wide bright finished stainless steel piano hinges	meter	42.00
B1662	Oxidised mild steel screws 25 mm	100 Nos	36.00
B1663	IInd class teak wood lipping 25 mm wide x 12 mm thick	meter	29.00
B1664	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	Sqm	300.00
B1665	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	Sqm	400.00
B1666	12 mm M.S. 'U' beading	meter	14.00
B1667	White plastic seat (solid)with lidC.P.brass hinges and rubber buffers	each	400.00
B1668	Vitreous china pedestal type water closet	each	1,000.00
B1669	100 mm S.C.I. trap with vent heel	each	320.00
B1670	Mild steel tubes hot finished welded type	kg	57.00
B1671	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/lit.	Litre	50.00
<u>C. CARRIAGE</u>			
C1005	Carriage of timber	Cub.m	0.00
C1014	Carriage - cement	Mt	0.00
C1041	Carriage of bricks	1000 Nos	0.00
C1050	Carriage of bitumen	Mt	0.00
C1059	Carriage of Sand,Aggregates,etc.	Cub.m	0.00
C1068	Carriage of SW pipes 300 mm dia	100 m	0.00

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
C1077	Carriage of SW pipes 450 mm dia	100 m	0.00
C1086	Carriage of SW pipes 600 mm dia	100 m	0.00
C1167	Carriage of NP2 100	100 m	0.00
C1185	Carriage of NP2 150	100 m	0.00
C1203	Carriage of NP2 250	100 m	0.00
C1212	Carriage of NP2 300	100 m	0.00
C1239	Carriage of NP2 450	100 m	0.00
C1248	Carriage of NP2 600	100 m	0.00

D. MACHINERY

D1405	Road Roller (8 to 10 tonnes)	Hour	1,393.81
D1449	Water Pump (5 to 8 HP diesel)	Hour	37.17
D1450	Machine for rubbing of floors	day	309.73

L. LUMPSUM & OTHER

L0001	Sundries		2.54
L0002	Carriage(coal tar/timber) etc.		2.54
L0003	Scaffolding etc.		2.54
L0004	Screw and nails etc.		2.54
L0005	Hire and running charges of mech mixer		2.54
L0006	Labour for hoisting & fixing		2.54
L0007	Lifting		2.54
L0009	Cement and Sand (Mortar)		2.54
L0011	Labour for screening and spreading grit		2.54
L0012	Clamps		2.54
L0013	Extra Labour		2.54
L0015	Indigo, Gum, copper sulphate etc		2.54
L0016	Coloring staff		2.54
L0017	Brushes, sand papers, putty soap etc.		2.54
L0019	Repairs to scratches		2.54
L0020	Painting two coats of coal tar		2.54
L0021	Disposal of Mulba		2.54
L0022	Painting or varnishing or leeswaxing		2.54
L0023	Methylated spirit		2.54
L0024	Making good the holes		2.54
L0027	Concrete for fixing		2.54

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
L0028	Disposal of earth spread over floor portion		2.54
L0029	Handle and locking arrangement		2.54
L0030	Bolts & Nuts		2.54
L0031	Cement Concrete (1: 2: 4)		2.54
L0032	Rivets, fixing hooks, washers etc.		2.54
L0033	MS Flats 25x3 mm & 10 cm long over bra		2.54
L0034	Welding charges		2.54
L0035	Nails and spikes		2.54
L0036	Special for overflow pipes		2.54
L0037	Red lead, white lead and gasket		2.54
L0038	Cement, sand and grit etc		2.54
L0039	Cement, mortar, spun yarn		2.54
L0040	Polishing of wooden seat and cleaning		2.54
L0041	White lead, Hemp, oil etc		2.54
L0042	Av cost of running & unkeep of mortar		2.54
L0043	Coir and Jute string		2.54
L0045	Rubbish		2.54
L0046	Plugs, Screws etc		2.54
L0047	Wire and nails		2.54
L0048	Fixing		2.54
L0049	Painting brackets and fittings		2.54
L0050	Add for delay		2.54
L0052	Chequered Plate		2.54
L0053	Extra for removing burrs, cleaning complete		2.54
L0054	Gum, Glue		2.54
L0055	Lime		2.54
L0057	Spreading earth on floor (75 mm thick)		2.54
L0059	Kerosene Oil, Linseed oil etc.		2.54
L0060	Pigment (color)		2.54
L0062	White wooden cloth		2.54
L0063	Wooden Plug		2.54
L0064	GI staples or binding wire		2.54
L0066	Cement for neat finishing		2.54
L0067	Wooden block and screws		2.54

BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
L0068	Iron Gratings 150 mm dia		2.54
L0069	Exca. Trans. & stacking post to required		2.54
L0070	Transporting and stacking		2.54
L0071	Cutting		2.54
L0072	Excavation in circulars		2.54
L0073	Painting two or more coats to exposed surface		2.54
L0085	Mortar for printing in white cement		2.54
L0086	Deduction for Gur and Belgri		2.54
L0088	Applying steel primer		2.54
L0089	Carriage, fixing charges		2.54
L0091	Painting brushes, tarpentine, utensils etc.		2.54
L0093	Sundries and scaffolding		2.54
L0095	Sundries and Labour		2.54
L0096	Carriage of WP Materials and Labour		2.54
L0097	Sundries and carriage		2.54
L0098	Carriage, including cement and sand		2.54
L0099	Morter for fixing Costs		2.54
L0100	Labour for beating lime concrete		2.54
L0101	Raking out joint		2.54
L0102	Extra for delay and Sundries		2.54
L0103	Carriage of marble slab, Tiles etc		2.54
L0104	Mortar for pointing in white cement etc.		2.54
L0105	Sundries like rawl plug scaffolding etc		2.54
L0106	Painting of brackets etc.		2.54
L0107	Carriage to site		2.54
L0108	Placing at terrace		2.54
L0109	Welding of stainless steel section		2.54
L0110	Curvaturing, grinding, finishing, buffing		2.54
L0111	Sundries for making good wall and floors		2.54
L0112	Sundries Blades, moulding and edge polishing		2.54
L0113	Sundries apoxy resin & cutting machine etc.		2.54

CARRIAGE OF MATERIALS

For analysis refer APSR 2021 (Road & Bridges)

Item No.	Descriptions	Unit	Rate
1	FOR PLAIN ROADS		
1.1	Loading and unloading of stone boulder / stone aggregates / sand / kanker / moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)	cum	179.00
1.2	Loading and Unloading of Boulders by Manual Means	cum	213.00
1.3	Loading and Unloading of Cement or Steel by Manual Means and stacking.	tonne	264.00
1.4	Cost of Haulage Excluding Loading and Unloading		
(i)	Surfaced Road	tonne.km	7.40
(ii)	Unsurfaced Gravelled Road	tonne.km	8.80
(iii)	Katcha Track and Track in river bed / nallah bed and choe bed.	tonne.km	17.80
1.5	FOR HILL ROADS		
	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kanker/Moorum / Lime / Shingle / Earth / Excavated Rock and Kerb Stone for hill roads. Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip.	cum	179.00
1.6	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kanker/Moorum / Lime / Shingle / Earth / Excavated Rock and Kerb Stones by Manual Means for hill roads.	cum	214.00
1.7	Loading and Unloading of Cement / Steel / Structural Steel / RC Pipe / Wooden Logs / Bricks / Bitumen and Timber etc, by Manual Means and Stacking for hill roads.	tonne	264.00
1.8	Cost of Haulage Excluding Loading and Unloading on hill roads. Haulage of materials by tipper excluding cost of loading, unloading and stacking.		
(i)	Surfaced Road	tonne.km	10.50
(ii)	Unsurfaced Graveled Road	tonne.km	12.70
(iii)	Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.	tonne.km	25.50
1.9	Cost of Haulage of Bitumen Excluding Loading and Unloading on hill roads. Haulage of materials by truck excluding cost of loading, unloading and stacking.		
(i)	Surfaced Road	tonne.km	12.10
(ii)	Unsurfaced Graveled Road	tonne.km	14.60
(iii)	Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.	tonne.km	29.30

JUNGLE CLEARANCE

For analysis refer APSR 2021 (Road & Bridges)

Item No.	Descriptions	Unit	Rate
1.1	Cutting of Trees, including Cutting of Trunks, Branches and Removal (Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a lead of 1000 mtrs and earth filling in the depression/pit.)		
(i)	Girth from 300 mm to 600 mm	each	329.00
(ii)	Girth from 600 mm to 900 mm	each	597.00
(iii)	Girth from 900 mm to 1800 mm	each	1,148.00
2.1	Clearing Grass and Removal of Rubbish	hectare	22,185.00
2.2	Clearing and Grubbing Road Land .(Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.)		
(i)	By Manual Means:-		
A	In area of light jungle	hectare	67,206.00
B	In area of thorny jungle	hectare	90,042.00
(ii)	By Mechanical Means		
A	In area of light jungle	hectare	60,423.00
B	In area of thorny jungle	hectare	73,235.00

1. Temporary Item

Sl. No.	Description	Unit	Rate
ITEMS USED FOR SUB HEAD: MISCELLANEOUS			
1.	a) Mild steel reinforcement for RCC work	Quintal	8871.70
	b) 6 mm thick top layer with marble chips	Sqm	549.10
	c) 6 mm cement plaster 1 : 2 (1 cement : 2 fine sand)	Sqm	144.10
	d) Applying Coal tarring, two coats on new wood work	Sqm	44.70
	e) Second class brick work in cement mortar 1 : 6 (1 cement : 6 coarse sand)	Cum	6543.90
2.	Painting on brick flooring with cement mortar 1 : 2 (1 cement : 2 fine sand)		
	a) Flush painting	Sqm	88.10
ITEMS USED FOR SUB HEAD: CONCRETE WORK			
3.	6 mm cement plaster 1 : 3 (1 cement : 3 fine sand)	Sqm	130.80
4.	a) Cement concrete 1 : 1 : 2 (1 cement : 1 coarse sand : 2 stone aggregate mm nominal size).	20 Cum	10104.00
	b) Providing and fitting in position blown bitumen in expansion joints.	Cm depth per cm width per 100 mtr length	872.60
	c) Centring and shuttering including strutting, propping (for chajjas) etc.	Sqm	742.70
	d) Extra labour for RCC work	Cum	174.70
ITEMS USED FOR SUB HEAD: WOOD WORK			
5.	a) Wooden plugs including cutting brick work and fixing in cement mortar.	Each	10.60
	b) Applying priming coat with ready mixed primer of approved brand and manufacture on wood work complete.	Sqm	35.90
ITEMS USED FOR SUB HEAD: STEEL WORK			
6.	a) Applying priming coat with ready mixed red lead paint of approved brand and manufacture on steel work.	Sqm	33.40
	b) Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel, galvanized iron/steel works.	Sqm	30.50

1. Temporary Item

Sl. No.	Description	Unit	Rate
ITEMS USED FOR SUB HEAD: DRAINAGE			
7	Second class brick edging with full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead up to 50 m.	Mtr	157.10
ITEMS USED FOR SUB HEAD: SANITARY INSTALLATIONS			
8.	a) Providing 2nd class 50 x 50 x 50 mm Indian teak wood plugs including cutting brick work and fixing in cement mortar 1 : 3 (1 cement : 3 fine sand).	Each	16.10
	b) Painting two or more coats (excluding priming coat) with ordinary ready mixed paint of approved brand and manufacture in all shades except white or green on new work to give an even shade.	Sqm	75.40
	c) Painting CI cistern with bitumastic or any other anti-corrosive paint inside and white paint over a coat of ready mixed primer on the outside surface of the cistern, flush, pipe, other fittings etc. complete for new work.	Each	499.60
ITEMS USED FOR SUB HEAD: STONE WORK			
9.	a) Pre-cast cement concrete blocks of size 40 x 40 x 10 cm	Each	88.30
ITEMS USED FOR SUB HEAD: WALLING			
10.	Mud plastering	Sqm	59.80
ITEMS USED FOR SUB HEAD: S.P.T. AND TEMPORARY BRIDGES AND CULVERTS			
11.	a) Lettering with black enamel paint of approved quality and manufacture.	Per letter per Cm Ht.	2.40
	b) Brick flooring with best quality brick in cement mortar 1 : 4	Sqm	932.50
	c) Providing and laying cement concrete 1 : 2 : 4 with jhama aggregate.	Cum	6864.00

2. Earth Work

Sl. No.	Description	Unit	Rate
1	Earth work in excavation in all kinds of soil (excluding soil containing 50% or more of shingle or small size boulders upto 30 cm size, saturated soil and rock) including banking in 20 cm layers and breaking clods, ramming and dressing up for the purpose of making embankments or filling up ground depressions, lead upto 50 m and lift upto 1.50 m.	Cum	139.00
2	Earth work in excavation in soils containing 50% or more of shingle or small size boulders upto 30 cm size including banking in 20 cm layers and breaking clods, ramming and dressing up for the purpose of making embankments or filling up ground depressions lead upto 50 m and lift upto 1.50 m.	Cum	180.20
3	Earth work in excavation in foundation and trenches etc. in all kinds of soil (excluding soil containing 50% or more of shingle or small size boulders upto 30 cm size, saturated soil and rock), lift upto 1.50 m and stacking the excavated soil not more than 3 m clear from the edge of the excavation and returning the stacked soil in 15 cm layers, when required, into plinth sides of foundation etc consolidating each deposited layer by ramming and watering and then disposing of all surplus soil as directed within a lead of 50m.	Cum	240.60
4	Earth work in excavation in foundation and trenches in soils containing 50% or more of shingle or small size boulders upto 30 cm size, lift upto 1.50 m and stacking the excavated soil not more than 3 m clear from the edge of the excavation and returning the stacked soil in 15 cm layers when required, into plinth, sides of foundation etc consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated soil as directed within a lead of 50m.	Cum	281.80
5	Extra for lead of 50 m or part thereof for earth work in all soils including shingles, small size boulders upto 30 cm size and saturated soil.	Cum	23.00
6	Extra for every additional lift of 1.50 m or part thereof for earth work in all soils including shingles, small size boulders upto 30 cm size but excluding saturated soil and rock.	Cum	15.50
7	Excavation in decomposed or soft rock with or without blasting in foundations, trenches and drains and disposal of the same, lead upto 50 m, and lift upto 1.50 m.	Cum	563.50
8	Excavation in decomposed or soft rock with or without blasting including disposal of the same lead upto 50 m and lift upto 1.50 m.	Cum	505.20
9	Extra for every additional lift or 1.50 m or part thereof for decomposed soft or hard rock.	Cum	27.50
10	Extra for lead of 50 m or part thereof for decomposed soft or hard rock.	Cum	27.50
11	Removing mixed earth or rock slips including clearing the site within a lead of 50 m and upto 1.50 m lift.	Cum	272.70
12	Re-filling excavated earth in foundations and plinth etc. in 15 cm layer including ramming and watering etc. complete.	Cum	128.00
13	Earth work in excavation in saturated soil upto a depth of 61 cm including pumping or bailing out water and disposing of excavated soil, lead upto 50 m and lift upto 1.50 m.	Cum	439.90
14	Earth work in excavation in saturated soil upto a depth of 61 cm including pumping or bailing out water and banking in 20 cm layers for the purpose of making embankments or filling up ground depressions, lead upto 50 m and lift upto 1.50 m.	Cum	482.90
15	Extra for every additional lift of 1.50 m or part thereof for saturated soil.	Cum	20.60

2. Earth Work

Sl. No.	Description	Unit	Rate
16	Excavation in hard shale and disposal of the same, lead upto 50 m, and lift upto 1.50 m.	Cum	210.70
17	Excavation in hard rock by blasting including stacking of serviceable materials and disposal of unserviceable materials lead upto 50 m and lift upto 1.50 m.	Cum	722.20
18	Excavation in hard rock by blasting to the required cross section at places where it is not possible to salvage the excavated material including clearing the surface.	Cum	660.90
Note: This item is to be operated only where it is certified by the Executive Engineer that due to peculiar condition of the site, no blasted material can be economically salvaged and stacked.			
19	Excavation in hard rock by chiselling including stacking of serviceable material and disposal of unserviceable material lead upto 50 m and lift upto 1.50 m.	Cum	1,153.60
Note: 1) This item of excavation in hard rock by chiselling is to be operated in trenches where blasting operation cannot be done due to peculiar site conditions. For execution of this item the written permission of Supdt. Engineer shall have to be obtained.			
2) The rate for above item will cover for excavation in hard rock in trenches and drains also.			
20	Excavation in hard rock by chiselling to the required cross section at places where it is not possible to salvage the excavated material including clearing the site.	Cum	1,099.20
Note: 1) This item of excavation in hard rock by chiselling is to be operated in trenches where blasting operation cannot be done due to peculiar site conditions. For execution of this item the written permission of Supdt. Engineer shall have to be obtained.			
2) This item is to be operated only where it is certified by the Executive Engineer that due to the peculiar condition of the site no chiselled material can be economically salvaged and stacked.			
21	Collecting, sorting and stacking blasted or hand broken hard rock in measurable stack at site of work as directed the Engineer-in-Charge within a lead of 50 m and lift upto 1.50 m. (Payment to be made from stacked measurements after deducting 50% for voids).	Cum	137.70
22	Filling in plinth with sand under floors including watering, ramming, consolidating and dressing complete.	Cum	846.30
23	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers and rolling every 3rd and top most layer with power roller of minimum 8 tonne and dressing up in embankment for road, flood banks, marginal banks and guide banks or filling up ground depressions lead upto 50 m and lift upto 1.50 m.		
	a) Ordinary Soil	Cum	161.80
	b) Hard Soil	Cum	203.10
24	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.50 m in width as well as 10 Sq.m. on plan including disposal of excavated earth lead upto 50 m and lift upto 1.50 m. Disposed soil to be levelled and neatly dressed.		
	a) Ordinary Soil	Sqm	20.00
	b) Hard Soil	Sqm	27.30

2. Earth Work

SI. No.	Description	Unit	Rate
25	Surface dressing of the ground, including removing vegetation and inequalities not exceeding 15 cm depth and disposal of rubbish, lead upto 50 m and lift upto 1.50 m.		
	b) Hard Soil	Sqm	14.80
26	Earth work in excavation in foundation trenches not exceeding 1.50 m width or 10 Sq.m. on plan or drains not exceeding 1.50 m in width or 10 Sq.m. on plan including dressing of sides and ramming of bottoms, lift upto 1.50 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.		
	a) Ordinary Soil	Cum	143.00
	b) Hard Soil	Cum	183.10
	c) Hard Shale and or Dhunda Soil	Cum	333.90
27	Excavation in foundation trenches not exceeding 1.50 m width or 10 Sq.m. on plan or drains not exceeding 1.50 m in width or 10 Sq.m. on plan including dressing of sides and ramming of bottoms, lift upto 1.50 m including getting out the excavated soil as directed, within a lead of 50 m.		
	a) Ordinary Rock	Cum	622.70
	b) Hard Rock requiring blasting	Cum	932.10
	c) Hard Rock requiring chiselling (where blasting is prohibited)	Cum	1,242.70
28	Ploughing the existing ground to depth of 15 cm to 25 cm and watering the same.		
	a) Ordinary Soil	Sqm	9.70
	b) Hard Soil	Sqm	15.60
29	Banking excavated earth in layers not exceeding 20 cm in depth breaking clods, watering, rolling each layer 1/2 tonne roller or wooden or steel rammers and rolling every 3rd and topmost layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide bunds etc. lead upto 50 m and lift upto 1.50 m.		
	a) Ordinary Soil	Cum	104.80
	b) Hard Soil	Cum	126.00
30	Pumping out water caused by springs, tidal or river seepage, broken water mains, drains or the like.	K.Ltr	84.30
31	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	114.10

3. Mortar

Sl. No.	Description	Unit	Rate
1	Cement mortar 1 : 1 (1 cement : 1 fine sand)	Cum	9971.40
2	Cement mortar 1 : 2 (1 cement : 2 fine sand)	Cum	7036.00
3	Cement mortar 1 : 3 (1 cement : 3 fine sand)	Cum	5569.00
4	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	4392.00
5	Cement mortar 1 : 5 (1 cement : 5 fine sand)	Cum	3758.20
6	Cement mortar 1 : 6 (1 cement : 6 fine sand)	Cum	3215.00
7	Lime mortar 1 : 2 (1 lime putty : 2 surkhi)	Cum	5121.50
8	Mud mortar	Cum	417.70
9	Lime mortar 1 : 1 : 1 (1 lime putty : 1 surkhi : 1 fine sand)	Cum	5008.00
10	Cement mortar 1 : 2 (1 cement : 2 coarse sand)	Cum	7036.00
11	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	Cum	5569.00
12	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Cum	4392.00
13	Cement mortar 1 : 5 (1 cement : 5 coarse sand)	Cum	3758.20
14	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Cum	3215.00
15	Cement mortar 1 : 2 (1 white cement : 2 marble dust)	Cum	31223.20
16	Lime mortar 1 : 1 : 1 (1 lime : 1 surkhi : 1 coarse sand)	Cum	5008.00

4. Concrete Work

Sl. No.	Description	Unit	Rate
1	Providing and laying in foundations and plinth cement concrete 1 : 5 : 10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) excluding the cost of centring and shuttering.	Cum	4300.70
2	Providing and laying in foundations and plinth cement concrete 1 : 4 : 8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) excluding the cost of centring and shuttering.	Cum	4759.90
3	Deduct rate for concrete for using 50 mm nominal size stone aggregate instead of 40 mm nominal size stone aggregate.	Cum	45.60
4	Providing and laying cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) excluding the cost of centring and shuttering in :		
	a) Foundations and plinth	Cum	5328.80
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	5402.90
	c) Independent piers, columns and pillars up to floor two level.	Cum	5426.30
5	Providing and laying cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) excluding the cost of centring and shuttering in :		
	a) Foundations and plinth	Cum	6448.80
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	6522.80
	c) Independent piers, columns and pillars up to floor two level.	Cum	6546.20
6	Providing and laying cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) excluding the cost of centring and shuttering in :		
	a) Foundations and plinth	Cum	5810.20
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	5884.30
	c) Independent piers, columns and pillars up to floor two level.	Cum	5907.60
7	Providing and laying cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) excluding the cost of centring and shuttering in :		
	a) Foundations and plinth	Cum	6817.40
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	6891.50
	c) Independent piers, columns and pillars up to floor two level.	Cum	6914.90
8	Providing and laying cement concrete 1 : 1.5 : 3 (1 cement : 1.50 coarse sand : 3 stone aggregate 20 mm nominal size) excluding the cost of centring and shuttering in :		
	a) Foundations and plinth	Cum	7635.50
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	7709.60
	c) Independent piers, columns and pillars up to floor two level.	Cum	7732.90

4. Concrete Work

Sl. No.	Description	Unit	Rate
9	Centring and shuttering including strutting propping etc. and removal of form work for:		
	a) Foundations and plinth.	Sqm	348.50
	b) Walls including attached buttresses, pilasters etc.	Sqm	474.80
	c) Columns, pillars and piers.	Sqm	585.20
	Since in item Nos, 9(a) to (c), the material can be used 8 times, the quantity is taken as 1/8th of required quantity.		
10	Providing and laying up to floor two level cement 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) including centring shuttering in :		
	a) Kerbs, steps and the like.	Cum	10032.90
Note: Work at or near ground level.			
	b) String courses, copings, bed plates, anchor blocks, plain window sills and the like.	Cum	11891.70
Note: Work involving hoisting or lowering.			
	c) Small lintels not exceeding 1.50 m clear span over railing copings and the like requiring form work to suspended portions.	Cum	12189.40
	d) Mouldings as in cornices, windows sills etc. exceeding 15 cm in girth.	Cum	13079.70
	e) Mouldings as in cornices, windows sills etc. not exceeding 15 cm in girth.	Cum	13169.70
11	Providing and laying up to two floor level cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including centring and shuttering etc. in :		
	a) Kerbs, steps and the like.	Cum	9025.70
	b) String courses, copings, bed plates, anchor blocks, plain window sills and the like.	Cum	10884.50
	c) Small lintels not exceeding 1.50 m clear span over railing copings and the like requiring form work to suspended portions.	Cum	11182.20
	d) Mouldings as in cornices, windows sills etc. exceeding 15 cm in girth.	Cum	12072.50
	e) Mouldings as in cornices, windows sills etc. not exceeding 15 cm in girth.	Cum	12162.50
12	Providing and fixing up to floor two level precast cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) set in position with cement mortar 1 : 2 (1 cement : 2 coarse sand) and finished smooth with 6 mm thick cement plaster 1 : 3 (1 cement : 3 fine sand) on exposed surfaces including centring and shuttering in :		
	a) Kerbs, steps and the like.	Cum	12459.10
	b) String courses, copings, bed plates, anchor blocks, plain window sills and the like.	Cum	13333.70
	c) Small lintels not exceeding 1.50 m clear span over railing copings and the like requiring form work to suspended portions.	Cum	12566.50
	d) Mouldings as in cornices, window sills etc. exceeding 15 cm in girth.	Cum	14569.60
	e) Mouldings as in cornices, window sills etc. not exceeding 15 cm in girth.	Cum	14659.60

4. Concrete Work

Sl. No.	Description	Unit	Rate
13	Providing and fixing up to floor two level precast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) set in position with cement mortar 1 : 2 (1 cement : 2 coarse sand) and finished smooth with 6 mm thick cement plaster 1 : 3 (1 cement : 3 fine sand) on exposed surfaces including centring and shuttering in : a) Kerbs, steps and the like. b) String courses, copings, bed plates, anchor blocks, plain window sills and the like. c) Small lintels not exceeding 1.50 m clear span over railing copings and the like requiring form work to suspended portions. d) Mouldings as in cornices, window sills etc. exceeding 15 cm in girth. e) Mouldings as in cornices, window sills etc. not exceeding 15 cm in girth.	Cum	11451.90
14	Providing and laying in foundation mud concrete with graded stone aggregate 40 mm nominal size and 40% mud mortar excluding the cost of centring and shuttering.	Cum	2448.10
15	Extra rate for concrete for using 12.50 mm (nominal size) stone aggregate, instead of 20 mm nominal size stone aggregate.	Cum	93.90
16	Extra rate for concrete for using 10 mm (nominal size) stone aggregate, instead of 20 mm nominal size stone aggregate.	Cum	187.10
17	Extra (over rates up to first floor level) for all concrete above first floor level.		1%
Note: 1% of the rate of concrete work from plinth to first floor level.			
18	Providing and laying damp proof course 50 mm thick with cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size).	Sqm	382.10
19	Providing and laying damp proof course 38 mm thick with cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 12.5 mm nominal size).	Sqm	300.30
20	Providing and laying damp proof course 25 mm thick with cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm nominal size).	Sqm	276.90
21	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by manufacturers.	Per bag of 50 Kg of cement used in the mix	249.00
22	Applying a coat of hot bitumen (mashphalte 80/100 or equivalent) using 1.70 Kg per Sq.m. on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	225.90
23	Deduct rate for cement concrete 1 : 3 : 6 with 20mm (nominal size) stone aggregate using 20 mm (nominal size) brick aggregate instead of 20 mm nominal size stone aggregate.	Cum	50.40
24	Extra for laying concrete in or under foul position.	Cum	202.20
Note: Extra for labour due to slow progress			
25	Extra for laying concrete in or under water and or liquid mud including cost of pumping and bailing out water and removing of slush etc. complete.	Per Cum per m depth	404.40
Note: The quantity will be calculated by multiplying the depth of the bottom of concrete below sub soil water level with quantity of concrete in Cu.m. for the same depth. The depth of concrete below sub soil water level shall be measured correct to 0.10 m, 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored. In case of varying depths (of bottom of concrete) respective depth shall be multiplied with corresponding quantities of concrete.			

5. RCC Work

Sl. No.	Description	Unit	Rate
1	Reinforced concrete work in foundations, footings, bases of columns etc. and mass concrete excluding cost of centring, shuttering and reinforcement in : a) M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	7810.20
2	Reinforced cement concrete in walls (any thickness) including attached pillasters, buttresses, plinth and string course, fillets etc from top of foundation up to floor two level including finishing and plastering the exposed surfaces with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface excluding cost of centring, shuttering and reinforcement in : a) M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size)	Cum	8617.20
3	Reinforced cement concrete in retaining wall (any thickness) including attached pillasters, buttresses, plinth and string courses, fillets etc from top of foundation up to floor two level excluding cost of centring, shuttering and reinforcement in : a) M20 (1 cement : 1.5 Coarse Sand : 3 stone aggregate 20 mm nominal size). b) M20 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size).	Cum Cum	7884.30 7066.20
Note: In case of structures like retaining wall etc., height of 4m above ground level will be reckoned as first floor level.			
4	Reinforced cement concrete in suspended floors, roofs, landings and balconies upto floor two level including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding cost of centring and shuttering and reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	9084.60
5	Reinforced cement concrete in chajjas exceeding 15mm in thickness upto floor two level including centring and shuttering complete but excluding the cost of reinforcement with M20 (1 cement: 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	12083.60
6	Reinforced cement concrete work in lintels, beams and bresumers up to floor two level including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding cost of centering, shuttering and reinforcement. a) M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	8966.00
7	Reinforcement cement concrete work in columns, pillars, piers, abutments, post and struts etc up to floor two level including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding cost of centring, shuttering and reinforcement. a) M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	9063.40
8	Reinforced cement concrete work in stair cases (excluding landing) except spiral cases including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface, preparing of the top surface and finishing, nosing upto floor two level but excluding the cost of centring, shuttering and reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	10051.90

Note : Labour for finishing the treads, risers and nosing and extra lift.

5. RCC Work

Sl. No.	Description	Unit	Rate
10	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers bands and facias up to floor two level including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding the 6 mm to give a smooth and even surface but excluding the cost of centering, shuttering and reinforcement with M20 (1 cement : 1.5 fine sand : 3 stone aggregate 12.5 mm nominal size).	Cum	13628.50
Note : Extra Labour for lifting and restricted working in fins.			
11	Reinforced cement concrete work in shelves up to floor two level excluding cost of centering and shuttering and reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	7810.20
12	Centring and shuttering including strutting, propping etc and removal of form work for :		
	a) Foundation, footings, bases of columns etc. and mass concrete.	Sqm	348.50
	b) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	474.80
	c) Suspended floors, roofs, landings shelves and their supports, balconies and chajjas (3.5 m height).	Sqm	726.30
Note: Timber used 8 times			
	d) Lintels, beams, girders, bressumers and cantilevers etc.	Sqm	459.10
Note: Timber used 8 times			
	e) Column, pillars, posts and struts etc.	Sqm	585.20
	f) Stairs (excluding landings) except spiral stair cases.	Sqm	481.00
Note: Timber used 8 times			
	g) Vertical and horizontal fins individually or forming box louvers bands and facias.	Sqm	684.70
Note: Timber used 8 times			
13	Extra for shuttering in circular work.		20%
Note: 20% of the rate of respective item of centring and shuttering.			
14	Providing and laying up to floor two level reinforced cement concrete in kerbs, steps and the like including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give smooth and even surface including centring and shuttering etc but excluding cost of reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	11297.20
15	Providing and laying up to floor two level RCC string courses, coping bed plates, anchor blocks, plain window sills and the like including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface including centering and shuttering etc but excluding cost of reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	14246.40
16	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete in shelves including finishing and plastering with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm on exposed surfaces to give a smooth and even surface including shuttering etc but excluding cost of reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 12.50 mm nominal size).	Cum	38876.20

5. RCC Work

Sl. No.	Description	Unit	Rate
17	Providing, hoisting and fixing up to floor two level pre-cast reinforced cement concrete in vertical and horizontal fins individually or forming box louvers and bands including finishing and plastering with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm on exposed surface to give a smooth and even surface, centering and shuttering and shetting in position with cement mortar 1 : 2 (1 cement : 2 fine sand) etc but excluding cost of reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	16282.10
18	Providing precast cement concrete jali M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size) reinforced with 1.6 mm dia mild steel wire including, roughening, cleaning, fixing and finishing in cement mortar 1 : 3 (1 cement : 3 fine sand) etc complete upto floor two level excluding plastering of the jams, sills and soffits.		
	a) 50 mm thick	Sqm	978.50
	b) 40 mm thick	Sqm	708.60
	c) 25 mm thick	Sqm	666.30
19	Reinforcement of RCC work including bending, binding and placing in position complete.		
	a) Mild steel	Kg	88.60
	b) Tar/TMT steel	Kg	88.60
20	Extra for all RCC work above floor two level excluding cost of reinforcement.	Per floor per Cum	1%
21	Deduct for omitting RCC work smooth finishing of the exposed surfaces with 6 mm cement mortar 1:3 (1 cement : 3 fine sand).	Sqm	130.80
22	Providing and fixing in position copper plate 1.6 mm thick as per design for expansion joints (3 m length, 250 mm width, 1.6 mm thick).	Kg	1349.10
23	Providing reinforced cement concrete eaves board 25 mm thick and 15 cm to 30 cm wide in 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 stone aggregate 10 mm nominal size) up to floor two level including finishing and plastering with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm on exposed surfaces to give smooth and even surface, centring and shuttering but excluding cost of reinforcement.	Cum	63422.20
24	Providing and filling in position bitumen mix filler of proportion 80 Kg of hot bitumen 1 Kg of cement and 0.25 Cu.m. of coarse sand for expansion joints.	Cm depth per cm width per 100 m	260.90
25	Providing and filling in position blown bitumen in expansion joints.	Cm depth per cm width per 100 m	882.80
26	Providing and fixing 6 mm thick 15 cm wide asbestos sheet covering over expansion joints as per design.	Mtr	112.20
27	Extra for laying Reinforced Cement Concrete in or under water and or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	Cum per mtr depth	404.40
<p>Note: The quantity will be calculated by multiplying the depth of the bottom of RCC concrete below sub soil water level with quantity of RCC in cum for the same depth. The depth of RCC below sub soil water level shall be measured correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored. In case of varying depths (of bottom of RCC), respective depths shall be multiplied with corresponding quantities of RC concrete.</p>			

5. RCC Work

Sl. No.	Description	Unit	Rate
28	Extra for laying Reinforced Cement Concrete in or under foul position.	Cum per mtr depth	202.20
29	Reinforced cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal gauge) including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding the cost of centring, shuttering and reinforcement in :		
	a) Spiral staircases including landings etc. up to floor two level.	Cum	13266.80
	b) Arches up to floor two level.	Cum	8574.10
	c) Domes, vaults and shell roofs up to floor two level.	Cum	8710.70
	d) Chimneys and shafts up to floor two level.	Cum	8684.70
30	Centring and shuttering including strutting, propping etc. and removal of form work for:		
Note : Assuming timber will become unserviceable after being used 8 times.			
	a) Spiral staircases including landings.	Sqm	472.90
	b) Arches up to 6 mtr span	Sqm	1301.60
	c) Domes, vaults and shell roofs.	Sqm	3439.20
	d) Chimneys and shafts.	Sqm	474.80
31	Extra rate for Reinforced Cement Concrete for using 12.5 mm nominal gauge stone aggregate instead of 20 mm nominal gauge stone aggregate.	Cum	95.60
32	Encasing rolled steel sections in beams and columns, with cement concrete 1 : 2 : 4 (1 cement : 2 river sand : 4 stone aggregate 12.50 mm nominal gauge) including finishing and plastering with cement mortar 1 : 3 (1 Cement : 3 river Sand) of thickness not exceeding 6 mm on the exposed surfaces to give a smooth and even surface upto floor two level including centring and shuttering complete but excluding cost of reinforcement.	Cum	13643.90
33	Encasing rolled steel sections in grillages with cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 12.5 mm nominal size) up to first floor level including centring and shuttering but excluding cost of expanded metal and hangers.	Cum	8432.30
34	Extra for providing and fixing expanded metal mesh of size 20 x 60 mm and strands 3 mm wide 1.60 mm thick weighing 3.464 Kg per Sq.m. for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.	Cum	493.80
35	Extra for all RCC work above floor two level excluding cost of reinforcement.	Per floor per Cum	1%
Note : (1% of the rate of RCC work from plinth level to first floor level).			
36	Extra for rendering smooth the top of the suspended floors, landings and stair cases (treads and risers) with cement mortar 1 : 2 (1 cement : 2 coarse sand) including a floating coat of neat cement and protecting the surface with a layer of 7.50 cm of earth laid over 15 mm of fine sand in case of suspended floors and bricks laid in mud mortar in case of landings and steps including subsequent removal and cleaning of the same.	Sqm	95.00
37	Applying cement slurry on RCC slabs or cement concrete work using 2.75 Kg of cement per Sq.m. for receiving cement concrete floor including roughening, cleaning etc complete.	Sqm	42.40

5. RCC Work

Sl. No.	Description	Unit	Rate
38	Providing and fixing in position 12 mm thick impregnated fibre board in expansion joints.	Per cm depth per 100 mtr	883.50
39	Providing and fixing in position GI sheet 24, BG as per design for expansion joints (3 m long, 250 mm width).	Sqm	279.20
40	Provision for ' Cold- Weather Concreting' (Concrete to be placed safely without damage from freezing throughout the winter months in cold climates when for more than 3 successive days the average daily temperature drops below 5°C and stays below 10° C for more than one half of any 24 hour period)		
(i)	Add extra for cost of additional Portland cement @ 60 to 120 kg per'cum' of cement Concrete as per the direction of the Engineer in charge and as per the discretion of the designer's decision for required 'Heat Hydration' using mix desing with particular water cement ratio, dimension of the concrete placment, ambiant air temperature, initail concrete temperature, admixtures and the composition. Mass Concreting by desing mix (maximum cment content to be 400 kg per Cum of concrete (OR)	Cum	20%
(ii)	Add extra for cost of Chloride free Hardening accelerator at the rate of 0.20% to 5% by weight of cement, low water-cement ration, low-slum concrete as per site climate and as per the direction of the Engineer in charge (the dosage of Chloride free accelerator should be as specified by the manufacturer and as per the discretion of the desinger's decision) PCC/RCC Concreting by design mix (OR)	Cum	7%
(iii)	Add extra for cost of heating the water or aggregates or sand or combination of all except cement to attain the temperature of concrete to be poured between 7° C to 21° C as per the direction of the Engineer in charge (the temperature of concrete poured should be controlled to eliminate possibility of thermal shirnkage or plastic shrinkage and cracking by design mix according to size of concrete members, climate conditions) PCC/RCC Concreting by design mix (OR)	Cum	15%
(iv)	Add extra for cost of concreting on grounds or floors by thawing the surface before placing the concrete with suitable temperture and maintaining the temperature upto the extent of curing period by covering with insulated blankets and thawing if necessary as per the discretion of the designer and as per the direction of the Engineer incharge. PCC/RCC Concreting by design mix (OR)	Cum	12%
(v)	Add extra for cost of concreting on closed conditions by providing and fixing insulated tarpaulin all around with vented heater arrangement to maintain the required temperature to avoid freezing while mixing/pouring, till initial setting time and upto curing period whichever is desirabe as per the discretion of the designer and as per the direction of the Engineer incharge (a small potion of Building or Bridge sites as selected to minimise the installation of insulated covering and vented heater arrangement repetively at every stage of work). For Insulated convering and vented heating arrangement upto time period required as directed by Engineer incharge (this item can be combination with any of the concreting methods specified in item 6.4(i) or (ii) or (iii) or (iv) and combination of any as per the designer's discretion (record to be maintained for temperature of concrete poured to till curing period climate condition. The test result for the concrete at required intervals are to be made available and maintained as per desinged requirements).	Cum	25%

6. Brick Work

Sl. No.	Description	Unit	Rate
1	Brick work with best available local bricks in foundation and plinth in cement mortar 1:3 (1 cement : 3 fine sand).	Cum	8474.10
2	Brick work with best available local bricks in foundations and plinth in cement mortar 1:4 (1 cement : 4 fine sand).	Cum	8148.70
3	Brick work with best available local bricks in foundations and plinth in cement mortar 1:5 (1 cement : 5 fine sand).	Cum	7973.40
4	Brick work with best available local bricks in foundations and plinth in cement mortar 1:6 (1 cement : 6 fine sand).	Cum	7823.30
5	Extra for brick work with best available local bricks in superstructure above plinth level up to floor two level.	Cum	212.80
6	Extra for brick work in superstructure above floor two level, per floor per Cu.m. (1% of rate of brickwork from plinth up to floor two level).	Per floor per Cum	1%
7	Deduct for using 2nd class bricks instead of 1st class, in plain brick work.	Cum	341.20
8	Extra for brick work in square or rectangular pillars.	Cum	347.50
9	Extra for using best available local bricks in circular pillar.	Cum	2569.70
10	Extra for making tapered surface of brick masonry.	Sqm	440.90
11	Half brick masonry (with best available local bricks) in cement mortar 1:3 (1 cement : 3 coarse sand) in foundation and plinth.	Sqm	1026.00
12	Half brick masonry (with best available local bricks) in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation and plinth.	Sqm	989.00
13	Extra for half brick masonry in superstructure above plinth level and up to floor two level.	Sqm	39.10
14	Extra for half brick masonry in superstructure above floor two level.	Per floor per Sqm	1%
Note : (1% of rate of half brickwork from plinth up to floor two level)			
15	Providing hoop iron 25 mm x 1.60 mm or equivalent reinforcement in brick masonry at every fourth course, embedded in cement mortar.	Per floor per Cum	151.00
16	Brick work with best available local bricks 75 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand).	Sqm	703.20
17	Extra for cutting or chamfering of bricks to required shape in masonry work.	Mtr	15.70
18	Best quality local brick honey-comb half brick work in cement mortar 1:4 (1 cement : 4 fine sand).	Sqm	695.50
19	2nd quality local brick honey-comb half brick work in cement mortar 1:4 (1 cement : 4 fine sand).	Sqm	639.40

6. Brick Work

Sl. No.	Description	Unit	Rate
20	Best quality local brick honey-comb half brick work in cement mortar 1:6 (1 cement : 6 fine sand).	Sqm	669.40
21	2nd quality local brick honey-comb half brick work in cement mortar 1:6 (1 cement : 6 fine sand).	Sqm	613.30
22	Extra for laying brick work in or under foul position.	Cum	235.20
23	Joining old brick work with new work.	Sqm	348.00
24	Providing 75 mm thick 1st class brick drip course at junctions of roofs and walls in cement mortar 1:4 (1 cement : 4 fine sand).	Mtr	94.40
25	Providing 1st class brick on edge drip course at junctions of roofs and walls in cement mortar 1:6 (1 cement : 6 fine sand).	Mtr	140.40
26	Providing 75 mm thick 6 cm projected 1st class brick string course in cement mortar 1:4 (1 cement : 4 fine sand).	Mtr	40.10
27	Extra for laying brick work in or under water and or liquid mud including cost of pumping and bailing out water and removing slush etc complete.	Per Cum per Mtr. Depth	404.40

Note: The quantity will be calculated by multiplying the depth of the bottom of brick masonry below sub soil water level with qty. of brick masonry in Cu.m. for the same depth. This depth below sub soil water level shall be measured correct to 0.10 m, 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored. In case of varying depths (of bottom of brick masonry) respective depth shall be multiplied with corresponding quantities of brick masonry.

7. Stone Work

te	Sl. No.	Description	Unit	Rate
369.40	1	Random rubble masonry with hard stone in foundations and plinth in cement mortar 1 : 6 (1 cement : 6 fine sand) including levelling up with cement concrete 1 : 6 : 12 (1 cement : 6 coarse sand : 12 stone aggregate 20 mm nominal size) at plinth level.	Cum	3445.40
313.30	2	Extra for random rubble masonry with hard stone in superstructure above plinth level and up to floor two level including levelling up with cement concrete 1 : 6 : 12 (1 cement : 6 coarse sand : 12 stone aggregate/shingle 20 mm nominal size) at window sills, ceiling level and the like.	Cum	310.90
235.20	3	Extra for random rubble masonry with hard stone in square or rectangular pillars.	Cum	363.20
348.00	4	Extra for random rubble masonry with hard stone in circular pillars.	Cum	978.10
94.40	5	Coursed rubble masonry (first sort) with hard stone in foundations and plinth in cement mortar 1 : 6 (1 cement : 6 fine sand).	Cum	3968.70
140.40	6	Coursed rubble masonry (second sort) with hard stone in foundations and plinth in cement mortar 1 : 6 (1 cement : 6 fine sand).	Cum	3728.90
40.10	7	Extra for coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and up to floor two level.	Cum	279.20
404.40	8	Extra for coursed rubble masonry with hard stone (first or second sort) in square or rectangular pillars.	Cum	403.30
	9	Extra for coursed rubble masonry with hard stone (first or second sort) in circular pillars.	Cum	1111.00
	10	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) blocks in cement mortar 1 : 3 (1 cement : 3 fine sand) in foundations and plinth.	Cum	12924.40
	11	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) blocks in cement mortar 1 : 4 (1 cement : 4 fine sand) in foundations and plinth.	Cum	12687.70
	12	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) blocks in cement mortar 1 : 5 (1 cement : 5 fine sand) in foundations and plinth.	Cum	12560.30
	13	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) blocks in cement mortar 1 : 6 (1 cement : 6 fine sand) in foundations and plinth.	Cum	12451.10
	14	Extra for pre-cast cement concrete block masonry in superstructure above plinth level up to floor two level.	Cum	298.20
	15	Random rubble masonry with hard stone in foundations and plinth in cement mortar 1 : 6 (1 cement : 6 fine sand) including levelling up with cement concrete 1 : 6 : 12 (1 cement : 6 coarse sand : 12 stone shingle 20 mm nominal size) at plinth level.	Cum	3445.40
	16	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone shingle 20 mm nominal size) blocks in cement mortar 1 : 3 (1 cement : 3 fine sand) in foundations and plinth.	Cum	12924.40

7. Stone Work

Sl. No.	Description	Unit	Rate
17	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone shingle 20 mm nominal size) blocks in cement mortar 1 : 4 (1 cement : 4 fine sand) in foundations and plinth.	Cum	12687.70
18	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone shingle 20 mm nominal size) blocks in cement mortar 1 : 5 (1 cement : 5 fine sand) in foundations and plinth.	Cum	12560.30
19	Masonry with pre-cast cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone shingle 20 mm nominal size) blocks in cement mortar 1 : 6 (1 cement : 6 fine sand) in foundations and plinth.	Cum	12451.10

8. Walling

Sl. No.	Description	Unit	Rate
1	Single wattle or split bamboo walling including cement plaster 20 mm thick 1 : 6 (1 cement : 6 fine sand) on either side and white washing three or more coats to give an even shade on both faces complete.	Sqm	588.60
2	25 mm thick wooden plank walling butt jointed with wooden beading 50 x 25 mm including supplying and fixing with necessary nails, screws etc complete.	Sqm	1543.70
3	Providing 24 SWG corrugated GI sheet walling fixed with 150 x 10 mm 'L' or 'J' hooks bolts and nuts etc complete excluding cost of frame work which shall be paid for separately.	Sqm	924.60
4	Providing 24 SWG corrugated GI sheet walling fixed with 150 x 8 mm 'L' or 'J' hooks bolts and nuts etc complete excluding cost of frame work which shall be paid for separately.	Sqm	924.60
5	Providing 22 SWG corrugated GI sheet walling fixed with 150 x 10 mm diameter 'L' or 'J' hooks bolts and nuts etc complete excluding cost of frame work which shall be paid for separately.	Sqm	1050.50
6	Providing 22 SWG corrugated GI sheet walling fixed with 150 x 8 mm 'L' or 'J' hooks bolts and nuts etc complete excluding cost of frame work which shall be paid for separately.	Sqm	1050.50
7	Providing 22 BWG 144 mesh fly proof wire gauge fixed with wooden beading complete (in walls) beading size 75 x 12 mm.	Sqm	434.90
8	Providing and fixing 15 cm x 1.25 cm size plank of approved local wood in weather boarded walling with necessary fittings complete excluding cost of frame work which shall be paid for separately but including planing the planks and fixing the same in inclined position so that the edge of the top plank overlaps the edge of the bottom plank by 50 mm width.	Sqm	1030.00
9	Single wattle or split bamboo walling including fitting, fixing complete (without plaster).	Sqm	140.60
10	Single wattle or split bamboo walling including 20 mm thick mud plaster on either side and white washing 3 or more coats to give an even shade on both faces complete.	Sqm	303.40
11	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps 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 pigment of matching shade complete	Sqm	859.90

9. Wood Work

Sl. No.	Description	Unit	Rate
1	Providing approved best available local wood (Class - B II) work in frames of doors, windows clerestory windows and other frames, wrought framed and fixed in position.	Ten Cudm	490.70
2	Providing best available local wood (Class - B II) work in frames of false ceiling, partitions and trusses etc, sawn and put up in position.	Ten Cudm	461.30
3	Providing and fixing panelled, glazed or panelled and glazed shutters for doors, windows and clerestory windows including aluminium butt hinges with necessary screws.		
	a) 38mm thick best available local wood class - B I	Sqm	3192.10
4	Providing and fixing panelled, glazed or panelled and glazed shutters for doors, windows and clerestory windows including necessary iron butt hinges with necessary screws.		
	a) 38 mm thick best available local wood, class - B I	Sqm	2793.00
5	Providing and fixing 44 mm thick best available local wood Class - B I (19 mm batten and 25 mm bracing) battened and braced doors and windows shutters including providing and fixing necessary bright finished or black enamelled T-hinges, butt hinges, sliding door bolts, tower bolts and handles with necessary bolts and nuts and screws complete.	Sqm	2231.70
6	Providing and fixing 38 mm thick wire gauge shutters using galvanized mild steel wire gauge of IS gauge designation 140G with wire of dia 0.56 mm for doors, windows and clerestory windows including anodized aluminum butt hinges with necessary screws.		
	a) Best available local wood class B-I	Sqm	2714.40
7	Providing and fixing 30 mm thick wire gauge shutters using galvanized mild steel wire gauge of IS gauge designation 85G with wire of dia 0.56 mm for doors, windows and clerestory windows including iron butt hinges with necessary screws.		
	a) Best available local wood class -B I	Sqm	1810.60
8	Providing and fixing 30 mm thick wire gauge shutters using galvanized mild steel wire gauge of IS gauge designation 85G with wire of dia 0.56 mm for doors, windows and clerestory windows including anodized aluminum butt hinges with necessary screws.		
	a) Approved local wood class A-IV	Sqm	2328.60
	b) 2nd class approved local wood class - B I.	Sqm	1987.20
9	Providing and fixing 30 mm thick wire gauge shutters using galvanized mild steel wire gauge of IS gauge designation 140G with wire of dia 0.56 mm for doors, windows and clerestory windows including bright finished or and black enamelled iron wire butt hinges with necessary screws.		
	a) 2nd class approved local wood class - B I.	Sqm	1810.60
	b) Approved local wood class - C.	Sqm	1394.40
10	Providing and fixing best available local wood glazed shutters for doors, windows and clerestory window using 7.5 kg/Sq.m. (3 mm thick glass panes) including black enamelled MS butt hinges with necessary screws.		
	a) 35 mm thick	Sqm	2642.80
	b) 30 mm thick	Sqm	2476.30
11	Providing and fixing flush door shutters, decorative type, core of black board construction with frame of 1st class hard wood and well matched 1st class teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		

9. Wood Work

Sl. No.	Description	Unit	Rate
	a) 40 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	2699.10
	b) 25 mm thick (for cupboard) including nickel plated bright finished MS piano hinges with necessary screws.	Sqm	1972.40
12	Providing and fixing flush door shutters, non-decorative type, core of black board construction with frame of 1st class hard wood and well matched commercial ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		
	a) 40 mm thick including anodized aluminium butt hinges with necessary screws.	Sqm	2418.80
	b) 25 mm thick (for cupboard) including nickel plated bright finished MS piano hinges with necessary screws.	Sqm	1972.40
13	Providing and fixing, fly proof galvanized MS wire gauge of IS gauge designation 85 g with wire of dia 0.56 mm to windows and clerestory windows including 62 x 19 mm beading of best available local wood.	Sqm	547.80
14	Providing and fixing louvers 50 mm wide in groove in clerestory window frames but excluding cost of frames.		
	a) Approved local wood 12 mm thick.	Sqm	1310.60
	b) Asbestos cement sheet 4 mm thick.	Sqm	438.60
	c) Glass sheet of 3 mm thick	Sqm	816.70
15	25mm thick wooden shelves supported on 40 x 40 x 6 mm "T" or "L" iron brackets fixed at suitable distance but not exceeding 75 cm apart in 7.5 x 7.5 x 15 cm block of cement concrete mix 1 : 3 : 6 (1cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) with :		
	a) Approved local wood best available class - B.	Sqm	2413.80
	b) 2nd class approved local wood class - B I.	Sqm	2413.80
16	Providing and fixing MS round or square bars at required spacing in wooden frames of windows and clerestory windows.	Kg	103.60
17	Providing and fixing MS round or square bars with MS flat at required spacing in wooden frames of windows and clerestory windows.	Kg	95.40
18	Providing and fixing 40 x 3 mm flat iron hold fasts 40 cm long including fixing to frame with 10 mm dia bolts, nuts and wooden plugs and embedding in cement concrete block 30 x 10 x 15 cm in 1 : 3 : 6 (1 cement : 3 sand : 6 hard stone chips 40 mm nominal size).	Each	103.90
19	Providing and fixing 2.50 cm thick approved local wood eaves boards 23 cm wide with necessary mouldings etc.	Mtr	369.60
20	Supplying and fixing factory made panelled shutters made out of best available hard wood for doors including panelling with panels 12 mm thick commercial veneered teak wood particle boards (Phenyle Bonded) 3 layers flat pressed including applying one coat of approved wood primer.		
	a) 40 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	3335.10
	b) 35 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	3247.50
	c) 30 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	3208.50
21	Supplying and fixing fully glazed shutters made out of best available hard wood for windows and clerestory windows using 7.50 Kg/Sq.m. 3 mm thick glass panes including applying one coat of approved wood primer.		
	a) 35 mm thick including anodized aluminum butt hinges, with necessary screws.	Sqm	3005.50

9. Wood Work

Sl. No.	Description	Unit	Rate
	b) 30 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	2823.80
22	Providing and fixing MS grills of required pattern in wooden frames of windows etc with MS flat, square or round bars with round headed bolts and nuts or by screws.		
	a) Plain grill.	Kg	135.30
	b) Ornamental grill.	Kg	185.70
	FITTINGS :		
	IRON FITTINGS :		
23	Providing and fixing iron pressed butt hinges bright finished with necessary screws etc complete.		
	a) 125 x 65 x 2.12 mm	Ten Nos.	642.90
	b) 100 x 50 x 1.90 mm	Ten Nos.	332.60
	c) 75 x 47 x 1.70 mm	Ten Nos.	278.50
24	Providing and fixing Iron T-hinges bright finished or and black enamelled with necessary screws etc complete.		
	a) 300 x 115 x 2.24 mm	Ten Nos.	751.70
	b) 250 x 100 x 2.40 mm	Ten Nos.	629.40
25	Providing and fixing MS sliding door bolts, bright finished or and black enamelled with nuts and screws etc complete.		
	a) 300 x 16 mm	Each	293.40
	b) 250 x 16 mm	Each	189.10
26	Providing and fixing MS tower bolts (barrel type) with necessary screws etc complete.		
	a) 250 x 10 mm	Each	93.00
	b) 200 x 10 mm	Each	71.50
	c) 150 x 10 mm	Each	56.90
	d) 100 x 10 mm	Each	56.90
27	Providing and fixing MS door latch with necessary screws etc complete.		
	a) 300 x 20 x 6 mm	Each	154.30
	b) 250 x 20 x 6 mm	Each	134.30
28	Providing and fixing MS handles with necessary screws etc complete.		
	a) 125 mm	Each	34.60
	b) 100 mm	Each	32.30
	c) 75 mm	Each	29.00
29	Providing and fixing MS Hooks and Eyes.		
	a) 300 mm	Each	30.10
	b) 250 mm	Each	27.30
	c) 200 mm	Each	22.30
	d) 150 mm	Each	22.00
	e) 100 mm	Each	20.30

9. Wood Work

SI. No.	Description	Unit	Rate
30	Providing and fixing MS safety hasp and staple with necessary screws etc complete.		
	a) 150 mm	Each	72.40
	b) 115 mm	Each	68.20
	c) 90 mm	Each	64.70
	ALUMINIUM FITTINGS :		
31	Providing and fixing aluminum butt hinges anodised, transparent or dyed to required color or shade with necessary screws etc complete.		
	a) 125 x 75 x 4 mm	Each	134.10
	b) 125 x 63 x 4 mm	Each	126.80
	c) 100 x 75 x 4 mm	Each	114.50
	d) 100 x 63 x 4 mm	Each	112.90
	e) 100 x 63 x 3.2 mm	Each	112.90
	f) 75 x 63 x 4 mm	Each	99.80
	g) 75 x 63 x 3.2 mm	Each	96.90
	h) 75 x 45 x 3.2 mm	Each	83.70
	i) 50 x 45 x 3.2 mm	Each	68.60
32	Providing and fixing aluminum sliding door bolts anodised transparent or dyed to required color or shade with nuts and screws etc complete.		
	a) 300 x 16 mm	Each	279.20
	b) 250 x 16 mm	Each	228.00
33	Providing and fixing aluminum Tower bolts anodized or transparent or dyed to required color or shade with necessary screws etc complete.		
	a) 300 x 10 mm	Each	146.60
	b) 250 x 10 mm	Each	112.30
	c) 150 x 10 mm	Each	76.90
	d) 100 x 10 mm	Each	61.60
34	Providing and fixing aluminum Handles anodised transparent or dyed to required color or shade with necessary screws etc complete.		
	a) 125 mm	Each	86.60
	b) 100 mm	Each	68.40
	c) 75 mm	Each	59.60
35	Providing and fixing 50 cm long aluminum kicking plate 100 x 3.15 mm anodised, transparent or dyed to required color or shade with necessary screws etc complete.	Each	249.40
36	Providing and fixing chromium plated bright finished 100 mm mortice latch and lock with 6 levers and a pair of CP handles with necessary screws etc complete (best make of approved quality).	Each	505.80
37	Extra for sheet glass panes 5.5 mm thick used instead of ordinary glass panes in glazed or panelled and glazed doors, windows or clerestory windows (total area of shutters to be measured).	Sqm	16.30
38	Extra for providing vision panel not exceeding 0.1 Sq.m. in all types of flush door shutters (excluding cost of glass).		

9. Wood Work

Sl. No.	Description	Unit	Rate
	a) Rectangular or square	Sqm of door area	174.90
	b) Commercial type door	Sqm of door area	284.20
39	Extra if louvers not exceeding 0.2 Sq.m. are provided in flush door shutters (total area of shutters to be measured).		
	a) Decorative type door	Sqm of door area	473.80
	b) Commercial type door	Sqm of door area	473.80
40	Providing and fixing louvers 50 mm wide in grooves in clerestory windows frames excluding the cost of frames.		
	a) Timber class - A IV, 12 mm thick	Sqm	1312.70
	b) Timber class - B I, 12 mm thick	Sqm	1191.20
	c) Timber class - B II, Scantling (12 mm thick)	Sqm	896.30
	d) Timber class - C, 12 mm thick	Sqm	950.20
	e) Asbestos cement sheet 6 mm thick	Sqm	554.70
	f) Glass sheet 3 mm thick	Sqm	816.70
41	Providing and fixing 12 mm thick and 100 mm wide pelmet with 25 mm dia wooden curtain rod and brackets including fixing with 25 x 3 mm MS flat 10 cm long and plugs etc complete.		
	a) Timber class - A IV	Mtr	291.40
	b) Timber class - B I	Mtr	278.80
	c) Timber class - B II	Mtr	253.20
	d) Timber class - C.	Mtr	265.80
42	Providing and fixing 12 mm thick and 100 mm wide pelmet of flat pressed 3 layer particle board (medium density) with 25 mm dia second class teak wood curtain rod and brackets including fixing with 25 x 3 mm MS flat 10 cm long and plugs etc complete.	Mtr	447.80
43	Extra for using veneered particle board in item on pelmets 12 mm thick and 100 mm wide.		
	a) Teak wood veneering each face	Mtr	235.90
	b) Commercial wood veneering each face	Mtr	174.10
44	Providing and fixing 12 mm thick and 150 mm wide pelmet with 25 mm dia wooden curtain rod and brackets including fixing with 25 x 3 mm MS flat 10 cm long and plugs etc complete.		
	a) Timber class - A IV	Mtr	351.70
	b) Timber class - B I	Mtr	337.10
	c) Timber class - B II	Mtr	307.30
	d) Timber class - C	Mtr	321.90

9. Wood Work

Rate	Sl. No.	Description	Unit	Rate
174.90	45	Providing and fixing 12 mm thick and 150 mm wide pelmet of flat pressed 3 layer particle board (medium density) with 25 mm dia second class teak wood curtain rod and brackets including fixing with 25 x 3 mm MS flat 10 cm long and plugs etc complete.	Mtr	568.50
284.20	46	Extra for using veneered particle board in item of pelmet 12 mm thick and 150 mm wide.		
473.80	a)	Teak wood veneering each face	Mtr	183.80
	b)	Commercial wood veneering each face	Mtr	212.40
473.80	47	Providing and fixing 25 mm dia first class Indian teak wood curtain rods with brackets plugs etc wherever required.	Mtr	96.20
	48	Providing and fixing 38 mm panelled glazed or panelled and glazed partitions fixed to frames with iron screws etc complete (frames to paid separately).		
1312.70	a)	Timber class - A IV	Sqm	2651.50
1191.20	b)	Timber class - B I	Sqm	2429.60
896.30	c)	Timber class - B II	Sqm	2226.70
950.20	49	Providing and fixing plain asbestos cement sheet 6 mm thick in partitions including fixing to frames with brass screws etc complete with 50 x 12 mm soft wood (chamal wood) beading (frames to be paid separately).	Sqm	623.80
554.70				
816.70	50	Providing and fixing in partitions 4 mm thick hard board of approved quality including fixing in frames with brass screws etc complete with 50 x 12 mm wooden beading (frames to be paid separately).		
	a)	Timber class - B I	Sqm	525.60
291.40	b)	Timber class - A IV	Sqm	531.30
278.80	51	Sawing charges for converting wooden sleepers of logs into planks and scantlings etc.		
253.20				
265.80	a)	Soft wood	Sqm	37.00
447.80	b)	Hard wood	Sqm	58.00
	52	25mm thick wooden shelves supported on 40 x 40 x 6 mm "T" or "L" iron brackets fixed at suitable distance but not exceeding 75 cm apart in 7.5 x 7.5 x 15 cm block of cement concrete mix 1 : 3 : 6 (1cement: 3 coarse sand: 6 graded stone shingle 20 mm nominal size) with :		
	a)	Approved local wood best available class - B.	Sqm	2413.80
235.90	b)	2nd class approved local wood class - B I.	Sqm	2413.80
174.10	53	Providing and fixing 40 x 3 mm flat iron hold fasts 40 cm long including fixing to frame with 10 mm dia bolts, nuts and wooden plugs and embedding in cement concrete block 30 x 10 x 15 cm in 1 : 3 : 6 (1 cement : 3 sand : 6 hard stone shingle 40 mm nominal size).	Each	106.30

10. Steel Work

Sl. No.	Description	Unit	Rate
1	Steel work in single section including cutting, hoisting, fixing in position and applying a priming coat of red lead paint.		
	a) In RS Joists	Quintal	9357.70
	b) In Tees, Angles and Channels	Quintal	10094.40
	c) In Flats up to 10 mm in thickness	Quintal	9423.80
2	Steel work riveted or bolted in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint.		
	a) In RS Joists	Quintal	9760.30
	b) In Tees, Angles, Flats and Channels	Quintal	10896.40
3	Providing and fixing in position collapsible steel shutters with vertical channels 20 mm x 10 mm x 2 mm and braced with flat iron diagonals 20 mm x 5 mm size with top and bottom rails of T iron 40 mm x 40 mm x 6 mm with 38 mm dia steel pulleys complete with bolts, nuts, locking arrangements, stoppers, handles including applying a priming coat of red lead paint.	Sqm	8204.80
4	Providing and fixing MS fan clamp type I of 16 mm dia MS bar bent to shape with hooked ends in RCC slabs during laying including painting the exposed portion of loop all as per standard design complete.	Each	162.80
5	Extra over rate of item No. 4 for providing and fixing MS fan clamp type-2 as per standard design in RCC beams during laying, towards the additional height of the clamp due to beam rib.	Cm height	2.40
6	Supplying and fixing rolling shutters of approved make, made of 80 x 1.25 mm MS 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 outside locking with push and pull operation complete but excluding the cost of the top cover and spring.	Sqm	2188.90
7	Providing and fixing 27.5 cm long wire spring grade No. 2 for rolling shutters.	Each	576.70
8	Providing and fixing top cover for rolling shutters.	Mtr	915.10
9	Providing and fixing ball bearing for rolling shutters.	Each	504.40
10	Providing and fixing MS round holding down bolts with nuts and washer plates etc complete.	Quintal	13597.50
11	Providing and fixing bolts up to 300 mm in length including nuts and washers complete.	Quintal	17224.50
12	Providing and fixing bolts above 300 mm in length including nuts and washers complete.	Quintal	17224.50
13	Providing and fixing MS rivets of sizes in position.	Quintal	23900.90
14	Welding by gas plant	Cm length	7.20
15	Welding by Electric plant	Cm length	6.10

10. Steel Work

Sl. No.	Description	Unit	Rate
16	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer welded and bolted including special shaped washers etc complete (welding to be paid separately).	Kg	112.80
17	Providing and fixing T-iron frames for doors, windows and ventilators of MS Tee sections joints mitred and welded with 15 x 3 mm legs, 10 cm long embedded in cement concrete block 15 cm x 10 cm x 10 cm size of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or bolt and nuts as required, including fixing of necessary butt hinges and screws and applying a priming coat of approved primer.	Kg	114.60
18	Providing and fixing T-iron frames for doors, windows and ventilators of MS Tee sections joints mitred and welded with 15 x 3 mm legs, 10 cm long embedded in cement concrete block 15 cm x 10 cm x 10 cm size of 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded shingle 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or bolt and nuts as required, including fixing of necessary butt hinges and screws and applying a priming coat of approved primer.	Kg	114.60
19	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.		
	a) Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	43.30
	b) Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg	25.00
20	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).		
	a) Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	127.10
	b) Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg	86.70
21	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.	Metre	45.00

10. Steel Work

Sl. No.	Description	Unit	Rate
22	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:		
	a) Profile B		
	i) Fixing with adjustable lugs with split end tail to each jamb	Metre	376.60
	ii) Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Metre	363.80
	b) Profile C		
	i) Fixing with adjustable lugs with split end tail to each jamb	Metre	401.70
	ii) Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Metre	388.90
	c) Profile E		
	i) Fixing with adjustable lugs with split end tail to each jamb	Metre	439.40
	ii) Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Metre	426.60
23	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
	a) In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	Kg	114.60
	b) In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	119.50
24	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.		
	a) M.S. tube	Kg	128.40
	b) E.R.W. tubes	Kg	120.50
	c) G.I. pipes	Kg	163.10
25	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	513.90

11. Flooring

Sl. No.	Description	Unit	Rate
CEMENT CONCRETE FLOORING AND SKIRTING :			
1	25 mm thick cement concrete flooring 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) finished with a floating coat of neat cement.	Sqm	426.60
2	Cement concrete flooring 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement.		
	a) 40 mm thick	Sqm	413.60
	b) 50 mm thick	Sqm	485.50
	c) 75 mm thick	Sqm	661.70
3	40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 12.5 mm nominal size) & top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) 1 : 3 (1 cement red oxide mix : 3 coarse sand) finished with a floating coat of neat cement red oxide mix of same proportion.	Sqm	908.80
4	Add or deduct per 1kg for using more or less than 3.5 kg of red oxide of iron per 50 kg of cement in 40 mm thick red oxide flooring.	Sqm	31.60
5	Cement plaster skirting (up to 30 cm height) with cement mortar 1 : 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, including rounding of junctions with floor.		
	a) 18 mm thick	Sqm	355.50
	b) 21 mm thick	Sqm	376.50
6	Red oxide plaster skirting (up to 30 cm height) with top layer of 6 mm thick plaster of cement red oxide mix (using 3.5 kgs of red oxide of iron per 50 kg of cement) in mortar 1 : 3 (1 cement : 3 coarse sand) finished with floating coat of cement red oxide mix of same proportion.		
	a) 18 mm thick with under layer 12 mm thick cement plaster 1 : 3 (1 cement : 3 coarse sand)	Sqm	417.50
	b) 21 mm thick with under layer 15 mm thick cement plaster 1 : 3 (1 cement : 3 coarse sand)	Sqm	437.10
7	Add or deduct per 1Kg for using more or less than 3.5 kgs of red oxide of iron per 50 kg of cement in 18 mm or 21 mm thick red oxide plaster skirting.	Sqm	17.80
TERRAZZO FLOORING :			
8	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stones aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder 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).		
	a) Dark shade pigment with ordinary cement	Sqm	1094.10
	b) Light shade pigment with white cement	Sqm	1252.30
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1170.60
	d) White cement without any pigment	Sqm	1176.50
	e) Light shade pigment with ordinary cement	Sqm	1098.60

11. Flooring

Sl. No.	Description	Unit	Rate
9	40 mm thick marble chips flooring, rubbed and polished to granolithic finish under layer 31 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black or white and black marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder 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.		
	a) Dark shade pigment with ordinary cement	Sqm	1139.20
	b) Light shade pigment with white cement	Sqm	1370.80
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1248.10
	d) White cement without any pigment	Sqm	1283.40
	e) Light shade pigment with ordinary cement	Sqm	1147.30
10	40 mm thick marble chips flooring, rubbed and polished to granolithic finish under layer 28 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black or white and black marble chips of sized from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3 : 1 (3 cement : 1 marble powder) by weight in proportion of 2 : 3 (2 cement marble powder mix : 3 marble chips) by volume.		
	a) Dark shade pigment with ordinary cement	Sqm	1200.70
	b) Light shade pigment with white cement	Sqm	1517.20
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1353.30
	d) White cement without any pigment	Sqm	1404.60
	e) Light shade pigment with ordinary cement	Sqm	1212.10
11	Marble chips skirting (up to 30 cm height) rubbed and polished to granolithic finish top layer 6 mm thick with white, black or white and black marble chips of sized from smallest to 4 mm nominal size laid in cement marble powder 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.		
	(A) 18 mm thick with under layer 12 mm thick in cement plaster 1 : 3 (1 cement : 3 coarse sand).		
	a) Dark shade pigment with ordinary cement	Sqm	1028.50
	b) Light shade pigment with white cement	Sqm	1186.70
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1793.20
	d) White cement without any pigment	Sqm	1133.50
	e) Light shade pigment with ordinary cement	Sqm	1034.20
	(B) 21 mm thick with under layer 15 mm thick cement plaster 1:3 (1 cement : 3 coarse sand).		
	a) Dark shade pigment with ordinary cement	Sqm	1049.10
	b) Light shade pigment with white cement	Sqm	1207.30
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1125.60

11. Flooring

Sl. No.	Description	Unit	Rate
	d) White cement without any pigment	Sqm	1153.10
	e) Light shade pigment with ordinary cement	Sqm	1049.20
12	Extra/Less, if chocolate, grey or yellow marble chips are used instead of white, black or white and black chips in marble chips flooring or skirting in :		
	a) Top 6 mm thick layer	Sqm	0.70
	b) Top 9 mm thick layer	Sqm	1.80
	c) Top 12 mm thick layer	Sqm	2.30
13	Extra/Less, if Baroda green marble chips are used instead of white, black or white and black chips in marble chips flooring or skirting in :		
	a) Top 6 mm thick layer	Sqm	14.60
	b) Top 9 mm thick layer	Sqm	21.90
	c) Top 12 mm thick layer	Sqm	29.20
14	Extra for providing and fixing aluminum strips 40 mm wide and 1.6 mm thick in joints of terrazzo floor.	Sqm	83.80
15	Extra for providing and fixing glass strips in joints of terrazzo floor.		
	a) 40 mm wide and 4 mm thick	Sqm	89.60
	b) 40 mm wide and 6 mm thick	Sqm	93.30
16	Extra for terrazzo flooring laid as floor borders, margins and similar bands exceeding 7.5 cm but not exceeding 30 cm in width.	Sqm	24.50
17	Extra for laying terrazzo flooring on stairs case treads not exceeding 30 cm in width including the cost of forming, nosing etc.	Sqm	36.70
TERRAZZO TILE FLOORING :			
18	Pre-cast terrazzo tiles 20 mm thick with white, black or white and black marble chips of sizes up to 6 mm laid in floor, treads of steps and landings on 25 mm thick bed of cement mortar 1 : 3 (1 cement : 3 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with pre-cast tiles of :		
	a) Light shade using white cement	Sqm	1619.60
	b) Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	1530.60
	c) Dark shade using ordinary cement	Sqm	1447.70
19	Pre-cast terrazzo tiles 20 mm thick with marble chips of sizes upto 6 mm in skirting and risers of steps not exceeding 30 cm in height on 12 mm thick cement plaster 1 : 3 (1 cement : 3 coarse sand) jointed with neat cement slurry including rubbing and polishing complete with tiles of :		
	a) Light shades using white cement	Sqm	1768.60
	b) Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	1635.00
	c) Dark shade using ordinary cement	Sqm	1510.70
20	Pre-cast terrazzo tiles 20 mm thick with marble chips of sizes up to 6 mm fixed on wall on 12 mm thick cement plaster 1 : 3 (1 cement : 3 coarse sand) jointed with neat cement slurry including rubbing and polishing complete with tiles of :		
	a) Light shades using white cement	Sqm	1734.40

11. Flooring

Sl. No.	Description	Unit	Rate
	b) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1600.80
	c) Dark shade using ordinary cement	Sqm	1476.50
21	Chequered terrazzo tiles 22 mm thick with marble chips of sizes upto 6mm in floors on 25 mm thick bed mortar 1 : 3 (1 cement : 3 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete:		
	a) Light shades using white cement	Sqm	2201.90
	b) Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	2121.50
	c) Dark shade using ordinary cement	Sqm	2057.00
22	Extra, if terrazzo tiles are laid in treads of steps not exceeding 30 cm in width.	Sqm	47.30
23	Extra, if cut tiles other than half tiles are used in risers of steps skirting and dado.	Sqm	165.40
24	Extra for making chequeres of approved pattern on cement concrete floors, landing and pavements etc.	Sqm	31.20
25	White glazed tiles 5mm.thick in flooring, skirting, risers of step and dado in 12 mm thick cement plaster 1 : 3(1 cement: 3 coarse sand) painted with white cement slurry.	Sqm	2939.30
WOODEN FLOORING :			
26	First class Indian teak wood 25 mm wooden plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2775.00
27	Class - B I Indian teak wood 25 mm wooden plankings tongued and grooved in flooring including fixing with screws complete.	Sqm	2629.90
28	Class - C wood 25 mm plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2483.80
29	Class IV wood 25 mm plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2692.70
30	Soft wood 25 mm plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2596.80
31	25 mm thick cement concrete flooring 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone shingle 12.5 mm nominal size) finished with a floating coat of neat cement.	Sqm	393.40
32	Cement concrete flooring 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone shingle 20 mm nominal size) finished with a floating coat of neat cement.		
	a) 40 mm thick	Sqm	387.60
	b) 50 mm thick	Sqm	452.90
	c) 75 mm thick	Sqm	612.80
33	40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 stone shingle 12.5 mm nominal size) & top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) 1 : 3 (1 cement red oxide mix : 3 coarse sand) finished with a floating coat of neat cement red oxide mix of same proportion.	Sqm	891.00

11. Flooring

Rate	Sl. No.	Description	Unit	Rate
1600.80	34	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stones shingle 12.5 mm nominal size) and top layer 6 mm thick with white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder 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).		
1476.50		a) Dark shade pigment with ordinary cement	Sqm	1072.80
		b) Light shade pigment with white cement	Sqm	1231.00
2201.90		c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1149.30
2121.50		d) White cement without any pigment	Sqm	1172.10
2057.00		e) Light shade pigment with ordinary cement	Sqm	1078.50
47.30	35	40 mm thick marble chips flooring, rubbed and polished to granolithic finish under layer 31 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone shingle 12.5 mm nominal size) and top layer 9 mm thick with white, black or white and black marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder 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.		
165.40		a) Dark shade pigment with ordinary cement	Sqm	1120.50
31.20		b) Light shade pigment with white cement	Sqm	1304.40
		c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1181.70
2939.30		d) White cement without any pigment	Sqm	1264.70
		e) Light shade pigment with ordinary cement	Sqm	1080.90
2775.00	36	40 mm thick marble chips flooring, rubbed and polished to granolithic finish under layer 28 mm thick cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone shingle 12.5 mm nominal size) and top layer 12 mm thick with white, black or white and black marble chips of sized from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3 : 1 (3 cement : 1 marble powder) by weight in proportion of 2 : 3 (2 cement marble powder mix : 3 marble chips) by volume.		
2629.90		a) Dark shade pigment with ordinary cement	Sqm	1183.90
2483.80		b) Light shade pigment with white cement	Sqm	1437.00
		c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1273.10
2692.70		d) White cement without any pigment	Sqm	1389.30
2596.80		e) Light shade pigment with ordinary cement	Sqm	1131.90
393.40	37	Extra/Less, if 12.5 mm nominal size brick aggregate is used instead of 12.5 mm nominal size stone aggregate in marble chips flooring in :		
		a) Bottom 34 mm thick layer	Sqm	9.10
387.60		b) Bottom 31 mm thick layer	Sqm	8.40
452.90		c) Bottom 28 mm thick layer	Sqm	7.70
612.80				
891.00				

11. Flooring

Sl. No.	Description	Unit	Rate
38	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete		
	a) Size of Tile 500x500 mm	Sqm	1684.00
	b) Size of Tile 600x600 mm	Sqm	1803.50
	c) Size of Tile 800x800 mm	Sqm	1952.90
	d) Size of Tile 1000x1000 mm	Sqm	2923.90
39	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.		
	a) Size of Tile 500x500 mm	Sqm	1699.50
	b) Size of Tile 600x600 mm	Sqm	1819.00
	c) Size of Tile 800x800 mm	Sqm	1968.40
	d) Size of Tile 1000x1000 mm	Sqm	2939.40
40	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :		
	a) Makrana white second quality	Sqm	2809.60
	b) Raj Nagar plain	Sqm	1740.10
	c) Agaria White	Sqm	2332.70
	d) Black Zebra	Sqm	2043.60
	e) Udaipur green marble	Sqm	1638.90
	f) Pink plain marble	Sqm	1675.00
41	Extra for pre finished nosing to treads of steps of marble stone.	Sqm	297.90
42	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	Sqm	342.20
43	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :		
	a) 25 mm thick	Sqm	1216.60
44	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (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 slabs, including rubbing and polishing complete.	Sqm	1253.20
45	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	795.50

12. Roofing

Sl. No.	Description	Unit	Rate
SLOPING ROOFS :			
1	Providing corrugated G.I. sheet roofing fixed with galvanised iron J or L hooks, bolts & nuts 8 mm dia with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete, excluding the cost of purlins, rafters and trusses.		
	a) 0.80 mm thick GI sheet	Sqm	1136.70
	b) 0.63 mm thick GI sheet	Sqm	971.70
2	Extra for providing and fixing corrugate GI sheets vertically or to a pitch exceeding to 60 degrees.	Sqm	10.60
3	Extra for straight cutting and waste in CGI sheet roofing for making opening of area exceeding 40 Sq.dm. for chimney stacks, sky lights etc.		
	a) 0.80 mm thick sheet	Mtr	136.40
	b) 0.63 mm thick sheet	Mtr	122.30
4	Providing ridges or hips 60 cm overall in plain G.I. sheet fixed with galvanised iron J or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.		
	a) 0.80 mm thick GI sheet	Mtr	690.40
	b) 0.63 mm thick GI sheet	Mtr	607.50
5	Providing 7 mm thick asbestos cement corrugated sheets roofing fixed with galvanised iron J or L hooks 8 mm dia. G.I. plain and bitumen washers complete excluding the cost of purlins, rafter and trusses.	Sqm	432.10
6	Extra for providing and fixing wind ties of 40 x 6 mm flat iron section.	Mtr	162.10
7	Extra for straight cutting and waste in A.C. corrugated, semi-corrugated sheet roofing for making opening of area exceeding 40 Sq.dm. for chimney stacks, sky light etc.		
	a) 7 mm thick corrugated sheets	Mtr	115.60
	b) 7 mm thick semi-corrugated sheets	Mtr	115.60
8	Providing and fixing ridges and hips in asbestos cement sheets roofing with G.I. J or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers complete.		
	a) Close fitting adjustable ridge.	Mtr	422.90
	b) Serrated or plain wing adjustable ridge.	Mtr	322.60
9	Lime concrete terracing on roofs average thickness 10 cm laid to fall with 25 mm gauge brick ballast and 50% mortar consisting of 1 lime putty and 2 surki finished with gur and belgiri treatment complete.	Sqm	946.70
10	Lime concrete terracing on roofs, average thickness 10 cm laid to fall with 25 mm gauge brick ballast and 50% mortar consisting of 1 lime putty and 2 surki finished with gur and belgiri treatment complete and covered with flat brick tiles grouted with cement mortar 1 : 3 (1 cement : 3 fine sand) over 12 mm layer cement mortar 1 : 3 (1 cement : 3 fine sand) and finished neat.	Sqm	1765.90
11	Extra for every additional 5.0 mm thickness of lime concrete terracing.	Sqm	45.80
12	Painting top of roofs with bitumen of approved quality at 17 Kg per 10 Sq.m. impregnated with a coat of coarse sand at 0.06 Cu.m. per 10 Sq.m. including clearing the roof surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete.		
	a) With residual petroleum bitumen of penetration 80/100 of approved quality	Sqm	181.50
	b) With hot cut back bitumen	Sqm	159.60

12. Roofing

Sl. No.	Description	Unit	Rate
CEILING :			
13	Providing and fixing 20 mm thick wooden planks ceiling (frame work for base to be paid separately) with M.S. screws.		
	a) Timber Plank Class - A IV	Sqm	1182.70
	b) Timber Plank Class - B I	Sqm	1110.30
14	Providing and fixing 12 mm thick insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately).	Sqm	1382.40
15	Providing and fixing 12 mm thick unveneered teak wood particle board of approved quality with necessary nails etc. complete (frame work to be paid separately).	Sqm	923.90
16	Providing and fixing 3 mm thick hard board sheet ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately).	Sqm	426.50
17	Providing and fixing 4.0 mm thick asbestors plain sheet ceiling of approved quality with necessary nails etc. complete (frame work for base to be paid separately).	Sqm	442.20
17 (a)	Providing and fixing plain Multipurpose 6mm thick Cement board (High Pressure steam cured) as per IS : 14862, with suitable screws for fibre cement board in ceiling etc. complete (frame work to be paid separately).	Sqm	576.70
18	cured) as per IS : 14862, with suitable screws for fibre cement board in ceiling etc. complete (frame work to be paid separately).	Sqm	600.10
19	Providing and fixing plain, square edged wooden beading 38 mm x 12 mm section with screws of approved quality for ceiling.		
	a) Best local approved quality wood.	Mtr	71.70
	b) Local soft wood	Mtr	69.90
20	Extra for making chamfered edges of beading.	Mtr	13.90
RAIN WATER PIPES :			
21	Providing and fixing 600 mm long 100 mm diameter stone ware pipe in cement mortar 1 : 4 (1 cement : 4 fine sand).	Each	305.50
22	Providing and fixing 600 mm long 100 mm dia cement pipe in cement mortar 1 : 4 (1 cement : 4 fine sand).	Each	422.90
23	Providing and fixing on wall face C.I. rain water pipe including filling the joints with spun yarn soaked in neat cement slurry and cement mortar 1 : 2 (1 cement : 2 fine sand).		
	a) 75 mm diameter pipe	Mtr	848.50
	b) 100 mm diameter pipe	Mtr	1026.00
	c) 150 mm diameter pipe	Mtr	1560.00
24	Providing and fixing M.S. Holder bat clamps of approved design of C.I. or S.C.I. pipes embedded in and including cement concrete block 10 cm x 10 cm x 10 cm of 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 stone aggregate 20mm nominal size) including cost of cutting holes and making good the wall etc.		
	a) 75 mm diameter	Each	154.40

12. Roofing

e	Sl. No.	Description	Unit	Rate
		b) 100 mm diameter	Each	158.60
		c) 150 mm diameter	Each	171.90
32.70	25	Providing and fixing on wall face C.I. accessories for rain water pipes including filling the joints with spun yarn soaked in neat cement slurry and cement mortar 1 : 2 (1 cement: 2 fine sand).		
10.30		(A) CI Plain bend		
82.40		a) 75 mm diameter	Each	276.50
23.90		b) 100 mm diameter	Each	522.50
		c) 150 mm diameter	Each	891.10
26.50		(B) CI head flat or corner type bend :		
		a) 75 mm diameter	Each	338.70
42.20		b) 100 mm diameter	Each	402.10
		c) 150 mm diameter	Each	939.80
76.70		(C) CI Plain shoes :		
		a) 75 mm diameter	Each	452.40
00.10		b) 100 mm diameter	Each	678.20
		c) 150 mm diameter	Each	829.90
		(D) CI Offset (Plain) :		
		a) 55 mm projection - 75 mm diameter	Each	329.00
71.70		b) 55 mm projection - 100 mm diameter	Each	541.40
69.90		c) 55 mm projection - 150 mm diameter	Each	724.30
13.90		d) 150 mm projection - 75 mm diameter	Each	425.70
		e) 150 mm projection - 100 mm diameter	Each	692.40
		f) 150 mm projection - 150 mm diameter	Each	744.80
05.50	26	Providing and fixing for A.C. pipe on wall plugs and standard holder bat clamp comprising of two semicircular halves of flat iron and cast iron base screwed on wooden plugs :		
22.90		a) 80 mm diameter	Each	231.90
		b) 100 mm diameter	Each	236.00
48.50	27	Providing and fixing on wall face asbestos cement rain water pipe including jointing with spun yarn soaked in bitumen and cement mortar 1 : 2 (1 cement: 2 coarse sand) complete:		
26.00		a) 80 mm diameter	Mtr	180.50
60.00		b) 100 mm diameter	Mtr	325.50
	28	Providing and fixing on wall face asbestos cement fittings for rain water pipe including jointing with spun yarn soaked in bitumen and cement mortar 1 : 2 (1 cement : 2 coarse sand).		
54.40		(A) Bend of required degree :		

12. Roofing

Sl. No.	Description	Unit	Rate
	a) 80 mm diameter	Each	223.70
	b) 100 mm diameter	Each	347.60
	(B) (a) Offset 50 mm projection - 80 mm dia	Each	133.60
	(b) Offset 50 mm projection - 100 mm dia	Each	139.10
	(C) (a) Offset 150 mm projection - 80 mm dia	Each	298.20
	(b) Offset 150 mm projection - 100 mm dia	Each	323.80
	(D) Standard Shoe. :		
	a) 80 mm diameter	Each	133.60
	b) 100 mm diameter	Each	149.20
	(E) Head A.C. :		
	a) 80 mm diameter	Each	159.90
	b) 100 mm diameter	Each	209.90
	BAMBOO ROOFING :		
29	Providing and fixing 25 mm to 40 mm diameter muli bamboo roof frame at 15 cm centre to centre including G.I. wire tied complete with one layer dhari mat lining on roof frame.	Sqm	267.50
30	Providing and fixing 25 mm to 40 mm diameter muli bamboo roof frame at 22.5 cm centre to centre including G.I. wire tied complete with one layer dhari mat lining on roof frame.	Sqm	209.00
31	Bamboo shingle roofing with 10 cm spacing of shingles and bamboo battens tied with G.I. wire including erecting and placing in position complete (roof frame to be paid separately).	Sqm	573.20
32	Thatch roofing with superior quality sungrass on bamboo roof frame tied with G.I. wire complete (roof frame to be paid separately).		
	a) 22.50 cm thick thatching	Sqm	247.00
	b) 15 cm thick thatching	Sqm	195.90
	c) 10 cm thick thatching	Sqm	125.50
	d) 7.50 cm thick thatching	Sqm	121.50
33	Ridge and hips with double dhari and one layer of tarja.	Mtr	140.20
34	Ridge and hips with sungrass (new).	Mtr	31.10
35	Providing double dhari mat ceiling strengthened with split bamboo battens and tied with G.I. wire including fittings and fixing complete:		
	a) 15 cm apart batten	Sqm	202.50
	b) 22.50 cm apart batten	Sqm	174.90
36	Providing champakampa tarja ceiling with split bamboo battens and tied with G.I. wire including fitting and fixing complete.	Sqm	520.90

12. Roofing

Sl. No.	Description	Unit	Rate
37	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown or/and residual bitumen applied hot @ 1.45 Kg. per Sq.m. of area for each courses, second course of roofing felt type-3 grade-I (hessian base self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea size gravel spread at 6 Cu.dm. per sqm. including preparation of surface excluding grading complete.	Sqm	430.90
38	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or/and residual bitumen applied hot @ 1.45, 1.20 & 1.45 Kg. per Sq.m. of area respectively, second & fourth courses of roofing felt type-3 grade-I (hessian base finished bitumen felt) and sixth and final course of stone grit 6 mm and down size or pea size gravel spread at 6 Cu.dm. per Sq.m. including preparation of surface excluding grading complete.	Sqm	671.80
39	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or/and residual bitumen applied hot @ 1.45, 1.20 & 1.70 Kg. per Sq.m. of area respectively, second & fourth courses of roofing felt type-2 grade-I (fibre base self finished bitumen felt) and sixth and final course of stone grit 6 mm and down size or pea size gravel spread at 6 Cu.dm. per Sq.m. including preparation of surface excluding grading complete.	Sqm	766.90
40	Supplying and applying bituminous solution primer on roof and or wall surface at 0.24 litre per Sq.m.	Sqm	33.00
41	Supplying and laying under layer of bitumen saturated felt type-I.	Sqm	133.50
42	Deduct for omitting in water proffing treatment final course of spreading stone grit 6 mm and down size or pea sized gravel.		
	a) At 6 Cu.dm. per Sq.m.	Sqm	17.20
	b) At 8 Cu.dm. per Sq.m.	Sqm	22.50
43	Grading roof for water proofing treatment with:		
	a) Lime concrete with 20 mm nominal size brick aggregate and 50% lime mortar 1 : 2 (1 lime putty : 2 surki).	Cum	9371.20
	b) Cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	6891.50
	c) Cement mortar 1 : 3 (1 cement : 3 coarse sand).	Cum	10486.00
	d) Cement mortar 1 : 4 (1 cement : 4 coarse sand).	Cum	9006.80
44	Providing and laying plastic roofing compound standard black (using 2.75 Kg. per Sq.m.) over a surface painted with cold liquid plastic roofing compound at 0.24 Litre per Sq.m. including spreading coarse sand over the top surface at 6 Cu.dm. per Sq.m. etc. complete.	Sqm	242.10
45	Providing Alumunium Corrugated Sheet Roofing fixed with 'J' hooks,bolts,nuts, washer with bitumen (the 'J' hook,nut and bolt are as per IS:733 of 1983) and limpet washer filled with white lead complete excluding the cost of the purlins,rafters and trusses.		
	a)Using 0.65 mm thick Alumunium Corrugated Sheet	Sqm	1090.60
	b)Using 0.71 mm thick Alumunium Corrugated Sheet	Sqm	1156.70

12. Roofing

Sl. No.	Description	Unit	Rate
46	Providing Aluminium Troughed Sheet Roofing fixed with 'J' hooks, bolts, nuts, washer with bitumen (the 'J' hook, nut and bolt are as per IS:733 of 1983) and limpet washer filled with white lead complete excluding the cost of the purlins, rafters and trusses.		
	a) Using 0.65 mm thick Aluminium Troughed Sheet	Sqm	1164.70
	b) Using 0.71 mm thick Aluminium Troughed Sheet	Sqm	1240.60
47	Providing and fixing Durashine zinc-Aluminium alloy coated (TATA Bluescope building product) sheet roofing fixed with necessary fasteners and lapping method as described by the manufacturer inclusive of cutting hoisting and fixing complete, excluding the cost of purlins, rafters and trusses.		
	Details of cost for 179.655 Sq.m. Laying and fixing 20 sheets in 3 row require Overall Sheet area of $20 \times 3 \times 3.05 \times 1.072$ plus 3% wastages = 202.061 Sqm After H & L lapping as per manufacturer's specification, effective Area Measurable will be $20 \times 3 \times 2.95 \times 1.015 = 179.655$ Sqm	Sq.m.	953.90
48	Providing and fixing Durashine zinc-Aluminium alloy coated (TATA Bluescope building product) sheet ridges fixed with necessary fasteners and lapping method as described by the manufacturer inclusive of cutting hoisting and fixing complete, excluding the cost of purlins, rafters and trusses.		
	Details of cost for 11.75m Laying and fixing 4 lengths of 3.05m each require Overall length of 4×3.05 plus 3% wastages = 12.566m After lapping as per manufacturer's specification, effective Measurable length will be $(4 \times 3.05) - (3 \times 0.15) = 11.75$ m	Mtr.	748.30
49	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :		
	(a) 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) : 2011 (Board with BIS Certification marks)	Sq.m	801.20
50	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.		
	a) 75 mm diameter	Mtr.	157.10
	b) 110 mm diameter	Mtr.	246.10

13. Finishing

Sl. No.	Description	Unit	Rate
CEMENT PLASTER :			
1	12 mm cement plaster 1 : 3 (1 cement : 3 fine sand).	Sqm	189.00
2	12 mm cement plaster 1 : 4 (1 cement : 4 fine sand).	Sqm	167.70
3	12 mm cement plaster 1 : 5 (1 cement : 5 fine sand).	Sqm	156.20
4	12 mm cement plaster 1 : 6 (1 cement : 6 fine sand).	Sqm	146.40
5	15 mm cement plaster 1 : 3 (1 cement : 3 fine sand) on the rough side of single or half brick wall.	Sqm	223.60
6	15 mm cement plaster 1 : 4 (1 cement : 4 fine sand) on the rough side of single or half brick wall.	Sqm	198.10
7	15 mm cement plaster 1 : 5 (1 cement : 5 fine sand) on the rough side of single or half brick wall.	Sqm	184.40
8	15 mm cement plaster 1 : 6 (1 cement : 6 fine sand) on the rough side of single or half brick wall.	Sqm	172.70
9	20 mm cement plaster 1 : 3 (1 cement : 3 fine sand).	Sqm	277.50
10	20 mm cement plaster 1 : 4 (1 cement : 4 fine sand).	Sqm	244.40
11	20 mm cement plaster 1 : 5 (1 cement : 5 fine sand).	Sqm	226.50
12	20 mm cement plaster 1 : 6 (1 cement : 6 fine sand).	Sqm	211.20
13	6 mm cement plaster to ceiling 1 : 3 (1 cement : 3 fine sand).	Sqm	130.80
14	6 mm cement plaster to ceiling 1 : 4 (1 cement : 4 fine sand).	Sqm	120.20
15	Neat cement punning.	Sqm	51.30
16	6 mm cement plaster 1 : 3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of lime wash on top of walls when dry for bearing of RCC slabs and beams.	Sqm	262.80
17	Extra for plaster to ceiling above 5 m height from floor level for every additional height of one metre or part there-of.	Sqm	32.10
18	Extra for plastering spherical ceiling.	Sqm	72.90
19	Extra for providing and mixing water proofing materials in proportion recommended by the manufacturers.	Sqm	12.70
20	18 mm mud plaster in two coats of 12 mm under layer and 6 mm top layer including finishing smooth complete.	Sqm	63.50
21	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	32.80
22	Extra for plastering on circular work not exceeding 6 m in radius.	Sqm	19.50
23	Extra for plastering done on mouldings cornices or architraves including neat finishing to the line and level.	Sqm	294.00

13. Finishing

Sl. No.	Description	Unit	Rate
SUPERIOR PLASTER :			
24	18 mm plastering with terrazzo finish rubbed and polished complete, under layer 12 mm thick cement plaster 1 : 3 (1 cement : 3 fine sand) and top layer 6 mm thick white, black or white and black marble chips of 3 mm and down size laid in cement marble powder 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.	Sqm	942.30
25	Extra if white cement is used instead of ordinary cement in top layer of 18 mm plastering with terrazzo finish.	Sqm	162.00
26	Extra if red, chocolate, orange or buff (yellow) colour is added to grey or white cement in the top layer of 18 mm plastering with terrazzo finish.	Sqm	117.70
27	Extra if black colour is added to grey or white cement in top layer of 18 mm plastering with terrazzo finish.	Sqm	105.70
28	Extra if blue or green colour is added to grey or white cement in top layer of 18 mm plastering with terrazzo finish.	Sqm	105.80
PLAIN CEMENT MORTAR BANDS :			
29	12 mm thick plain cement mortar band in cement mortar 1 : 4 (1 cement : 4 fine sand).		
	a) Flush band	Per cm/m	3.50
	b) Sunk band	Per cm/m	3.80
	c) Raised band	Per cm/m	4.30
30	18 mm thick plain cement mortar band in cement mortar 1 : 4 (1 cement : 4 fine sand).		
	a) Flush band	Per cm/m	4.40
	b) Sunk band	Per cm/m	4.80
	c) Raised band	Per cm/m	5.40
MOULDED CEMENT MORTAR BANDS :			
31	12 mm thick moulded cement mortar band in cement mortar 1 : 4 (1 cement : 4 fine sand).	Per cm/m	7.10
32	18 mm thick moulded cement mortar band in cement mortar 1 : 4 (1 cement : 4 fine sand).	Per cm/m	8.70
33	18 mm thick moulded cement mortar band in two coats under layer 12 mm thick with cement mortar 1 : 5 (1 cement : 5 coarse sand) top layer 6 mm thick with cement mortar 1 : 4 (1 cement : 4 fine sand).	Per cm/m	9.40
POINTING :			
34	Pointing on brick work with cement mortar 1 : 3 (1 cement : 3 fine sand).		
	a) Flush pointing	Sqm	103.50
	b) Ruled pointing	Sqm	110.20

13. Finishing

Sl. No.	Description	Unit	Rate
	c) Cut or weather struck pointing.	Sqm	148.00
	d) Raised and cut pointing.	Sqm	196.30
35	Pointing on stone work with cement mortar 1 : 3 (1 cement : 3 fine sand).		
	a) Flush pointing	Sqm	98.80
	b) Ruled pointing	Sqm	105.20
	c) Cut or weather struck pointing	Sqm	130.80
	d) Raised and Cut pointing	Sqm	192.30
36	Pointing on brick flooring with cement mortar 1 : 2 (1 cement : 2 fine sand).		
	a) Flush pointing	Sqm	80.70
	b) Ruled pointing	Sqm	86.80
37	Pointing on brick flooring with cement mortar 1 : 4 (1 cement : 4 fine sand).		
	a) Flush pointing	Sqm	74.00
	b) Ruled pointing	Sqm	80.20
	WHITE WASHING, COLOUR WASHING AND DISTEMPERING :		
38	White washing with lime on new work (two or more coats) to give an even shade.	Sqm	12.80
39	White washing with lime on old work to give an even shade.		
	a) In two or more coats	Sqm	13.00
	b) In one coat	Sqm	7.20
40	White washing with whiting on new work (three or more coats) to give even shade.	Sqm	21.60
41	White washing with whiting on old work to give even shade.		
	a) In two or more coats	Sqm	13.40
	b) In one coat	Sqm	7.40
42	Colour washing such as green, blue or buff on new work (two or more coats) including a base coat of white washing with lime to give an even shade.	Sqm	21.70
43	Colour washing such as green, blue or buff with lime on old work to give an even shade.		
	a) In two or more coats	Sqm	13.50
	b) In one coat	Sqm	7.60
44	Colour washing such as green, blue or buff on new work (two or more coats) including a base coat or white washing with whiting to give an even shade.	Sqm	21.50
45	Colour washing such as green, blue or buff on old work with whiting to give an even shade.		
	a) In two or more coats	Sqm	12.80

13. Finishing

Sl. No.	Description	Unit	Rate
	b) In one coat	Sqm	7.40
46	Hiramachi colour wash on new work (two or more coats) to give an even shade.	Sqm	23.20
47	Hiramachi colour wash on old work (one or or more coats) to give an even shade.	Sqm	10.00
48	Removing whitewash or colourwash by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc complete.	Sqm	7.00
DISTEMPERING :			
49	Distempering with dry distemper of approved brand and manufacture (two or more coats) and of required shade on new work including priming coat of whitening to give an even shade.	Sqm	63.50
50	Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.	Sqm	29.90
51	Distempering (two or more coats) with oil bound washable distemper of approved brand and manufacture and of required shade on new work over and including a priming coat with distemper primer of approved brand and manufacture to give an even shade.	Sqm	88.90
52	Distempering (one or more coats) with oil bound washable distemper of approved brand and manufacture and of required shade on old work to give an even shade.	Sqm	30.60
53	Applying one coat of distemper primer of approved brand and manufacture on wall surface.	Sqm	37.50
54	Applying one coat of cement primer of approved brand and manufacture on wall surface.	Sqm	37.60
55	Finishing walls with water proofing cement paint of approved brand and manufacture and required shade on new work (three or more coats) to give an even shade.	Sqm	169.30
56	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade on old work (one or more coats) to give an even shade.	Sqm	73.90
57	Removing dry or oil bound distemper by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	8.90
PAINTING :			
58	Painting two coats with oil type wood preservative of approved brand and manufacture on new work.	Sqm	48.30
59	Painting one coat with oil type wood preservative of approved brand and manufacture on old work.	Sqm	38.10
60	Coal tarring two coats on new work using 0.16 and 0.12 litre of coal tar per Sq.m. in the first and second coat respectively.	Sqm	45.70
61	Coal tarring one coat on old work using 0.12 litre of coal tar per Sq.m.	Sqm	26.00
62	Applying priming coat consisting of a mixture of red lead, white lead and double boiled linseed oil in the ratio of 0.7 Kg : 0.7 Kg : 1 Litre on wood work complete.	Sqm	54.80

13. Finishing

Sl. No.	Description	Unit	Rate
63	Applying priming coat with ready mixed pink primer of approved brand and manufacture on wood work complete.	Sqm	35.80
64	Applying priming coat of a mixture of red lead raw linseed oil and turpentine oil in the ratio of 2.80 Kg : 1 Litre : 1 Litre on steel work complete.	Sqm	53.00
65	Applying priming coat with ready mixed primer of approved brand and manufacture on steel work.	Sqm	33.50
66	Applying priming coat with ready mixed genuine red lead paint of approved brand and manufacture on steel work.	Sqm	34.20
67	Painting two or more coats (excluding priming coat) with superior ready mixed paint for wood work of approved brand and manufacture in all shades on new work to give an even shade.	Sqm	97.30
68	Painting (one or more coats) with superior ready mixed paint for wood work of approved brand and manufacture in all shades on old work to give an even shade.	Sqm	61.90
69	Painting two or more coats (excluding priming coat) with superior ready mixed paint for steel work of approved brand and manufacture in all shades on new work to give an even shade.	Sqm	97.30
70	Painting one or more coats with superior quality ready mixed paint for steel work of approved brand and manufacture in all shades on old work to give an even shade.	Sqm	61.90
71	Painting two or more coats on GI sheets with ready mixed superior paint of approved brand and manufacture on new work to give an even shade.	Sqm	65.20
72	Painting one or more coats on GI sheets with ready mixed superior paint of approved brand and manufacture on old work to give an even shade.	Sqm	42.20
73	Painting two or more coats on GI sheets with superior ready mixed paint of approved brand and manufacture in white, grey or green shades on new work to give an even shade.	Sqm	65.10
74	Painting one or more coats on GI sheets with superior ready mixed paint of approved brand and manufacture in white, grey or green shades on old work to give an even shade.	Sqm	42.20
75	Painting two or more coats with synthetic enamel paint of approved brand and manufacture in black or chocolate shade on new work over and including an under coat of suitable shade with ordinary paint of approved quality to give an even shade.	Sqm	77.00
76	Painting one or more coats with synthetic enamel paint of approved brand and manufacture in black or chocolate shade on old work to give an even shade.	Sqm	49.90
77	Painting one or more coats with black Japan paint of approved brand and manufacture to give an even shade.	Sqm	51.20
78	Painting two or more coats with black anti-corrosive bituminous paint of approved brand and manufacture on new work to give an even shade.	Sqm	69.70
79	Painting (two or more coats) with black anti-corrosive bitumastic paint of approved brand and manufacture on old work to give an even shade.	Sqm	45.30
80	Painting two or more coats with enamel paint of approved brand and manufacture in any shade on new work to give an even shade.	Sqm	77.60

13. Finishing

Sl. No.	Description	Unit	Rate
81	Painting (one or more coats) with enamel paint of approved brand and manufacture on old work in any shade to give an even shade.	Sqm	50.60
82	Painting (two or more coats) with aluminium paint of approved brand and manufacture on new work to give an even shade.	Sqm	81.30
83	Painting (one or more coats) with aluminium paint of approved brand and manufacture on old work to give an even shade.	Sqm	51.10
84	Floor painting (two or more coats) with floor paint of approved brand manufacture of green shade on new work to give an even shade.	Sqm	106.80
85	Floor painting (one or more coats) with floor paint of approved brand manufacture of green shade on old work to give an even shade.	Sqm	67.40
86	Wall painting (two or coats) with plastic emulsion paint of approved brand and manufacture on new work to give an even shade.	Sqm	85.60
87	Wall painting (one or more coats) with plastic emulsion paint of approved brand and manufacture on old work to give an even shade.	Sqm	55.00
88	Varnishing (two or more coats) with Copal Varnish of approved brand and manufacture brand and manufacture on new work including an under coat of flatting varnish with glue sizing.	Sqm	127.60
89	Varnishing (one or more coats) with Copal Varnish of approved brand and manufacture on old work.	Sqm	50.40
90	Varnishing (two or more coats) with superior quality spar varnish of approved brand and manufacture brand and manufacture on new work including an under coat of flatting varnish with glue sizing.	Sqm	135.90
91	Varnishing (one or more coats) with superior quality spar varnish of approved brand and manufacture on old work.	Sqm	55.10
92	Oiling (two or more coats) with raw linseed oil on new work.	Sqm	40.50
93	Oiling (one or more coats) with raw linseed oil on old work.	Sqm	28.30
94	Polishing on wood work with ready mixed superior wax polish of approved brand and manufacture on new work.	Sqm	36.80
95	Polishing on wood work with ready mixed superior wax polish of approved brand and manufacture on old work.	Sqm	43.70
96	Floor polishing on masonry or concrete floors with superior brand and manufacture wax polish of approved brand and manufacture.	Sqm	38.40
97	Painting two or more coats on rain water, soil waste and vent pipes and fittings with black anti-corrosive bituminoustic paint of approve brand and manufacture over a priming coat of ready mixed genuine red lead on new work.		
	a) 75 mm dia	Mtr	27.90
	b) 100 mm dia	Mtr	36.70
	c) 150 mm dia	Mtr	54.70

13. Finishing

Sl. No.	Description	Unit	Rate
98	Painting one or more coats on rain water, soil waste and vent pipes and fittings with black anti-corrosive bituminous paint of approved brand and manufacture on old work.		
	a) 75 mm dia	Mtr	12.50
	b) 100 mm dia	Mtr	16.30
	c) 150 mm dia	Mtr	23.80
99	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with aluminium paint of approved quality over a priming coat of ready mixed genuine red lead on new work.		
	a) 75 mm dia	Mtr	30.90
	b) 100 mm dia	Mtr	40.60
	c) 150 mm dia	Mtr	60.10
100	Painting one or more coats on rain water, soil waste and vent pipes and fittings with aluminium paint of approved quality on old work.		
	a) 75 mm dia	Mtr	14.00
	b) 100 mm dia	Mtr	18.30
	c) 150 mm dia	Mtr	26.70
101	Lettering with black Japan paint of approved brand and manufacture.	Per letter per Cm height	2.40
102	Re-lettering with black Japan paint of approved brand and manufacture.	Per letter per Cm height	1.50
103	Removing old paint or polish with paint remover of approved brand and manufacture and preparing surface.	Sqm	63.40
104	French spirit polishing (two or more coats) including a coat of wood filler on new work.	Sqm	147.30
105	French spirit polishing (one or more coats) on old work.	Sqm	79.00
106	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	31.10
107	Providing two coats of acrylic water based wall putty/ wall filler of Asian Paits/ Berger/ Dulux over concrete/ cement plaster/ brick walls and ceilings both internal and external after removing all the loosely adhering material from the wall/ ceiling surface with the help of emery stone, putty blade or wire brush, moistening the wall with the help of sufficient quantity of clear water as specified and directed by the department.	Sqm	59.90
108	Interior Walls : Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :		
	a) Water thinnable cement primer	Sqm	34.80
109	Interior Walls : Finishing walls with water proofing cement paint of required shade :		
	a) New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	132.60

14. Repair of Buildings

Sl. No.	Description	Unit	Rate
1	Repairs to plaster in patches of 2.50 Sq.m. and under including cutting the patch to proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 m lead.		
	a) With cement mortar 1 : 4 (1 cement : 4 fine sand)	Sqm	261.50
2	Fixing door chowkhat in existing opening including embedding chowkhats in floor, cutting masonry for hold fasts, embedding hold fasts in cement concrete blocks with cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm shingle size), painting two coats of coal tar to sides of chowkhats and making good the damages to wall and floors complete including disposal of rubbish to the dumping ground within 50 m lead.	Each	822.20
3	Fixing window chowkhats in existing openings including cutting masonry for hold fasts, embedding hold fasts in cement concrete blocks with cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm single gauge), painting two coats of coal tar to sides of chowkhats and making good the damage to walls complete including disposal of rubbish to the dumping ground within 50 m lead.	Each	529.60
4	Fixing clerestory window chowkhats in existing openings including cutting masonry for hold fasts, embedding hold fasts in cement concrete blocks with cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm single size), painting two coats of coal tar to sides of chowkhats and making good the damage to walls complete including disposal of rubbish to the dumping ground within 50 m lead.	Each	370.60
5	Providing and fixing wooden cleats to doors and windows with approved fittings including removal of old cleats where necessary including painting, polishing or bees-waxing to match the existing shades.		
	a) 1st class teak wood cleats with iron hinges and screws	Each	44.20
	b) Soft wood cleats with iron hinges and screws	Each	41.50
6	Supplying and fixing glass panes with putty and nails including removal of broken glass panes where necessary.		
	a) Glass panes 2 mm thick and area 0.1 Sq.m. each	Sqm	1002.70
	b) Glass panes 3 mm thick and area 0.1 Sq.m. each	Sqm	1292.20
	c) Frosted Glass panes 2 mm thick and area 0.1 Sq.m. each	Sqm	906.80
7	Supplying and fixing Glass panes with wooden fillets including removal of broken glass panes and old wooden fillets wherever necessary but excluding cost of wooden fillets.		
	a) Glass panes 2 mm thick and area 0.1 Sq.m. each	Sqm	993.70
	b) Glass panes 3 mm thick and area 1 Sq.m. each	Sqm	1283.20
	c) Frosted Glass panes 2 mm thick and area 1 Sq.m. each	Sqm	897.80
8	Supplying and fixing new wooden fillets wherever necessary.		
	a) 1st class wood fillets	Mtr	29.10

14. Repair of Buildings

Sl. No.	Description	Unit	Rate
	b) Soft wood fillets	Mtr	27.50
9	Removal of old putty of glass panes	Mtr	28.60
10	Refixing old glass panes with putty and nails.	Sqm	372.30
11	Fixing old glass panes with old wooden fillets (excluding cost of fillets).	Sqm	288.30
12	Supplying and fixing glass panes with wooden fillets including removal of broken glass panes and old wooden fillets wherever necessary.		
	a) Glass panes 2 mm thick	Sqm	1140.90
	b) Glass panes 3 mm thick	Sqm	1430.30
	c) Frosted glass panes 2 mm thick	Sqm	1045.00
13	Renewing wooden beams (not exceeding 4 m in length) in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete including removal of rubbish to the dumping ground within 50 m lead.		
	a) Timber Plank Class A - IV	10 Cudm	538.70
	b) Soft wooden beams (Class - B I)	10 Cudm	526.80
	c) Soft wooden beams (Class - B II)	10 Cudm	515.30
14	Renewing wooden beams (above 4 metres and upto 5 metres length) in roofs, including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete including disposal of rubbish to the dumping ground within 50 m lead.		
	a) Timber Plank Class A - IV	10 Cudm	563.10
	b) Soft wooden beams (Class - B I)	10 Cudm	553.40
	c) Soft wooden beams (Class - B II)	10 Cudm	544.00
15	Renewing 100 mm dia 2.50 m long sal wood ballie posts embedded 60 cm in the ground in trench 45 cm dia and 75 cm deep filled with cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal gauge) including necessary excavation, cement concrete foundation and painting 2 coats with oil type wood preservative of approved brand and manufacture complete including disposal of rubbish to the dumping ground within 50 m lead.	Each	817.80
16	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 m lead.	Sqm	20.00
17	Raking out joints in lime or cement mortar and preparing the surface for repainting or replastering including disposal of rubbish to the dumping ground within 50 metre lead.	Sqm	26.60
18	Providing and fixing MS fan clamps of standard shape and size in existing RCC slab including cutting chase and making good and painting exposed portion of the clamps complete.	Sqm	235.60

15. Dismantling

Sl. No.	Description	Unit	Rate
1	Demolishing lime concrete and disposal of material within 50 m lead.	Cum	316.50
2	Demolishing cement concrete 1 : 3 : 6 or richer mix including disposal off material within 50 metres lead.	Cum	904.30
3	Demolishing cement concrete 1 : 4 : 8 or leaner mix including disposal of material within 50 m lead.	Cum	558.90
4	Demolishing RCC work including stacking of steel bars and disposal of un-serviceable materials within 50 metres lead.	Cum	1319.20
5	Demolishing RB work including stacking of steel bars and disposal of unserviceable materials within 50 m lead.	Cum	1180.70
6	Extra for cutting reinforcement bars in RCC or RB work.	Sqm	429.20
Note: Reinforced are considering 1% reinforcement = 0.01 Sq.m.			
7	Extra for scrapping, cleaning and straightening reinforcement from RCC or RB work.	Quintal	335.40
Note: 10 Nos, 6 m long 16 mm dia bars with 1.58 Kg/m weight.			
Total weight = 94.80 Kg or 0.948 Quintal			
8	Demolishing brick work in mud mortar including stacking of serviceable material and disposal of unserviceable materials within 50 metres lead.	Cum	262.00
9	Demolishing brick work in lime mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Cum	316.50
10	Demolishing brick work in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Cum	765.80
11	Removing mortar from and cleaning bricks (Stacks of clean bricks shall be measured).		
	a) From brick work in mud mortar	Cum	869.00
	b) From brick work in lime mortar	Cum	999.90
	c) From brick work in cement mortar	Cum	1253.50
12	Dismantling wood work of sectional area 40 Sq.cm. and above wrought, framed and fixed in frames, other frames and trusses including stacking the material within 50 m lead.	Cum	1681.00
13	Dismantling wood work of sectional area below 40 Sq.cm. and above wrought, framed and fixed in frames, other frames and trusses including stacking the material within 50 m lead.	Mtr	6.70
14	Dismantling doors, windows and clerestory windows (steel or wood) shutters including chowkhats, architrave, hold fasts etc complete and sticking within 50 m lead.		
	a) Of area 3 Sq.m. and below	Each	138.10

15. Dismantling

Sl. No.	Description	Unit	Rate
	b) Of area beyond 3 Sq.m.	Each	188.80
15	Taking out doors, windows and clerestory windows shutters (steel or wood) including stacking within 50 m lead.		
	a) Of area 3 Sq.m. and below	Each	53.90
	b) Of area beyond 3 Sq.m.	Each	70.90
16	Dismantling wooden chajjas and sunshades including stacking of serviceable material and disposal of unserviceable material within 50 m lead.	Sqm	54.70
17	Dismantling steel work in single section in RS joists including dismembering and stacking within 50 m lead.	Quintal	122.10
18	Dismantling steel work in single section in channels, angles, tees and flats including dismembering and stacking within 50 m lead.	Quintal	83.10
19	Dismantling steel work in built up section in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc including dismembering and stacking within 50 m lead.	Quintal	206.80
20	Dismantling steel work in built up section excluding dismembering and stacking within 50 m lead.	Quintal	138.80
21	Extra for dismantling trusses, rafters, purlins etc of steel work for every additional span of one metre or part thereof beyond 10 m.	Quintal	31.50
22	Extra for marking structural steel work required to be re-erected.	Quintal	189.00
23	Dismantling the tile work in floors and roofs laid in cement including stacking of materials within 50 m lead.		
	a) For thickness of tiles 10 mm to 25 mm	Sqm	27.60
	b) For thickness of tiles above 25 mm and up to 40 mm	Sqm	42.90
24	Dismantling dry brick pitching in floors, drains etc including stacking of serviceable material and disposal of unserviceable material within 50 m lead.	Cum	489.40
25	Dismantling GI sheet roofing including ridges, hips, valleys and gutters etc and stacking the material within 50 m lead.	Sqm	61.80
26	Dismantling asbestos sheet roofing including ridges, hips, valleys and gutters stacking the material within 50 m lead.	Sqm	28.90
27	Demolishing thatch roofing including mats, bamboo jafri etc complete including stacking of serviceable material and disposal of unserviceable material within 50 m lead.	Sqm	21.40
28	Dismantling ballies in posts, purlins or rafters including stacking within 50 m lead.	Mtr	7.80
29	Dismantling CI or asbestos, rain water pipes with fittings and clamps including stacking the materials within 50 m lead.		

15. Dismantling

Sl. No.	Description	Unit	Rate
	a) 75 mm dia pipe	Mtr	28.10
	b) 100 mm dia pipe	Mtr	29.00
	c) 150 mm dia pipe	Mtr	33.70
30	Dismantling of barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 m lead.	Quintal	1368.40
31	Dismantling wooden trellis work in position excluding frames but including stacking the serviceable material within 50 m lead.	Sqm	33.90
32	Dismantling expanded metal or IRC fabrics in the necessary battens and beading including stacking the serviceable material within 50 m lead.	Sqm	28.20
33	Dismantling wooden boarding in lining of walls and partitions excluding supporting members but including stacking within 50 m lead.		
	a) Up to 10 mm thick	Sqm	22.70
	b) Thickness above 10 mm and up to 25 mm	Sqm	29.00
	c) Thickness above 25 mm and up to 40 mm	Sqm	33.50
34	Dismantling precast concrete or stone slabs in wall, partition walls etc including stacking within 50 m lead.		
	a) Thickness up to 38 mm	Sqm	107.50
	b) Thickness above 38 mm and up to 75 mm	Sqm	161.10
35	Dismantling cement, asbestos, celotax or other ceiling or partition hard board partition wall including stacking of serviceable materials and disposal of unserviceable materials within 50 m lead.	Sqm	21.10
36	Dismantling and stacking within 50 m lead fencing posts or struts including all earth work and dismantling of concrete etc in the base of :		
	a) I or L iron or pipes	Each	81.20
	b) RCC	Each	83.60
37	Cutting ballies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 m lead.	Each	3.70

16. Miscellaneous

Sl. No.	Description	Unit	Rate
1	Supplying at site 1.80 m long RCC standard posts with wooden plugs or 6 mm bar nibs.	Each	1069.70
2	Supplying at site 2 m long RCC standard struts.	Each	614.80
3	1.20 m high fencing with 1.8 m RCC posts of standard design placed every 3 m apart, embedded in cement concrete blocks, corner end and every 10th post to be strutted, provided with 9 horizontal lines and two diagonals of barbed wire 9.38 Kg per 100 m (min) between two posts fitted and fixed with GI staples on wooden plugs tied to 6 mm bar nibs with binding wire (cost of RCC posts, struts, earth work and concrete to be paid for separately).		
	a) GI barbed wire	Mtr	159.70
	b) MS barbed wire	Mtr	159.70
4	Supplying 80 mm to 100 mm minimum dia sal ballies at site in required length.	Mtr	70.70
5	1.20 m high fencing with 1.8 m sal ballie posts 30 cm girth (min) placed every 2.50 m apart, embedded in cement concrete blocks, corner end and every 12th post to be strutted, provided with 6 horizontal lines and two diagonals of barbed wire 9.38 Kg per 100 m (min) between two posts fitted and fixed with GI staples including coal tarring of ballies complete (cost of posts, struts, earth work and concrete to be paid for separately).		
	a) GI barbed wire	Mtr	135.70
	b) MS barbed wire	Mtr	135.70
6	1.80 m high fencing with 2.50 m sal ballie posts 30 cm girth (min) placed every 2.50 m apart, embedded in cement concrete blocks, corner end and every 12th posts to be strutted, provided with 9 horizontal lines and two diagonals of barbed wire 9.38 Kg per 100 m (min) between two posts fitted and fixed with GI staples including coat tarring of ballies complete (cost of posts, struts, earth work and concrete to be paid for separately).		
	a) GI barbed wire	Mtr	186.00
	b) MS barbed wire	Mtr	186.00
7	2.40 m high fencing with 3.30 m sal ballies posts 30 cm girth (min) placed every 2.50 m apart, embedded in cement concrete blocks, corner end and every 12th posts to be strutted, provided with 12 horizontal lines and two diagonals of barbed wire 9.38 Kg per 100 m (min) between two posts fitted and fixed with GI staples including coal tarring of ballies complete (cost of posts, struts, earth work and concrete to be paid for separately).		
	a) GI barbed wire	Mtr	237.30
	b) MS barbed wire	Mtr	237.30
8	1.20 m high welded steel wire fencing with 1.80 m RCC posts of standard design placed at every 3 m apart embedded in cement concrete blocks 45 x 45 x 60 cm of mix 1 : 5 : 10 (1 cement : 5 fine sand : 10 stone aggt. 40 mm nominal size), corner end and every 10th post to be strutted and embedded in cement concrete blocks of 70 x 45 x 50 cm of same mix provided with welded steel wire fabric 0.90 m wide, rectangular mesh 75 x 25 mm size weighing not less than 7.75 kg per Sq.m. fixed between the two posts fitted and fixed with GI staples on wooden plugs or tied to 6 mm bar nibs with binding wire including earth work in excavation, concrete work and cost of posts, struts etc complete.	Mtr	1367.10

16. Miscellaneous

Sl. No.	Description	Unit	Rate
9	Making plinth protection 50 mm thick of cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 stone aggregate using 20 mm nominal size) over 75 mm bed of stone ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	Sqm	512.10
10	Brick edging 7.50 cm wide and 12.50 cm deep to plinth protection with 2nd class bricks including grouting with cement mortar 1 : 4 (1 cement : 4 fine sand).	Mtr	80.00
11	Making plinth protection with 2nd class bricks on edge in cement mortar 1 : 6 (1 cement : 6 fine sand) over 7.50 cm bed of dry bricks aggregate 40 mm nominal size rammed consolidated and grouted with fine sand and the top of bricks pointed with cement mortar 1 : 2 (1 cement : 2 fine sand).	Sqm	1192.90
12	Finishing edges of cement concrete sunk floors plastered with cement mortar 1 : 2 (1 cement : 2 coarse sand) including rounding the same and finished even and smooth with a floating coat of neat cement.	Mtr	40.40
13	Finishing edges of mosaic sunk floor plastered with cement mortar 1 : 2 (1 cement : 2 coarse sand) round the same and providing top 6 mm layer of marble chips mixed with cement and pigment finished to required curve and polishing etc complete.		
	a) Dark shades pigment with ordinary cement	Mtr	96.30
	b) Light shade pigment with white cement	Mtr	109.30
	c) Medium shade pigment with 50% white and 50% ordinary cement	Mtr	102.60
14	Providing and fixing 25 mm dia GI pipe outlet in cement mortar 1 : 3 (1 cement : 3 fine sand) including cutting and making good the wall.	Mtr	601.90
15	Providing and fixing 40 mm dia GI Pipe outlet in cement mortar 1 : 3 (1 cement : 3 fine sand) including cutting and making good the wall.	Mtr	684.70
16	Providing and fixing 10 cm dia flue of cement asbestos pipe with necessary specials including fixing in position with iron clamps complete.	Mtr	314.50
17	Providing and fixing peg rack 75 x 10 x 2 cm thick of best available local wood with three hard wood pegs of approved design.	Each	184.90
18	Providing chases 75 mm wide 50 mm deep (average size) in walls for conduit pipe and filling the same with cement concrete 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm and down size) after the conduct pipe is laid (excluding the cost of conduit pipe).	Mtr	74.30
19	Providing and fixing 25 x 25 x 1.50 mm angle iron or 25 x 3 mm tread plate to RCC steps.	Mtr	152.50
20	Construction of 2nd class brick masonry chullah 0.75 x 0.45 x 0.25 m with two holes in cement mortar 1 : 6 (1 cement : 6 coarse sand) including fixing iron gratings 150 mm dia and finishing with mud and gobri plaster complete.	Each	622.90
21	Providing and fixing one layer of champa kampa tarja wall with split bamboo (tarja) 75 mm wide and bamboo battens of 40 mm wide including tying with GI wire complete as per drawing and as directed by the Engineer-in-Charge (opening for doors and windows not to be deducted).	Sqm	499.70

16. Miscellaneous

Sl. No.	Description	Unit	Rate
22	Providing and fixing one layer of champa kampa tarja wall with split bamboo (tarja) 75 mm wide and bamboo battens of 40 mm wide including one layer of dhari lining and tying with GI wire complete as per drawing and as directed by the Engineer-in-Charge (opening for doors and windows not to be deducted).	Sqm	520.50
23	Providing and fixing muli bamboo tarja walling plain woven with split bamboo (tarja) 75 mm wide and bamboo battens of 40 mm wide including tying with GI wire complete as per drawing and as directed by the Engineer-in-Charge (opening for doors and windows not to be deducted).	Sqm	276.00
24	Providing and fixing double layer dhari mat walling strengthened with split bamboo battens 40 mm wide including tying with GI wire complete as per drawing and as directed by the Engineer-in-Charge.	Sqm	176.00
25	Providing and fixing muli bamboo jafri including tying with GI wire complete as per drawing and as directed by Engineer-in-Charge.	Sqm	165.00
26	Providing and fixing muli bamboo compound fencing plain woven with split bamboo (tarja) 75 mm wide and bamboo battens of 40 mm wide including tying with GI wire complete as directed by Engineer-in-Charge.	Sqm	239.80
27	Providing and fixing whole muli bamboo walling with muli bamboo 40 mm dia placed closely including bamboo battens tied with GI wire complete as per drawing and as directed by Engineer-in-Charge.	Sqm	391.20
28	Providing and fixing jhap door (1.8 x 0.90 m) for compound fencing or for house with double layer dhari and jafri including split bamboo frames fitted and fixed with GI wire complete as per drawing and as directed by Engineer-in-Charge.	Each	828.00
29	Providing and fixing jhap window (0.90 x 0.75 m) with double layer dhari and jafri including split bamboo frames fitted and fixed with GI wire complete as per drawing and as directed by Engineer-in-Charge.	Each	414.00
30	Providing and fixing whole muli bamboo machan with barak bamboo 75 mm dia to 100 mm dia posts and runners tied with coir rope complete with one layer of champa kampa tarja matting as per drawing and directed by Engineer-in-Charge.	Sqm	917.70
31	Providing and fixing Barak bamboo 75 mm dia to 100 mm dia posts, posts plates, ties, king posts etc tied with coir rope.	Mtr	24.90
32	Coir rope laska ties (for independent work only) 6 ply	Each	10.30
33	Leaping wall, floor and plinth with mud mixed with cowdung.	Sqm	21.10
34	Providing and fixing third class local wood such as awal, neur, kata kuri, kurta and ramdala ballies (dressed) in posts, purlins, rafters, post plates etc including cost of nails and spikes as required and applying wood preservative paint on all exposed surfaces.		
	a) 100 mm dia	Mtr	100.20
	b) 125 mm dia	Mtr	112.00
	c) 150 mm dia	Mtr	126.30
35	Renewing muli bamboo battens 40 mm wide for tarja wall, compound fencing, jafri etc including removal of old battens as directed by the Engineer-in-Charge.	Mtr	7.40
36	Renewing muli bamboo roof frames with new muli bamboo including removing old sungrass or single dhari lining etc including tying with GI wire where necessary.	Sqm	143.70

16. Miscellaneous

Sl. No.	Description	Unit	Rate
37	Repairs to thatching with new sungrass (superior quality) including tying with GI wire complete as directed.	Sqm	27.60
38	Providing and fixing local wooden railing 0.75 m high with 7.5 x 5 cm top and bottom rails 7.5 x 5 cm sides and 5 cm x 5 cm intermediate vertical bars placed at 22.5 cm centre to centre including painting two or more coats as directed.	Mtr	1248.90
39	Providing and fixing soft wood 'EVE' board 25 mm thick and 225 mm wide including painting two coats complete as directed.	Mtr	368.70
40	Providing and fixing 30 mm thick approved local wood (Class - B I) shelves 30 cm wide complete with wooden brackets not more than 1.52 m.	Mtr	1015.40
41	Providing and fixing 38 mm thick (Class - B I) approved local wood shelves 38 cm wide complete with wooden brackets not more than 1.52 m.	Mtr	1184.10
42	Providing and approved local wood (Class - B I) ventilating louvers or sun shade with 75 x 38 mm framed and 152 x 12.5 mm thick shutters complete.	Sqm	2889.90
43	Providing and fixing local wood (Class - B I) skirting (plain) 23 cm deep 25 mm thick including fixing with necessary fittings complete.	Mtr	419.90
44	Providing and fixing approved local wood (Class - B I) railing 91 cm high with 38 mm x 38 mm wooden bars at 10 cm centre to centre complete with top and bottom rails 89 mm x 51 mm complete.	Mtr	1425.00
45	Providing and fixing wooden step of approved local wood (Class - B I) 38 mm thick for 61 cm high plinth with 30 cm tread and 15 cm rise complete.	Mtr	3457.10
46	Providing and fixing wooden steps of approved local wood (Class - B I) 35 cm thick for 61 cm high plinth with 23 cm tread and 15 cm rise complete.	Mtr	2535.30
47	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. a) Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble (Area of slab over 0.50 sqm)	Sqm	2029.50
48	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. a) Marble work	Sqm	169.60
49	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	426.90
50	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : a) Kitchen sink with drain board i) 510x1040 mm bowl depth 250 mm	each	4328.30

17. Drainage

Sl. No.	Description	Unit	Rate
1.	Construction of cement concrete drain 15 cm wide and 15 cm deep in cement concrete 1 : 3 : 6 (1 cement : 3 sand : 6 hard graded stone chips or shingle 40 mm and down gauge) 8 cm thick on sides and bottom and plastering and all exposed surfaces with 12 mm thick cement mortar 1 : 3 (1 cement : 3 coarse sand) including shuttering complete.	Mtr	458.60
2	Construction of cement concrete drain 30 cm wide and 23 cm deep in cement concrete 1 : 3 : 6 (1 cement : 3 sand : 6 hard graded stone chips/shingle 40 mm and down gauge) 8 cm thick on sides and bottom and plastering on all exposed surfaces with 12 mm thick cement mortar 1 : 3 (1 cement : 3 fine sand) including shuttering complete.	Mtr	637.80
3	Making kutchra drain up to 30 cm wide and 23 cm deep in all soils including dressing removal of surplus earth and making proper gradient.	Mtr	23.30
STONE WARE PIPE :			
4	Providing laying and jointing glazed stone ware pipe grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.		
	a) 100 mm dia SW pipes	Mtr	477.00
	b) 150 mm dia SW pipes	Mtr	632.40
	c) 200 mm dia SW pipes	Mtr	835.60
5	Providing and laying cement concrete 1 : 5 : 10 (1 cement : 5 lime sand : 10 graded stone aggregate 40 mm nominal size) all around SW Pipe including bed concrete 15 cm thick as per standard design.		
	a) 100 mm dia SW pipes	Mtr	782.70
	b) 150 mm dia SW pipes	Mtr	838.60
	c) 200 mm dia SW pipes	Mtr	963.40
RCC NON PRESSURE (NP2) PIPES :			
6	Providing and Layng light duty non-pressure NP2 Class RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 Cement : 2 fine sand) including testing joints etc complete.		
	a) 100 mm dia RCC Pipes (NP2)	Mtr	457.80
	b) 150 mm dia RCC Pipes (NP2)	Mtr	599.00
	c) 250 mm dia RCC Pipes (NP2)	Mtr	882.10
	d) 300 mm dia RCC Pipes (NP2)	Mtr	1162.50

17. Drainage

Sl. No.	Description	Unit	Rate
7	Providing and laying light duty non-pressure NP2 class RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1 : 2 (1 cement : 2 fine sand) including testing joints etc complete.		
	a) 450 mm dia RCC pipes (NP2)	Mtr	2450.00
	b) 600 mm dia RCC pipes (NP2)	Mtr	3493.10
	c) 700 mm dia RCC pipes (NP2)	Mtr	3651.10
	d) 900 mm dia RCC pipes (NP2)	Mtr	5508.60
	e) 1000 mm dia RCC pipes (NP2)	Mtr	6101.20
8	Constructing brick masonry manhole with 2nd class bricks in cement mortar 1 : 5 (1 cement : 5 fine sand) RCC top slab with 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 stone single 20 mm nominal size), foundation concrete 1 : 4 : 8 mix (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1 : 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) neatly finished complete as per standard design.		
	a) Inside size 90 x 80 cm and 45 cm deep including CI cover with frame (light duty) 455 x 610 mm internal dimensions total weight of cover and frame to be not less than 38 Kg (weight of cover and frame to be not less than 38 kg, (weight of cover 23 Kg and weight of frame 15 Kg).	Each	11933.30
9	Making soak pit 2.50 m dia 3 m deep with 45 x 45 cm dry brick honeycomb shaft and SW drain pipe 100 mmdia 1.80 m long complete as per standard design.	Each	40672.10
10	Construction of soak pit 1.2 x 1.1 x 1.2 m filled with brick bats including SW drain pipe 100 mm dia and 1.20 m long complete as per standard design.	Each	5289.70

18. Water Supply

Sl. No.	Description	Unit	Rate
1	Providing and fixing GI pipes complete with GI fittings and clamps including cutting and making good the walls (internal work).		
	a) 15 mm nominal bore	Mtr	250.40
	b) 20 mm nominal bore	Mtr	291.00
	c) 25 mm nominal bore	Mtr	357.10
	d) 32 mm nominal bore	Mtr	403.00
	e) 40 mm nominal bore	Mtr	498.10
	f) 50 mm nominal bore	Mtr	640.30
2	Providing and fixing GI pipes complete with GI fittings including trenching and refilling etc (external work).		
	a) 15 mm nominal bore	Mtr	218.70
	b) 20 mm nominal bore	Mtr	248.40
	c) 25 mm nominal bore	Mtr	306.30
	d) 32 mm nominal bore	Mtr	336.10
	e) 40 mm nominal bore	Mtr	401.10
	f) 50 mm nominal bore	Mtr	502.80
	g) 65 mm nominal bore	Mtr	635.40
	h) 80 mm nominal bore	Mtr	792.60
	i) 100 mm nominal bore	Mtr	1160.20
	j) 150 mm nominal bore	Mtr	2067.90
3	Providing and fixing brass bib cock of approved quality.		
	a) 15 mm nominal bore	Each	313.00
	b) 20 mm nominal bore	Each	336.60
	c) 25 mm nominal bore	Each	345.50
4	Providing and fixing brass full way valve with wheel of approved quality.		
	a) 32 mm nominal bore	Each	767.60
	b) 40 mm nominal bore	Each	1262.00
	c) 50 mm nominal bore	Each	1874.30
	d) 65 mm nominal bore	Each	2227.00
	e) 80 mm nominal bore	Each	3973.10

18. Water Supply

Sl. No.	Description	Unit	Rate
	f) 100 mm nominal bore	Each	5902.60
5	Providing and fixing brass stop cock of approved quality.		
	a) 15 mm nominal bore	Each	313.00
	b) 20 mm nominal bore	Each	416.60
	c) 25 mm nominal bore	Each	345.50
	d) 32 mm nominal bore	Each	556.90
	e) 40 mm nominal bore	Each	1262.10
	f) 50 mm nominal bore	Each	1873.90
6	Providing and fixing PVC connection pipe with brass union.		
	A) 30 cm length		
	a) 15 mm nominal bore	Each	109.00
	b) 20 mm nominal bore	Each	186.00
	B) 45 cm length		
	a) 15 mm nominal bore	Each	89.20
	b) 20 mm nominal bore	Each	133.90
7	Providing and fixing non-return valve of approved quality.		
	a) 25 mm nominal bore	Each	492.90
	b) 32 mm nominal bore	Each	684.50
	c) 40 mm nominal bore	Each	974.30
	d) 50 mm nominal bore	Each	1524.90
	e) 65 mm nominal bore	Each	2453.70
	f) 80 mm nominal bore	Each	4305.50
8	Providing and fixing CP brass shower rose with 15 mm or 20 mm dia inlet.		
	a) 100 mm dia	Each	494.90
	b) 150 mm dia	Each	753.00
9	Providing and fixing ball valve (brass) of approved quality complete.		
	A) High pressure with copper floats		
	a) 15 mm nominal bore	Each	428.30
	b) 20 mm nominal bore	Each	583.10

18. Water Supply

Sl. No.	Description	Unit	Rate
	B) Low pressure with copper floats		
	a) 15 mm nominal bore	Each	428.30
	b) 20 mm nominal bore	Each	575.90
	c) 25 mm nominal bore	Each	880.80
	C) High or Low pressure with polythene floats		
	a) 15 mm nominal bore	Each	120.50
	b) 20 mm nominal bore	Each	138.40
	c) 25 mm nominal bore	Each	192.00
10	Providing and fixing normal gauge HD polythene pipes of approved quality/complete with special flange compression type fittings (of approved make) including trenching and refilling etc (external work).		
	a) 25 mm nominal bore	Mtr	143.10
	b) 32 mm nominal bore	Mtr	190.30
	c) 40 mm nominal bore	Mtr	269.90
	d) 50 mm nominal bore	Mtr	391.60
11	Providing and fixing normal gauge HD polythene pipes of approved quality complete with appropriate fittings including cutting and making good walls etc (internal work).		
	a) 20 mm nominal bore	Mtr	128.90
	b) 25 mm nominal bore	Mtr	173.40
	c) 32 mm nominal bore	Mtr	295.00
	d) 40 mm nominal bore	Mtr	370.50
12	Painting G.I. pipes and fittings with white paint over a coat of ready mixed priming coat both of approved quality for new work.		
	a) 15 mm dia pipe	Mtr	7.40
	b) 20 mm dia pipe	Mtr	9.50
	c) 25 mm dia pipe	Mtr	12.20
	e) 40 mm dia pipe	Mtr	19.10
	f) 50 mm dia pipe	Mtr	23.20
	g) 65 mm dia pipe	Mtr	29.80
	h) 80 mm dia pipe	Mtr	36.00
	i) 100 mm dia pipe	Mtr	44.90

18. Water Supply

Sl. No.	Description	Unit	Rate
	j) 150 mm dia pipe	Mtr	65.50
13	Repainting GI pipes and fitting with white paint of approve quality.		
	a) 15 mm dia pipe	Mtr	3.60
	b) 20 mm dia pipe	Mtr	4.60
	c) 25 mm dia pipe	Mtr	5.80
	d) 32 mm dia pipe	Mtr	7.20
	e) 40 mm dia pipe	Mtr	9.00
	f) 50 mm dia pipe	Mtr	10.90
	g) 65 mm dia pipe	Mtr	14.10
	h) 80 mm dia pipe	Mtr	17.00
	i) 100 mm dia pipe	Mtr	21.10
	j) 150 mm dia pipe	Mtr	30.60
14	Painting GI pipes and fitting with two coats of anti corrosive bitumastic paint of approved quality.		
	a) 15 mm dia pipe	Mtr	4.00
	b) 20 mm dia pipe	Mtr	5.10
	c) 25 mm dia pipe	Mtr	6.40
	d) 32 mm dia pipe	Mtr	8.00
	e) 40 mm dia pipe	Mtr	9.90
	f) 50 mm dia pipe	Mtr	12.10
	g) 65 mm dia pipe	Mtr	15.50
	h) 80 mm dia pipe	Mtr	18.90
	i) 100 mm dia pipe	Mtr	23.40
	j) 150 mm dia pipe	Mtr	34.30
15	Providing and filling sand all round GI pipes in external work.		
	a) 15 mm dia pipe	Mtr	61.70
	b) 20 mm dia pipe	Mtr	62.60
	c) 25 mm dia pipe	Mtr	64.20
	d) 32 mm dia pipe	Mtr	65.90

18. Water Supply

Sl. No.	Description	Unit	Rate
	e) 40 mm dia pipe	Mtr	66.70
	f) 50 mm dia pipe	Mtr	69.20
	g) 65 mm dia pipe	Mtr	109.30
	h) 80 mm dia pipe	Mtr	113.50
	i) 100 mm dia pipe	Mtr	121.00
	j) 150 mm dia pipe	Mtr	138.10

CPVC PIPES

- 16 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.
- a) Internal work - Exposed on wall
- | | | |
|-----------------------------------|-----|--------|
| (i) 15 mm nominal outer dia Pipes | Mtr | 160.70 |
| b) 20 mm nominal outer dia Pipes | Mtr | 215.60 |
| c) 25 mm nominal outer dia Pipes | Mtr | 274.10 |
| d) 32 mm nominal outer dia Pipes | Mtr | 368.80 |
| e) 40 mm nominal outer dia Pipes | Mtr | 503.00 |
| f) 50 mm nominal outer dia Pipes | Mtr | 742.40 |
- 17 Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.
- Mtr 87.20
- 18 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.
- a) Concealed work, including cutting chases and making good the walls etc.
- | | | |
|------------------------------------|-----|--------|
| i) 15 mm nominal outer dia Pipes | Mtr | 267.40 |
| ii) 20 mm nominal outer dia Pipes | Mtr | 331.70 |
| iii) 25 mm nominal outer dia Pipes | Mtr | 410.50 |
| iv) 32 mm nominal outer dia Pipes | Mtr | 520.50 |
- 19 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.
- a) External work

18. Water Supply

Sl. No.	Description	Unit	Rate
	i) 15 mm nominal outer dia Pipes	Mtr	141.40
	ii) 20 mm nominal outer dia Pipes	Mtr	189.20
	iii) 25 mm nominal outer dia Pipes	Mtr	253.40
	iv) 32 mm nominal outer dia Pipes	Mtr	335.20
	v) 40 mm nominal outer dia Pipes	Mtr	446.80
	vi) 50 mm nominal outer dia Pipes	Mtr	686.30
	vii) 62.5 mm nominal outer dia Pipes	Mtr	1387.10
	viii) 75 mm nominal outer dia Pipes	Mtr	1775.60
	ix) 100 mm nominal outer dia Pipes	Mtr	2517.00
	x) 150 mm nominal outer dia Pipes	Mtr	5324.20
20	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.		
	a) Internal work - Exposed on wall		
	i) 15 mm nominal outer dia Pipes	Mtr	208.40
	ii) 20 mm nominal outer dia Pipes	Mtr	257.40
	iii) 25 mm nominal outer dia Pipes	Mtr	339.10
	iv) 32 mm nominal outer dia Pipes	Mtr	415.20
	v) 40 mm nominal outer dia Pipes	Mtr	495.00
	vi) 50 mm nominal outer dia Pipes	Mtr	609.20
21	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.		
	a) 15 mm nominal bore	Each	592.30
22	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.		
	a) 15 mm nominal bore	Each	528.30
23	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.		
	a) 15 mm nominal bore	Each	577.40
24	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931		
	a) 15 mm nominal bore	Each	507.40
25	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Litre	8.60

19. Sanitary Installation

Sl. No.	Description	Unit	Rate
1	Providing and fixing white vitreous china water closet squatting pan (Indian type WC pan) size 580 mm with 100 mm and sand cast iron P or S trap, 12.5 Litre high level CI flushing cistern (of approved make) with fittings RS or CI brackets, 32 mm dia galvanized steel telescopic flush pipe with fittings and clamps 20 mm GI over flow pipe with specials and mosquito proof coupling of approved municipal design and GI chain and pull complete including painting of cistern and fittings, cutting and making good the walls and floors where required.		
	a) Long Pan patten WC Pan	Each	8587.70
	b) Orissa Pattern WC Pan	Each	7466.60
2	Providing and fixing white vitreous china type water closet pedestal (European type WC pan) with seat and lid CP brass hinges and rubber buffers, 12.5 Litres high level CI flushing cistern with fittings RS or CI brackets, galvanized steel telescopic flush pipe with fittings and clamps, 20 GI overflow pipe with specials and mosquito proof coupling of approved municipal design and GI chain and pull complete including painting of cistern and fittings, cutting making good the walls and floors where required.		
	a) WC pan with white plastic seat and lid.	Each	9498.90
3	Providing and fixing white vitreous china pedestal type (European type WC pan) water closet with seat and lid with CP brass hinges and rubber buffers, 12.5 Litres white vitreous china low-level flushing cistern with fittings and brackets 40 mm white porcelain in enamel led flush band, 20 mm over flow pipe with specials and mosquito proof coupling of approved municipal design complete including cutting and making good the walls and floors where required.		
	a) WC pan with white plastic seat and lid.	Each	8728.50
4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x430x265 mm sizes respectively with CI automatic flushing cistern with fittings, RS or CI brackets standard size galvanized steel flush pipe and spreaders with brass unions and GI clamps complete including painting of cistern and fittings, cutting and making good the walls and floors where required.		
	a) One urinal basin with 5 Litres CI automatic flushing cistern	Each	4103.00
	b) Range of two urinals with 10 Litre CI automatic flushing cistern	Each	6120.00
	c) Range of three urinals with 12.5 Litre CI automatic flushing cistern	Each	7934.80
	d) Range of four urinals with 15 Litre CI automatic flushing cistern	Each	10321.80
5	Providing and fixing white vitreous china wash basin with RS or CI brackets painted white 15 mm CP brass pillar taps and CP brass chain with rubber plug 32 mm CP brass waste of standard pattern, 32 mm dia CP brass trap and MI unions complete, including cutting and making good the walls where required.		
	a) Flat back wash basin size 550x400 mm with a pair of 15 mm CP brass pillar taps of heavy quality.	Each	4082.40
	b) Flat back wash basin size 550x400 mm with single 15 mm CP brass pillar taps of heavy quality.	Each	3643.80

19. Sanitary Installation

Sl. No.	Description	Unit	Rate
6	Plugging the hole of wash hand basin if a pillar tap is not to be provided.	Each	43.20
7	Deduct for not providing 32 mm dia MI or CP brass trap.	Each	340.00
8	Deduct for not providing 32 mm dia MI union.	Each	176.50
9	Providing and fixing white vitreous china water closet squatting pan size 580 mm size.		
	a) Long pattern (Indian type) WC Pan	Each	1643.90
	b) Orissa type WC pan	Each	2038.00
10	Providing and fixing white vitreous china pedestal type (European type) WC pan.	Each	3159.10
11	Providing and fixing a pair of white vitreous china foot rest of standard pattern for squatting pan WC.		
	a) 250 x 130 x 30 mm	Pair	250.70
	b) 250 x 125 x 25 mm	Pair	250.70
12	Providing and fixing 12.5 litres high level CI flushing cistern of approved make with integral fittings such as ball valve, bell, lever, G chain and pull complete.	Each	1511.00
13	Providing and fixing 5 litres CI automatic flushing cistern with fittings.	Each	1113.00
14	Providing and fixing polished teak wood or mahogany seat for pedestal type WC pan with CP brass hinges, buffers etc complete.		
	a) With lid	Each	146.60
	b) Without lid	Each	124.40
15	Providing and fixing plastic seat with lid for pedestal type WC pan with CP Brass hinges rubber buffers etc complete.		
	a) White plastic seat with lid	Each	842.70
	b) Black plastic seat with lid	Each	347.90
16	Providing and fixing kitchen sink including making all connection excluding cost of fittings.		
	a) White glazed fire clay sink size 600x450x150 mm	Each	2638.00
17	Providing and fixing Laboratory sink including making all connection excluding cost of fittings.		
	a) White vitreous china sink 600x400x200 mm	Each	4922.20
18	Providing and fixing CP Brass Chain and rubber plug complete for sink or wash basins.	Each	189.60
19	Providing and fixing rubber plug for sink or wash basin.	Each	74.90

19. Sanitary Installation

Sl. No.	Description	Unit	Rate
20	Providing and fixing CP brass waste for wash basins and sinks.		
	a) 32 mm dia	Each	135.00
	b) 40 mm dia	Each	180.50
21	Providing and fixing MI fisher union for wash basin and sinks.		
	a) 32 mm dia	Each	184.50
	b) 40 mm dia	Each	279.20
22	Providing and fixing CP Brass or MI trap for wash basin and sinks.		
	a) 32 mm dia	Each	353.30
	b) 40 mm dia	Each	382.40
23	Providing and fixing 100 mm sand cast iron grating for gulley, floors or nahni trap.	Each	95.10
24	Providing and fixing in position 32 mm dia galvanized steel telescopic flush pipe complete including cutting and making good the walls and floors.	Each	596.60
25	Providing and fixing in position 25 mm dia mosquito proof coupling of approved municipal design.	Each	1068.20
TOILET REQUISITES :			
26	Providing and fixing 600x450 mm bevelled edge mirror or superior glass (of approved quality) complete with 6 mm thick asbestos sheet ground fixed to wooden cleadt with CP brass screws and washers.	Each	1203.90
27	Providing and fixing 600 x 120 mm glass shelf with CP brass brackets and guard rail complete, fixed to wooden cleadts with CP brass screws.	Each	1584.80
28	Providing and fixing CP brass towel rail complete with CP brass brackets fixed to wooden cleadt with CP brass screws (heavy quality).		
	a) 750 x 20 mm size	Each	708.90
29	Providing and fixing toilet paper holder.		
	a) CP Brass	Each	946.20
	b) Polished wooden	Each	750.50
30	Providing best available local wood 50 x 50 x 50 mm wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand).	Each	16.60
31	Providing and fixing sand cast iron/ cast iron (spun) soil, waste and vent pipes.		
	a) 100 mm dia	Mtr	1058.00
	b) 75 mm dia	Mtr	874.90

19. Sanitary Installation

Sl. No.	Description	Unit	Rate
	c) 50 mm dia	Mtr	785.00
32	Providing and fixing sand cast iron heel rest sanitary bend.		
	a) 100 mm dia	Each	395.70
	b) 75 mm dia	Each	359.90
	c) 50 mm dia	Each	328.80
33	Providing and fixing sand cast iron single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.		
	a) 100 x 100 x 100 mm	Each	588.50
	b) 80 x 80 x 80 mm	Each	496.10
	c) 50 x 50 x 50 mm	Each	389.30
34	Providing and fixing sand cast iron single equal plain junction of required degree.		
	a) 100 x 100 x 100 mm	Each	468.00
	b) 80 x 80 x 80 mm	Each	465.60
	c) 50 x 50 x 50 mm	Each	105.10
SAND CAST IRON TRAP :			
35	Providing and fixing sand cast iron trap of self cleadsing design with sand cast iron screwed down or hinged grating with or without vent arm complete including cost of cutting and making good the walls and floors.		
	a) 100 mm inlet and 100 mm outlet	Each	900.50
	b) 100 mm inlet and 75 mm outlet	Each	804.70
	c) 100 mm inlet and 50 mm outlet	Each	720.20
ASBESTOS CEMENT, SOIL, WASTE AND VENT PIPES AND FITTINGS :			
36	Providing and fixing on wall face asbestos cement soil, waste and vent pipes including jointing with spun yarn soaked in bitumen and cement mortar 1 : 2 (1 cement : 2 coarse sand) complete.		
	a) 100 mm dia	Mtr	528.20
	b) 80 mm dia	Mtr	483.50
	c) 50 mm dia	Mtr	468.50
37	Cutting chase in brick masonry walls for fixing 100 mm dia sand cast iron pipes and making good the same with brick work in cement mortar 1 : 3 (1 cement : 3 fine sand).	Mtr	341.60

19. Sanitary Installation

Sl. No.	Description	Unit	Rate
38	Cutting chase in brick masonry walls for fixing 50 mm dia sand cast iron pipes and making good the same with brick work in cement mortar 1 : 3 (1 cement : 3 fine sand).	Mtr	155.50
PAINTING OF SANITARY FITTINGS :			
39	Painting CI cistern with bitumastic or any other anticorrosive paint inside and white paint over a coat of ready mixed primer (of approved quality) on the out side surface of the cistern, flush pipe other fittings etc complete for new work.	Each	499.60
40	Re-painting CI cistern with bitumastic or any other anticorrosive paint inside and white paint on the out side surface of the cistern, flush pipe other fittings etc complete including polishing of wooden seat and lid and cleadning of WC pan with acid wherever necessary.	Each	311.20
41	Applying priming coat with ready mixed redoxide or zinc chromate paint of approved quality and manufacture on steel work.	Sqm	33.50
42	Painting two or more coats (excluding priming coat)with ordinary ready mixed paint of approved brand and manufacture in all shades except white or green on new work to give an even shade.	Sqm	97.30
43	Painting sand cast iron soil spun soil waste vent pipes and fittings with paint of any color such as chocolate, grey or buff etc over a coat of primer (of approved quality) for new work.		
	a) 50 mm dia pipe	Mtr	18.80
	b) 100 mm dia pipe	Mtr	36.50
44	Re-painting sand cast iron soil, waste, vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc.		
	a) 50 mm dia pipe	Mtr	10.50
	b) 100 mm dia pipe	Mtr	20.90
45	Re-painting bath tubs 170 cm long with enamel paint.	Mtr	490.00
46	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :		
	a) Kitchen sink with drain board		
	i) 510x1040 mm bowl depth 250 mm	Each	4328.30
47	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.		
	a) 10 litre capacity - White	Each	857.40
48	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	Each	118.10
49	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	843.00

19. Sanitary Installation

Sl. No.	Description	Unit	Rate
50	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.		
	a) 15 mm nominal dia	Each	5766.20
51	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.		
	a) Semi rigid pipe		
	i) 32 mm dia	Each	96.20
	ii) 40 mm dia	Each	106.20
	b) Flexible pipe		
	i) 32 mm dia	Each	108.70
	ii) 40 mm dia	Each	115.00
52	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	Each	43.50
53	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :		
	a) Circular shape 450 mm dia	Each	932.80
	b) Rectangular shape 453x357 mm	Each	818.40
	c) Oval shape 450x350 mm (outer dimensions)	Each	879.80
	d) Rectangular shape 1500x450 mm	Each	1480.00
54	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :		
	a) W.C. pan with ISI marked white solid plastic seat and lid	Each	4015.60
55	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:		
	a) White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	4199.80

20. Aluminium Work

Sl. No.	Description	Unit	Rate
1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately) : For fixed portion.		
1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade SC 15)	kg	488.10
1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron).	kg	524.90
1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	534.00
2	For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).		
2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	559.80
2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron).	kg	597.30
2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron).	kg	606.70
3	Providing and fixing 12mm thick Pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.		
3.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	sqm	1287.90
3.2	Pre-laminated particle board with decorative lamination on both side.	sqm	1349.10
4	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item)		
4.1	With float glass panes of 4.0 mm thickness.	sqm	1037.40
4.2	With float glass panes of 5.5 mm thickness.	sqm	1292.30
4.3	With float glass panes of 8 mm thickness.	sqm	1645.00
5	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee/ angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/stainless steel sunk screws, aluminium perimeter angles fixed to wall with rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6 mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-charge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).	kg	643.40

20. Aluminium Work

Sl. No.	Description	Unit	Rate
6	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200mm length) fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60mm long and expansion hold fasteners 12.5 mm dia. 40mm long complete as per direction of Engineer -in-Charge.	each	131.40
7	Filling the gap in between aluminium frame & adjacent RCC/ Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete upto 5 mm depth and 5 mm width.	mtr.	110.80
8	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-incharge complete.		
8.1	205 X 19 mm.	each	283.10
8.2	255 X 19 mm.	each	341.40
8.3	355 X 19 mm.	each	436.20
8.4	510 X 19 mm.	each	756.80
8.5	710 X 19 mm.	each	1361.50
9	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.		
9.1	Anodized (AC 15) aluminium tubular handle bar.	each	675.00
9.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	each	732.20
9.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar.	each	746.50
10	Providing and fixing 100 mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	493.60
11	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS:1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).	kg	451.90
12	Providing and fixing aluminium round shape handle of outer dia 100 mm with SSscrews etc. complete as per direction of Engineer-in-Charge.		
12.1	Anodized (AC 15) aluminium	each	81.20
12.2	Powder coated minimum thickfness 50 micron aluminium.	each	89.90
12.3	Polyester powder coated minimum thickness 50 micron aluminium.	each	95.70
13	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	kg	489.40

21. PVC & uPVC Work

Sl. No.	Description	Unit	Rate
1	Door /Window / Ventilator Frames:- Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticalssides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer- in-charge.	Metre	530.70
2	PVC Door Frames:- Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	Metre	407.90
3	Entry / Exit Door Shutters :- Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be einforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.	Sq.m	3183.80
4	Flush Door Shutters:- Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		
	a) 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sq.m	2660.20

21. PVC & uPVC Work

Sl. No.	Description	Unit	Rate
5	<p>Bed & Other Door Shutters:- Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 5mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.</p>		
	a) 30 mm thick plain PVC door shutters	Sq.m	2154.80
6	<p>Kitchen / Other Door Shutters:- 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint 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. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.</p>		
	a) 30 mm thick plain PVC door shutters	Sq.m	1737.00

21. PVC & uPVC Work

Sl. No.	Description	Unit	Rate
7	<p>Window / Ventilator Shutters:- Providing and fixing factory made uPVC white colour casement/ casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately)</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p> <p>a) Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm).</p>	Sq.m	6611.80
8	<p>WC / Bathroom and other Door frames:- Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm 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 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.</p>	Sq.m	346.20
9	<p>Providing and fixing to existing door frames.</p> <p>a) WC and Bathroom Door Shutter:- 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint 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. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For WC and bathroom door shutter).</p>	Sq.m	1532.30

21. PVC & uPVC Work

Sl. No.	Description	Unit	Rate
10	Cup Board frame :- Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 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 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge.		
	a) Extruded section profile size 48x40 mm	Sq.m	186.20
	b) Extruded section profile size 42x50 mm	Sq.m	229.10
11	Cup Board Shutters :- Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	Sq.m	1653.80
12	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :		
	a) Float glass panes		
	i) 4 mm thick glass pane (weight not less than 10kg/sqm).	Sq.m	382.40
13	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.		
	a) With 12 mm mild steel U beading	Sq.m	832.00