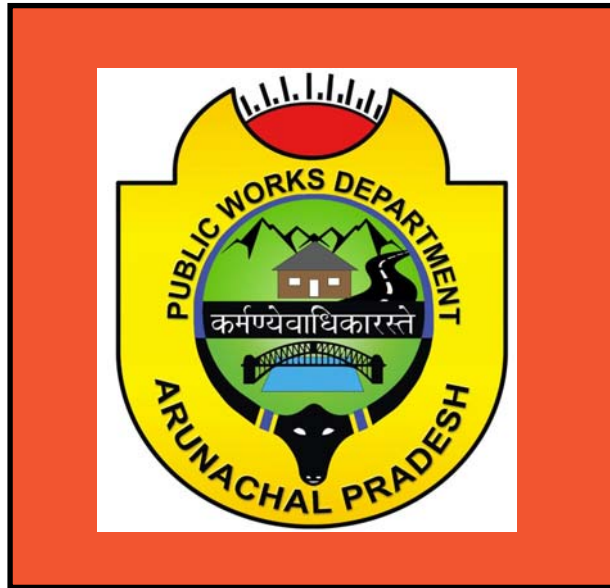


**PUBLIC WORKS DEPARTMENT
ARUNACHAL PRADESH**



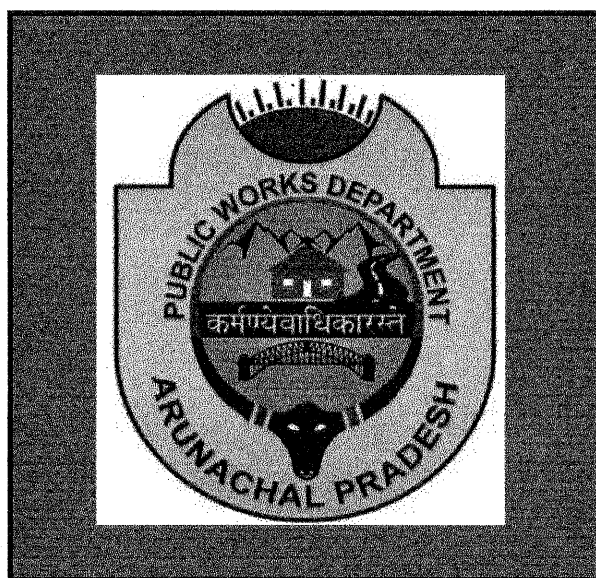
2018
SCHEDULE OF RATES

**FOR
BUILDING WORKS AND SERVICES**

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

**PUBLISHED UNDER THE AUTHORITY OF
THE CHIEF ENGINEER (CSQ)
P.W.D, ARUNACHAL PRADESH, ITANAGAR**

**PUBLIC WORKS DEPARTMENT
ARUNACHAL PRADESH**



2018

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DO No. DCM(AP)/1/2017/
Dated 29th march 2018

MESSAGE

I am happy to know that Arunachal Pradesh Schedule of Rates-2018 and Arunachal Pradesh Analysis of Rates-2018 for Building Works and Services is being brought out by Public Works Department, Arunachal Pradesh. This schedule of rates will be useful for realistic evaluation of projects as well as their effective implementation at site.

I believe all Engineers responsible for implementing construction of building infrastructure in the state will make proper use of this schedule and give utmost priority in quality and durability in construction so as to ensure safety of the occupants of the building in the event of any natural calamity.

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

(Chowna Mein)



B. Pertin, IAS

Commissioner & Secretary,
Govt. of Arunachal Pradesh
(INDIA)



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DO No. COM/PWD-1/2017-18.

Dated 29.3.2018.

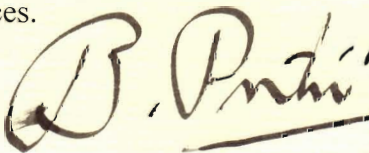
MESSAGE

I am pleased to learn that the Public Works Department, Arunachal Pradesh is going to release Arunachal Pradesh Schedule of Rates-2018 and Arunachal Pradesh Analysis of Rates-2018 for Building Works and Services incorporating items of works with upgraded specifications. The Schedule of Rates play an important role in pre-construction activities like preparation of estimates, design and pre-planning of quality of the projects to be delivered on its completion.

The state of Arunachal Pradesh falls under Seismic Zone-V which indicates high probability of occurrence of earthquake of high magnitude in the region. Therefore, quality in construction of building is non compensable for safety of the occupants of the building in the event of an earthquake. Thus, revision of schedule of rates at regular intervals with prevailing market rates is inevitable to ensure quality and durability of the buildings constructed in the State of Arunachal Pradesh.

I understand all Engineers constructing Govt. buildings will make utmost effort for providing seismic resistance in buildings by adopting appropriate technology and ensuring quality in the works.

I congratulate all the officers and officials who have been involved in preparation of Arunachal Pradesh Schedule of Rates-2018 and Arunachal Pradesh Analysis of Rates-2018 for Building works and Services.


(Belatee Pertin)
Commissioner (PWD) 29/3/18

FOREWORD

The Arunachal Pradesh Schedule of Rates and Analysis of Rates covering the items of building works and services was last published in the year 2014. The Schedule of Rates provides a basic frame work to evaluate cost estimate of the projects. Over the period of last few years, the prices of labour and materials have increased appreciably necessitating revision of the existing Schedule of Rates. The Arunachal Pradesh Schedule of Rates (APSR 2018) and Analysis of Rates (APAR 2018) 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 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 2018 (Building Works and Services), the rates of major construction materials like Cement, Steel and Bitumen 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.

Basic structure and methodology of analysis of items in this schedule are as per the APSR 2014 (Building works and Services). As per IS : 456 : 2000, the RCC works are to be carried out with minimum of M-20 grade of concrete. The state of Arunachal Pradesh falls in Seismic Zone-V, on account of which good quality concrete in building structure is inevitable for safety of the users. Therefore, the concreting work must be carried out with broken aggregate confirming the specified grade.

The basic rates adopted in the analysis are inclusive of all taxes of central/state and any local monopoly charges as was prevalent in March 2018 but exclusive of carriage cost from the source up to the specific site of work.

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 2018 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 staff in bringing out the Schedule of Rates 2018 (Building works and services) and Analysis of Rates 2018 (Building works and services) with the spirit of teamwork.

Phone No. : 0360-2212431 (Office)

E-mail: cecsqpwd@gmail.com


(Kuru Sera) 30/3/18
Chief Engineer (CSQ)
PWD, AP, Itanagar.

PREFACE

- 1 APSR 2014 and APAR 2014 of building works and services is updated to APSR 2018 and APAR 2018 respectively collecting basic rates from all the divisions / circles of PWD department as on 2018. All the basic rates furnished by the divisions are of zero lead and assumed to be inclusive of all taxes. Carriage charge has to be accounted separately as per actual rate given.
- 2 The rates for completed items at the site of work shall be inclusive of basic rates of materials 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 chart 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 materials incorporated in this APSR-2018 are conforming to CPWD updated specifications and are supposed to be executed as per works manual 2014. The scheduled rates (building works and services) 2018 is now brought out purely for calculating cost of the projects by detailed estimation.
- 4 The over-head charges / Contractors profit of building works and services has been taken to be 10%.
- 5 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 be revised / updated by 2020. Accordingly all Divisions / Circles of PWD should furnish basic rates to this office in due date.
- 6 I express my sincere thanks to all office staff members and officers of CSQ, PWD for contributing their time compiling this schedule. Special thanks goes to Shri P.S Bhattacharjee, D/Man Grd.II (CSQ); Shri Lindom Nikte, JE (CSQ); Shri Lishi Kanu, JE(CSQ); Shri S.K Swarnkar, JE (CSQ) and Shri Limar Riba, ASW(SID&P) for their special attention on the Job.
- 7 Due care has been made to bring APSR 2018 / APAR 2018 without error; Still if such errors are noticed; same could be intimated to SE(CSQ) for necessary correction in the next edition.



Tayu Gara
Superintending Engineer (CSQ)
PWD, AP, Itangar.

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BASIC RATES FOR BUILDING WORKS AND SERVICES

Code	Items	Units	Rate
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NOTE:- Labour rates are exclusive of contractort's profit & overheads are inclusive of wages for weekly for day of rest.

A. LABOUR

A0001	Bandhani	Each	350.00
A0002	Belder	Each	350.00
A0003	Bhisti	Each	350.00
A0004	Blacksmith 1st Class	Each	500.00
A0005	Blacksmith 2nd Class	Each	400.00
A0006	Carpenter 1st Class	Each	500.00
A0007	Carpenter 2nd Class	Each	400.00
A0008	Chowkidar	Each	350.00
A0009	Coolie Female	Each	350.00
A0010	Coolie	Each	350.00
A0011	Fitter	Each	500.00
A0012	Assistant Fitter	Each	400.00
A0013	Mason 1st Class	Each	500.00
A0014	Mason 2nd Class	Each	400.00
A0015	Mate	Each	400.00
A0016	Mistry	Each	500.00
A0017	Painter	Each	400.00
A0018	Rock cutting Labour Excavator	Each	400.00
A0019	Rock cutting Labour Breaker	Each	400.00
A0020	Rock cutting Labour Hole driller	Each	400.00
A0021	Rock cutting Labour Chiseller	Each	400.00
A0023	Skilled Beldar for floor rubbing etc.)	Each	400.00
A0024	Thatcher	Each	400.00
A0025	Assistant Thatcher	Each	350.00
A0026	White Washer	Each	400.00
A0030	Glazier	Each	500.00

Code	Items	Units	Rate
	<u>B. MATERIALS</u>		
B0051	Ballies 80 to 100 mm dia	Metre	63.00
B0052	Ballies 100 to 150 mm dia	Metre	69.00
B0056	3rd class Local wood 150 mm dia	Metre	69.00
B0059	3rd class local wood (Dressed) 100 mm dia	Metre	76.00
B0060	3rd class local wood (Dressed) 125 mm dia	Metre	82.00
B0061	3rd class local wood (Dressed) 150 mm dia	Metre	88.00
B0062	Bamboo 8-10 mm dia	100 Nos	7,560.00
B0063	Muli bamboo (best quality 25 to 40 mm dia)	1000 Nos	31,500.00
B0064	Blasting Materials Detonators	Each	12.50
B0065	Blasting Materials Fuse coil	per Coil	45.00
B0066	Blasting Materials Gelatine	Kg	186.00
B0068	Stone shingle 6 mm nominal size	Cub.m	1,940.00
B0069	Stone shingle 10 mm nominal size	Cub.m	1,877.00
B0070	Stone shingle 12.5 mm nominal size	Cub.m	1,449.00
B0071	Stone shingle 20 mm nominal size	Cub.m	1,247.00
B0072	Stone shingle 40 mm nominal size	Cub.m	655.00
B0073	Stone shingle 50 mm nominal size	Cub.m	605.00
B0090	Broken Stone Aggregate 40 mm size	Cub.m	1,575.00
B0089	Broken Stone Aggregate 50 mm size	Cub.m	1,512.00
B0092	Broken Stone Aggregate 20 mm size	Cub.m	2,016.00
B0093	Broken Stone Aggregate 12.50 mm size	Cub.m	2,142.00
B0094	Broken Stone Aggregate 10 mm size	Cub.m	2,205.00
B0095	Broken Stone Aggregate 6 mm single size	Cub.m	2,192.00
B0096	Fine sand	Cub.m	680.00
B0097	Coarse sand	Cub.m	680.00
B0098	Best quality locale bricks	1000 Nos	11,340.00
B0099	2nd Quality local bricks	100 Nos	10,710.00
B0101	Bricks Aggregate	Cub.m	1,827.00
B0103	Bricks Aggregate (one size) 50 mm nominal	Cub.m	1,890.00
B0104	Bricks Aggregate (one size) 40 mm nominal	Cub.m	1,915.00
B0105	Bricks Aggregate (one size) 25 mm nominal	Cub.m	1,953.00
B0106	Bricks Aggregate (one size) 20 & 12.50 mm	Cub.m	2,016.00
B0107	Cement	Mt	10,231.00
B0108	White cement	Mt	44,100.00

Code	Items	Units	Rate
B0109	Dehradu White Lime	Qtl	1,764.00
B0111	Satna Lime	Qtl	1,575.00
B0112	Unslaked Lime	Qtl	1,455.00
B0113	Fat Lime	Qtl	1,571.00
B0114	Coal Tar	Litre	82.00
B0115	Bitumen S/90	Mt	53,246.00
B0116	Bitumen 80/100	Mt	64,806.00
B0117	Insulating Board 12 mm thick	Sq.m	945.00
B0118	Impregrated fibre boars 12 mm thick	Sq.m	722.00
B0119	Teak wood particle board 12 mm thick	Sq.m	567.00
B0120	Flat pressed 3 layer particle boars	Sq.m	1,235.00
B0121	Extra for particle board each face	Sq.m	655.00
B0125	Steam Coal	Qtl	1,096.00
B0126	Fire Wood	Qtl	378.00
B0127	Dry Distemper	Kg	95.00
B0134	Al Fitting (Butt hinges) 125x75x4 mm	10 Nos	773.00
B0135	Al Fitting (Butt hinges) 125x63x4 mm	10 Nos	708.00
B0136	Al Fitting (Butt hinges) 100x75x4 mm	10 Nos	695.00
B0137	Al Fitting (Butt hinges) 100x75x3.2 mm	10 Nos	681.00
B0138	Al Fitting (Butt hinges) 100x63x4 mm	10 Nos	681.00
B0139	Al Fitting (Butt hinges) 75x63x4 mm	10 Nos	668.00
B0140	Al Fitting (Butt hinges) 75x63x3.2 mm	10 Nos	642.00
B0141	Al Fitting (Butt hinges) 50x45x3.2 mm	10 Nos	524.00
B0144	Al Fitting (Handles) 125 mm with PL.17 mm	10 Nos	681.00
B0145	Al Fitting (Handles) 100 mm with PL.15 mm	10 Nos	518.00
B0146	Al Fitting (Handles) 75 mm with PL.12 mm	10 Nos	439.00
B0147	Al Fitting (Screw) 50 mm	100 Nos	328.00
B0148	Al Fitting (Screw) 40 mm	100 Nos	288.00
B0149	Al Fitting (Screw) 30 mm	100 Nos	210.00
B0150	Al Fitting (Screw) 25 mm	100 Nos	164.00
B0151	Al Fitting (Screw) 20 mm	100 Nos	131.00
B0152	Al Fitting (Sliding door bolts) 300x16 mm	Each	223.00
B0153	Al Fitting (Sliding door bolts) 250x16 mm	Each	177.00
B0154	Al Fitting (T. bolts Barrel type) 300x10 mm	Each	1,134.00
B0155	Al Fitting (T. bolts Barrel type) 250x10 mm	Each	826.00

Code	Items	Units	Rate
B0156	Al Fitting (T. bolts Barrel type) 125x10 mm	Each	518.00
B0157	Al Fitting (T. bolts Barrel type) 100x10 mm	Each	413.00
B0166	Kicking plate 50 cm long 100x15 mm	Each	212.00
B0168	Ox. MS Butt (Handles) 125 mm	Each	26.00
B0169	Ox. MS Butt (Handles) 100 mm	Each	24.00
B0170	Ox. MS Butt (Handles) 75 mm	Each	21.00
B0171	Ox. MS Hapse and Staples (150 mm)	10 Nos	567.00
B0172	Ox. MS Hapse and Staples (115 mm)	10 Nos	536.00
B0173	Ox. MS Hapse and Staples (90 mm)	10 Nos	504.00
B0175	Ox. MS Butt hinges 75x47x1.70 mm	10 Nos	132.00
B0180	Ox. MS Hooks and Eyes 300 mm	10 Nos	246.00
B0181	Ox. MS Hooks and Eyes 250 mm	10 Nos	221.00
B0182	Ox. MS Hooks and Eyes 200 mm	10 Nos	176.00
B0183	Ox. MS Hooks and Eyes 150 mm	10 Nos	173.00
B0184	Ox. MS Hooks and Eyes 100 mm	10 Nos	158.00
B0186	Ox. MS Screws 40 mm	100 Nos	120.00
B0188	Ox. MS Screws 25 mm	100 Nos	63.00
B0206	Ox. MS Door Latch 300x20x6 mm	100 Nos	128.00
B0207	Ox. MS Door Latch 250x20x6 mm	100 Nos	110.00
B0208	MS Bolt and Nuts 50x6 mm	Each	7.30
B0216	Iron Butt Hinges 125x65x2.12 mm	10 Nos	410.00
B0217	Iron Butt Hinges 100x58x1.90 mm (Medium)	10 Nos	139.00
B0218	Iron Butt Hinges 75x47x1.70 mm	10 Nos	120.00
B0219	Iron Butt Hinges 50x37x1.50 mm (Medium)	10 Nos	113.00
B0229	MS Screw 50 mm	100 Nos	98.00
B0230	MS Screw 45 mm	100 Nos	88.00
B0231	MS Screw 40 mm	100 Nos	88.00
B0232	MS Screw 30 mm	100 Nos	69.00
B0233	MS Screw 25 mm	100 Nos	63.00
B0234	MS Screw 20 mm	100 Nos	57.00
B0235	MS Sliding Door Bolts 300x16 mm	Each	207.00
B0236	MS Sliding Door Bolts 250x16 mm	Each	124.00
B0237	MS Tower Bolts (Barrel) 250x10 mm	Each	73.00
B0238	MS Tower Bolts (Barrel) 200x10 mm	Each	55.00
B0239	MS Tower Bolts (Barrel) 150x10 mm	Each	44.00

Code	Items	Units	Rate
B0240	MS Tower Bolts (Barrel) 100x10 mm	Each	44.00
B0247	Iron T-Hinges 300x115x2.24 mm	10 Nos	475.00
B0248	Iron T-Hinges 250x100x2.24 mm	10 Nos	365.00
B0251	MS Piano hinges finish with Nickel plating	Metre	66.00
B0264	Prt. Board (Teak wood ply both) 40 mm	Sq.m	1,890.00
B0265	Prt. Board (Teak wood ply both) 35 mm	Sq.m	1,638.00
B0267	Prt. Board (Teak wood ply both) 25 mm	Sq.m	1,386.00
B0268	Prt. Board (Commercial) 40 mm	Sq.m	1,134.00
B0269	Prt. Board (Commercial) 35 mm	Sq.m	1,071.00
B0270	Prt. Board (Commercial) 30 mm	Sq.m	1,008.00
B0285	GI Corrugated sheets	Qtl	7,600.00
B0286	GI Plain sheets (0.80 mm....0.63 mm)	Qtl	7,011.00
B0287	Glass sheet of 2 to 3 mm thick	Sq.m	441.00
B0291	Superior plate glass 4 mm thick	Sq.m	473.00
B0292	Frosted glass panes 2 mm thick	Sq.m	488.00
B0296	AC sheet (plain) 4 mm thick	Sq.m	174.00
B0297	Glass Strips 4 mm thick 40 mm wide	Metre	55.00
B0298	Glass Strips 6 mm thick 40 mm wide	Metre	58.00
B0299	Multipurpose fibre(high impact poly propylene reinforced) cement board 6mm thick	Sq.m	284.00
B0301	Aluminium Strips	Kg	299.00
B0302	AC Plain sheets plain 6 mm thick	Sq.m	256.00
B0304	Standard Quality hard board sheet 4 mm thick	Sq.m	197.00
B0305	Glue for wood work	Kg	176.00
B0306	Hessian Cloth	Sq.m	59.00
B0307	Hiramachi	Qtl	2,520.00
B0308	Jali (Cement concrete) 50 mm thick	Sq.m	441.00
B0309	Jali (Cement concrete) 40 mm thick	Sq.m	252.00
B0310	Jali (Cement concrete) 25 mm thick	Sq.m	214.00
B0318	Pulleys 38 mm dia	Each	365.00
B0320	Marble chips up to 4 mm and down size	Qtl	630.00
B0321	Marble chips up to 4 mm and down size	Qtl	756.00
B0322	Marble chips up to 4 mm and down size	Qtl	767.00
B0323	Marble chips above 4 mm white & black	Qtl	603.00
B0324	Marble dust/powder	Cub.m	5,207.00
B0326	Diesel oil	Litre	58.00

Code	Items	Units	Rate
B0327	Kerosine Oil	Litre	39.00
B0328	Linseed Oil (raw)	Litre	157.00
B0330	Turpentine Oil	Litre	105.00
B0331	Dhari 90 x 90 cm size	100 Nos	1,169.00
B0332	Dhari mat 1.37 x 1.83 m size	Each	35.00
B0335	Coir rope	Kg	87.00
B0336	Aluminium Paints	Litre	382.00
B0337	Anticorrosive Bituminous Paint (Black)	Litre	221.00
B0338	Black Japan paint	Litre	252.00
B0339	Enamel Paint	Litre	275.00
B0342	Emulsion Plastic Paint	Litre	284.00
B0344	Superior ready mixed paint for wood work	Litre	365.00
B0345	Superior ready mixed paint for steel work	Litre	365.00
B0346	Roofing paint for Iron sheets in W/Green	Litre	210.00
B0348	Red Lead (Ready Mixed) paint	Litre	219.00
B0349	Zinc chromate yellow primer (Ready mixed) mixed	Litre	189.00
B0350	White Lead	Litre	197.00
B0351	Water Proofing cement paint	Kg	221.00
B0353	Floor enamel paint in all shades	Kg	365.00
B0355	Oil type preservative	Litre	315.00
B0356	Paint remover	Litre	202.00
B0360	Sunthetic enamel paint black or chocolate	Litre	236.00
B0362	Pigment for flooring Black colour dark	Mt	158.00
B0363	Pigment for flooring Red chocolate light	Kg	176.00
B0364	Pigment for flooring Green or Blue	Kg	158.00
B0366	AC RW Pipes 80/76.2 mm dia	Each	246.00
B0367	AC RW Pipes 100/101.6 mm dia	Each	492.00
B0373	AC Std. Shoe 80/76.2 mm dia	Each	98.00
B0374	AC Std. Shoe 100/101.6 mm dia	Each	112.00
B0376	AC off 50/52.2 mm Projection 80/76.2 mm dia	Each	98.00
B0377	AC off 50/52.2 mm Projection 100/101.1 mm dia	Each	103.00
B0382	AC off 150/152.2 mm Projection 80/76.2 mm dia	Each	246.00
B0383	AC off 150/152.2 mm Projection 100/101.6 mm	Each	269.00
B0386	AC Bends 80/76.2 mm dia with door	Each	179.00
B0388	AC Bends 100/101.6 mm dia with door	Each	291.00

Code	Items	Units	Rate
B0390	AC RW Head 80 mm dia	Each	112.00
B0391	AC RW Head 100 mm dia	Each	157.00
B0396	AC sheet (Corrugated) 6 mm thick	Sq.m	278.00
B0397	AC sheet (Corrugated) 7 mm thick	Sq.m	278.00
B0398	Serrated or plain wing Adjustable ridge	Pair	262.00
B0399	Close fitting adjust. Ridge 1.10 m long	Pair	309.00
B0403	CI RW pipe 75 mm dia 1.80 m long	Each	1,245.00
B0404	CI RW pipe 100 mm dia 1.80 m long	Each	1,507.00
B0405	CI RW pipe 150 mm dia 1.80 m long	Each	2,293.00
B0406	CI Plain bend 75 mm dia (Inner)	Each	239.00
B0407	CI Plain bend 100 mm dia (Inner)	Each	459.00
B0408	CI Plain bend 150 mm dia (Inner)	Each	786.00
B0409	CI Head flat or Cormer type bend 75 mm	Each	284.00
B0410	CI Head flat or Cormer type bend 100 mm	Each	340.00
B0411	CI Head flat or Cormer type bend 150 mm	Each	819.00
B0412	CI plain shoe 75 mm dia (Inner)	Each	397.00
B0413	CI plain shoe 100 mm dia (Inner)	Each	599.00
B0414	CI plain shoe 150 mm dia (Inner)	Each	731.00
B0415	CI off (Plain) 75 mm dia, 55 mm Projection	Each	286.00
B0416	CI off (Plain) 75 mm dia, 150 mm Projection	Each	373.00
B0417	CI off (Plain) 100 mm dia, 55 mm Projection	Each	476.00
B0418	CI off (Plain) 100 mm dia, 150 mm Projection	Each	609.00
B0419	CI off (Plain) 150 mm dia, 55 mm Projection	Each	636.00
B0420	CI off (Plain) 150 mm dia, 150 mm Projection	Each	649.00
B0435	SW pipe 100 mm dia 600 mm long	Each	227.00
B0436	Cement pipe 100 mm dia 600 mm long	Each	262.00
B0439	Aluminium Primer	Litre	208.00
B0440	Cement Primer	Litre	176.00
B0441	Distemper Primer	Litre	151.00
B0442	Prink Primer for wood	Litre	158.00
B0443	Primer for expansion joint	Litre	227.00
B0445	Wax polish (ready made)	Kg	341.00
B0448	Rolling Shutters made of 80x1.25 mm	Sq.m	2,010.00
B0449	Top cover of rolling shutter	Metre	812.00
B0450	27.50 cm long wire spring No. 2	Each	497.00

Code	Items	Units	Rate
B0451	Ball bearing for rolling shutters	Each	432.00
B0452	Spirit	Litre	92.00
B0454	Hard Board sheet 3 mm thick	Sq.m	164.00
B0462	Mild steel Barbed wire	Qtl	11,340.00
B0464	Steel Bolts, Nuts & Washers up to 300 mm long	Qtl	12,600.00
B0465	Steel Bolts, Nuts & Washers above 300 mm long	Qtl	12,600.00
B0467	Mild steel Expanded metal 20x60mm	Sq.m	393.00
B0468	MS Flate exceeding 3.15 mm	Qtl	7,207.00
B0469	MS Flate up to 3 mm	Qtl	6,552.00
B0471	20 mm holding down bolts	Qtl	12,600.00
B0475	Mild steel bars above 16 mm dia	Qtl	6,760.00
B0476	Mild steel round bars	Qtl	6,760.00
B0477	Twisted steel/deformed bars	Qtl	6,760.00
B0480	Structural steel such as T, Angle & Channels etc.	Qtl	7,686.00
B0482	Mild steel tubes, 40 mm & 50 mm dia	Kg	72.00
B0486	GI Barbed Wire	Qtl	11,340.00
B0487	GI "J" or "L" hooks 8 mm dia	Each	15.70
B0488	GI Bolts and nuts (38x8 mm)	Each	15.70
B0489	GI seam bolts and nuts (25x6 mm)	Each	5.25
B0493	Through and bond stone	100 Nos	1,638.00
B0502	Stone at Quarry	Cub.m	651.00
B0503	Stone for Masonry work	Cub.m	651.00
B0505	Tiles Cheqq. terra 22 mm thick Light shade	Sq.m	988.00
B0506	Tiles Cheqq. terra 22 mm thick Medium shade	Sq.m	990.00
B0507	Tiles Cheqq. terra 22 mm thick Dark shade	Sq.m	1,005.00
B0511	Tiles PC terra 20 mm thick Light shade	Sq.m	512.00
B0512	Tiles PC terra 20 mm thick Medium shade	Sq.m	512.00
B0513	Tiles PC terra 20 mm thick Dark shade	Sq.m	512.00
B0514	White glazed tiles 150x150x5 mm thick	10 Nos	393.00
B0516	Timber Plank - Class A iv	ten cubic dm	441.00
B0517	Timber Plank B I	ten cubic dm	410.00
B0518	Timber Plank Class C	ten cubic dm	378.00
B0519	Timber Scantling - Class A iv	ten cubic dm	410.00
B0520	Timber scanting class B I	ten cubic dm	378.00
B0521	Timber scanting class B II	ten cubic dm	347.00

Code	Items	Units	Rate
B0522	Timber scanting class C	ten cubic dm	315.00
B0532	Bhusa	Kg	14.60
B0536	Vision panel Square (Sqm) of door area	Sq.m	157.25
B0537	Vision panel Circle (Sqm) of door area	Sq.m	255.50
B0538	Louvers Deco. type (Sqm) of door area	Sq.m	426.00
B0539	Louvers Comm. type (Sqm) of door area	Sq.m	426.00
B0541	Hoop Iron 25 mmx1.60 mm	Qtl	12,600.00
B0543	Mud (dry)	Cub.m	82.00
B0544	Ordinary Varnishes	Litre	232.00
B0545	Superior Copal varnishes	Litre	249.00
B0546	Superior Spar varnishes	Litre	290.00
B0548	Rivets (16 mm dia 50 mm long)	Qtl	14,351.00
B0549	Redoxide	Kg	170.00
B0550	Surkhi	Cub.m	950.00
B0551	Sun grass (thatch) 30 cm dia bundle	100 Bundles	655.00
B0552	GI Limpet washer	Each	4.60
B0553	Bitumen washer	Each	3.95
B0554	GI plain washer	Each	4.60
B0557	Water Proofing materials	Kg	73.00
B0560	Welding by gas plant	Cm	6.50
B0561	Welding by Electric plant	Cm	5.50
B0562	Whiting	Qtl	1,754.00
B0564	Wooden Plug	Each	7.30
B0565	Wire (G.I.)	Qtl	10,080.00
B0568	Mesh wire gauge 24 BWG	Sq.m	151.00
B0570	100 mm mortar latch & lick (Chrom plated)	Each	367.00
B0571	Blown or / and residual bitumen	Mt	66,306.00
B0572	Bitumen felt type 2 grade I	Sq.m	105.00
B0573	Bitumen felt type 3 grade I	Sq.m	91.75
B0574	Bitumen solution primer	Litre	65.50
B0575	Under Layer bitumen felt type I	Sq.m	91.70
B0576	Plastic roofing compound black	Qtl	4,979.50
B0577	Liquid Plastic roofing compound	Litre	182.70
B0578	MS holder bat clamp 75 mm	Each	23.60
B0579	MS holder bat clamp 100 mm	Each	27.40

Code	Items	Units	Rate
B0580	MS holder bat clamp 150 mm	Each	39.30
B0581	Welded steel wire fabric	Sq.m	576.60
B0582	Copper Plate	Kg	831.60
B0583	Putty	Kg	104.00
B0584	Galss panes 2 mm thick	Sq.m	566.40
B0585	Glass panes 3 mm thick	Sq.m	803.00
B0587	Al Fittings (Butt hinges) 75x47x1.7 mm	10 Nos	524.00
B0588	Iron Butt Hinges 100x50x1.9 mm	10 Nos	139.00
B0589	Al Fittings (Butt hinges) 75x45x3.2 mm	10 Nos	524.00
B0590	Bitumen Sealing Compound	Litre	53.25
B0591	R.S. Joist	Qtl	7,208.00
B0593	RS or CI bracket for flushing cistern	Pair	82.00
B0595	Mahogany polished with lid	Each	121.00
B0596	Mahogany polished with lid	Each	101.00
B0597	Black plastic sheet and lid	Each	302.00
B0599	GI "J" or "L" hooks 10 mm dia	Each	15.70
B0607	Bracket GI for Flushing cistern	Each	82.00
B0610	CP brass chain with 32 mm rubber plug	Each	128.00
B0611	CP brass chain with 40 mm rubber plug	Each	164.00
B0613	Cistern Low-level 12.5 Litre with fittings	Each	2,282.00
B0614	Auto CI flushing cistern 5 Litre capacity	Each	695.30
B0615	Auto CI flushing cistern 10 Litre capacity	Each	1,005.00
B0616	Auto CI flushing cistern 15 Litre capacity	Each	1,096.00
B0617	Auto CI Flushing cistern 12.50 Litres	Each	1,051.00
B0618	Holder bat clamp 32 mm	Each	73.00
B0628	Brass Bib cock 15 mm dia	Each	275.00
B0629	Brass Bib cock 20 mm dia	Each	295.00
B0630	Brass Bib cock 25 mm dia	Each	302.00
B0631	Brass Stop cock 20 mm dia	Each	367.00
B0632	Brass Stop cock 25 mm dia	Each	302.00
B0633	Brass Stop cock 25 mm dia	Each	302.00
B0634	Brass Stop cock 32 mm dia	Each	491.00
B0635	Brass Stop cock 40 mm dia	Each	1,124.00
B0636	Brass Stop cock 50 mm dia	Each	1,673.00
B0640	CI cover mosquito proof 25 mm	Each	959.00

Code	Items	Units	Rate
B0641	CI cover with frame 300x300 mm inside	Each	1,235.00
B0646	Foot Rests Vitreous china 250x130x30 mm	Pair	189.00
B0647	Foot Rests Vitreous china 250x125x25 mm	Pair	189.00
B0667	Single socketed Asbestos Pipe 50 mm dia	Each	743.00
B0668	Single socketed Asbestos Pipe 75 mm dia	Each	756.00
B0669	Single socketed Asbestos Pipe 100 mm dia	Each	819.00
B0676	Equal Junction (Plain) 50x50x50 mm	Each	290.00
B0678	Equal Junction (Plain) 100x100x100 mm	Each	410.00
B0679	Equal Junction with Acc Door 50x50x50 mm	Each	315.00
B0680	Equal Junction with Acc Door 80x80x80 mm	Each	410.00
B0681	Equal Junction with Acc Door 100x100x10 mm	Each	491.00
B0705	HD Polythene Pipe 20 mm dia	Metre	49.30
B0706	HD Polythene Pipe 25 mm dia	Metre	71.25
B0707	HD Polythene Pipe 32 mm dia	Metre	111.45
B0708	HD Polythene Pipe 40 mm dia	Metre	177.20
B0709	HD Polythene Pipe 50 mm dia	Metre	281.30
B0718	GI Pipe 15 mm dia (Medium)	Metre	137.60
B0719	GI Pipe 20 mm dia (Medium)	Metre	163.80
B0720	GI Pipe 25 mm dia (Medium)	Metre	209.70
B0721	GI Pipe 32 mm dia (Medium)	Metre	235.90
B0722	GI Pipe 40 mm dia (Medium)	Metre	288.30
B0723	GI Pipe 50 mm dia (Medium)	Metre	378.00
B0724	GI Pipe 65 mm dia (Medium)	Metre	478.80
B0725	GI Pipe 80 mm dia (Medium)	Metre	617.40
B0788	GI Tees (Equal) GI Inlet connection	Each	730.80
B0789	Single socketed pipe 1.83 m long, 50 mm	Each	1,121.40
B0790	Single socketed pipe 1.83 m long, 75 mm	Each	1,245.00
B0791	Single socketed pipe 1.83 m long, 100 mm	Each	1,507.00
B0817	Sand cast Iron Heel rest Bend 50 mm	Each	288.00
B0818	Sand cast Iron Heel rest Bend 75 mm	Each	315.00
B0819	Sand cast Iron Heel rest Bend 100 mm	Each	345.00
B0823	PVC Connection pipe 30 cm long, 15 mm dia	Each	88.20
B0824	PVC Connection pipe 30 cm long, 20 mm dia	Each	157.50
B0825	PVC Connection pipe 45 cm long, 15 mm dia	Each	69.30
B0826	PVC Connection pipe 45 cm long, 20 mm dia	Each	109.60

Code	Items	Units	Rate
B0829	NP2 class pipe 100 mm dia	Metre	308.75
B0830	NP2 class pipe 150 mm dia	Metre	407.40
B0831	NP2 class pipe 250 mm dia	Metre	595.60
B0832	NP2 class pipe 300 mm dia	Metre	860.50
B0833	NP2 class pipe 450 mm dia	Metre	1,872.15
B0835	NP2 class pipe 600 mm dia	Metre	2,709.45
B0836	NP2 class pipe 700 mm dia	Metre	2,806.25
B0839	NP2 class pipe 900 mm dia	Metre	4,244.10
B0840	NP2 class pipe 1000 mm dia	Metre	4,665.30
B0843	NP2 class Collars 100 mm dia	Each	81.80
B0844	NP2 class Collars 150 mm dia	Each	113.05
B0845	NP2 class Collars 250 mm dia	Each	156.60
B0846	NP2 class Collars 300 mm dia	Each	179.40
B0847	NP2 class Collars 450 mm dia	Each	430.80
B0849	NP2 class Collars 600 mm dia	Each	593.00
B0850	NP2 class Collars 700 mm dia	Each	639.45
B0853	NP2 class Collars 900 mm dia	Each	1,048.00
B0854	NP2 class Collars 1000 mm dia	Each	1,169.30
B0857	Stone ware pipes - 100 mm (60 cm long)	Each	173.50
B0858	Stone ware pipes - 150 mm (60 cm long)	Each	222.90
B0859	Stone ware pipes - 200 mm (60 cm long)	Each	303.30
B0866	Shower rose (for 15 mm to 20 mm inlet) 100 mm	Each	439.50
B0867	Shower rose (for 15 mm to 20 mm inlet) 150 mm	Each	670.60
B0869	Spun Yarn	Kg	73.10
B0870	Toilet paper holder of standard size	Each	705.60
B0871	Toilet paper holder of standard size	Each	529.85
B0882	HP with copper Floats 15 mm dia	Each	367.90
B0883	HP with copper Floats 20 mm dia	Each	502.75
B0884	LP with copper Floats 15 mm dia	Each	367.90
B0885	LP with copper Floats 20 mm dia	Each	502.75
B0886	LP with copper Floats 25 mm dia	Each	766.10
B0887	HP with Polythene Floats 15 mm dia	Each	87.70
B0888	HP or LP with Polythene Floats 20 mm dia	Each	102.30
B0889	HP or LP with Polythene Floats 25 mm dia	Each	146.20
B0893	Full way Valve (Brass) 32 mm dia	Each	680.40

Code	Items	Units	Rate
B0894	Full way Valve (Brass) 40 mm dia	Each	1,123.90
B0895	Full way Valve (Brass) 50 mm dia	Each	1,673.30
B0896	Full way Valve (Brass) 65 mm dia	Each	1,989.50
B0897	Full way Valve (Brass) 80 mm dia	Each	3,558.25
B0898	Non Return Valve (GM) 25 mm dia	Each	432.40
B0899	Non Return Valve (GM) 32 mm dia	Each	603.50
B0900	Non Return Valve (GM) 40 mm dia	Each	863.10
B0901	Non Return Valve (GM) 50 mm dia	Each	1,357.00
B0902	Non Return Valve (GM) 65 mm dia	Each	2,191.10
B0903	Non Return Valve (GM) 80 mm dia	Each	3,855.00
B0912	Flat back WB (Vitreous China) 550x400 mm	Each	1,386.00
B0914	India WC Pan size 580 mm	Each	1,031.70
B0915	Orissa WC Pan size 580 mm	Each	1,386.00
B0916	WC Pedestral (Vitreous China)	Each	2,394.00
B0930	32 mm GI For flushing cistern	Each	378.00
B0931	20 m GI overflow pipe	Metre	292.30
B0932	100 mm sand CI 'P' oe 'S' trap with vent	Each	412.80
B0933	Urinal Basin	Each	693.00
B0934	GI Flush pipe	Each	229.30
B0935	CP brass pillar tap	Each	365.40
B0936	MI union 32 mm dia	Each	157.25
B0937	Porcelain stopper	Each	36.70
B0938	White plastic sheet and lid	Each	746.90
B0939	White glazed fire clay sink 600x450x150 mm	Each	2,331.00
B0940	White vitreous china sink 600x400x200 mm	Each	4,384.80
B0941	CP brass waste of standard pattern	Each	164.40
B0942	Rubber Plug	Each	64.00
B0943	CP brass waste 32 mm dia	Each	105.00
B0944	CP brass waste 40 mm dia	Each	146.00
B0945	MI fisher Union 32 mm dia	Each	157.25
B0946	MI fisher Union 40 mm dia	Each	242.40
B0947	CP brass or MI trap 32 mm dia	Each	301.40
B0948	CP brass or MI trap 40 mm dia	Each	327.60
B0949	HCI grating	Each	82.20
B0950	Mirror	Each	652.05

Code	Items	Units	Rate
B0951	CP brass screws for Mirror	Each	11.35
B0952	Glass shelf with a guard rail	Each	1,159.75
B0953	CP brass towel rail	Each	409.50
B0954	Rubber Washer	Each	27.40
B0955	SCI trap with 100 mm inlet/100 mm outlet	Each	372.60
B0956	SCI trap with 100 mm inlet/75 mm outlet	Each	285.70
B0957	SCI trap with 100 mm inlet/50 mm outlet	Each	209.70
B0963	Full way Valve (Brass) 100 mm dia	Each	5,292.00
B0969	100 mm x 100 mm x Class A iv Batten	ten Cubic dm	425.90
B0973	16 mm dia holding down bolt	Qtl	12,600.00
B0974	Flats steel above 10 mm thickness	Qtl	7,207.00
B0975	Flats steels up to 10 mm thickness	Qtl	7,207.00
B0976	Steel plates 12 mm thick	Qtl	7,686.00
B0977	Shellac	Kg	350.80
B0997	Single Matting	Sq.m	19.70
B1520	GI Pipe 100 mm dia	Metre	926.00
B1521	GI Pipe 150 mm dia	Metre	1,697.00
B1522	Aluminium Corrugated/Troughed Sheet (0.65/0.71mm thick)	Qtl	31,500.00
B1523	Seam Bolt and nut	Set	5.25
B1524	J' Hook for tubes with bolt,nut, washer and bitumen	Set	28.30
B1525	Vitrified Tiles 500x500mm	Sq.m	1,009.00
B1526	Vitrified Tiles 600x600mm	Sq.m	1,113.85
B1527	Vitrified Tiles 800x800mm	Sq.m	1,244.90
B1528	Vitrified Tiles 1000x1000mm	Sq.m	2,096.65
B1529	Aluminium T or L section	Kg	315.00
B1530	Brass Screws	100nos	288.30
B1531	Anodising 15 microns on aluminium sections	Kg	52.40
B1532	Epoxy Powder coating 50 microns on aluminium sections	Kg	83.90
B1533	Polyester powder coating 50 microns on aluminium sections	Kg	91.75
B1534	Neoprene/EPDM rubber gasket	Metre	32.80
B1535	Prelaminated particle board with one side decorative and other side balancing lamination 12 mm thick	Sq.m	982.80
B1536	Pre-laminated particle board with decorative lamination on both sides 12 mm thick	Sq.m	1,035.20
B1537	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	Sq.m	681.40
B1538	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	Sq.m	969.70
B1539	Rawl plug 50 mm (designation 10 nos)	Each	13.10

Code	Items	Units	Rate
B1540	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	Each	36.70
B1541	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	Each	65.50
B1542	Silicon sealant	cartridge	445.50
B1543	Masking tape	Metre	3.40
B1544	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	Each	242.40
B1545	Stainless steel screws 30 mm x 4 mm	100 Nos	41.90
B1546	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	Each	294.80
B1547	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	Each	380.00
B1548	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	Each	668.30
B1549	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	Each	1,212.00
B1550	Brass 100mm mortice latch and lock with 6 levers without pair of handles	Each	367.00
B1551	Aluminium round shape handle-anodised AC 15	10	68.15
B1552	Stainless steel screws 25 mm x 4 mm	100	45.90
B1553	Aluminium round shape handle (Powder Coated)	10	76.00
B1554	Aluminium round shape handle (Polyester powder coated)	10	81.20
B1555	Aluminium Grill	Kg	327.60
B1556	TATA Durashine Zinc- Alloy coated roof sheets (Total coated thickness 0.45mm)	Sq.m	652.70
B1557	Self drilling screws with washer - Fasteners (Tata Bluescope Building product)	Each	12.60
B1558	Durashine zinc-Alloy coated plain ridges	Metre	400.75
	<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
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

Code	Items	Units	Rate
	<u>D. MACHINERY</u>		
D1405	Road Roller (8 to 10 tonnes)	Hour	1,575.00
D1449	Water Pump (5 to 8 HP diesel)	Hour	42.00
	<u>L. LUMPSUM & OTHER</u>		
L0001	Sundries		2.92
L0002	Carriage(coal tar/timber		2.92
L0003	Scaffolding etc.		2.92
L0004	Screw and nails etc.		2.92
L0005	Hire and running charges of mech mixer		2.92
L0006	Labour for hoisting & fixing		2.92
L0007	Lifting		2.92
L0009	Cement and Sand (Mortar)		2.92
L0011	Labour for screening and spreading grit		2.92
L0012	Clamps		2.92
L0013	Extra Labour		2.92
L0015	Indigo, Gum, copper sulphate etc		2.92
L0016	Coloring staff		2.92
L0017	Brushes, sand papers, putty soap etc.		2.92
L0019	Repairs to scratches		2.92
L0020	Painting two coats of coal tar		2.92
L0021	Disposal of Mulba		2.92
L0022	Painting or varnishing or leeswaxing		2.92
L0023	Methylated spirit		2.92
L0024	Making good the holes		2.92
L0027	Concrete for fixing		2.92
L0028	Disposal of earth spread over floor portion		2.92
L0029	Handle and locking arrangement		2.92
L0030	Bolts & Nuts		2.92
L0031	Cement Concrete (1: 2: 4)		2.92
L0032	Rivets, fixing hooks, washers etc.		2.92
L0033	MS Flats 25x3 mm & 10 cm long over bra		2.92
L0034	Welding charges		2.92
L0035	Nails and spikes		2.92
L0036	Special for overflow pipes		2.92
L0037	Red lead, white lea and gasket		2.92

Code	Items	Units	Rate
L0038	Cement, sand and grit etc		2.92
L0039	Cement, mortar, spun yarn		2.92
L0040	Polishing of wooden seat and cleaning		2.92
L0041	White lead, Hemp, oil etc		2.92
L0042	Av cost of running & unpkeep of mortar		2.92
L0043	Coir and Jute string		2.92
L0045	Rubbish		2.92
L0046	Plugs, Screws etc		2.92
L0047	Wire and nails		2.92
L0048	Fixing		2.92
L0049	Painting brackets and fittings		2.92
L0050	Add for delay		2.92
L0052	Chequered Plate		2.92
L0053	Extra for removing burrs, cleaning complete		2.92
L0054	Gum, Glue		2.92
L0055	Lime		2.92
L0057	Spreading earth on floor (75 mm thick)		2.92
L0059	Kerosene Oil, Linseed oil etc.		2.92
L0060	Pigment (color)		2.92
L0062	White wooden cloth		2.92
L0063	Wooden Plug		2.92
L0064	GI stapples or binding wire		2.92
L0066	Cement for neat finishing		2.92
L0067	Wooden block and screws		2.92
L0068	Iron Gratings 150 mm dia		2.92
L0069	Exca. Trans. & stacking post to required		2.92
L0070	Transporting and stacking		2.92
L0071	Cutting		2.92
L0072	Excavation in circulars		2.92
L0073	Painting two or more coats to exposed surface		2.92
L0085	Mortar for printing in white cement		2.92
L0086	Deduction for Gur and Belgri		2.92
L0088	Applying steel primer		2.92
L0089	Carriage, fixing charges		2.92
L0091	Painting brushes, tarpentine, utensils etc.		2.92

Code	Items	Units	Rate
L0093	Sundries and scaffolding		2.92
L0095	Sundries and Labour		2.92
L0096	Carriage of WP Materials and Labour		2.92
L0097	Sundries and carriage		2.92
L0098	Carriage, including cement and sand		2.92
L0099	Morter for fixing		2.92
	Costs		
L0100	Labour for beating lime concrete		2.92
L0101	Raking out joint		2.92
L0102	Extra for delay and Sundries		2.92

Carriage of Materials
For Analysis refer APSR 2018 (Road & Bridges)

Item No.	Descriptions	Unit	Rate
	FOR PLAIN ROADS		
1.1	<i>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)</i>	cum	179.00
1.2	<i>Loading and Unloading of Boulders by Manual Means</i>	cum	213.00
1.3	<i>Loading and Unloading of Cement or Steel by Manual Means and stacking.</i>	tonne	264.00
1.4	Cost of Haulage Excluding Loading and Unloading		
(i)	<i>Surfaced Road</i>	tonne.km	7.40
(ii)	<i>Unsurfaced Gravelled Road</i>	tonne.km	8.80
(iii)	<i>Katcha Track and Track in river bed / nallah bed and choe bed.</i>	tonne.km	17.80
1.5	FOR HILL ROADS		
	<i>Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kanker/Moorum / Lime / Shingle /Surki/ 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.</i>	cum	179.00
1.6	<i>Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kanker/Moorum / Lime / Shingle /Surki/ Earth / Excavated Rock and Kerb Stones by Manual Means for hill roads.</i>	cum	214.00
1.7	<i>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.</i>	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)	<i>Surfaced Road</i>	tonne.km	10.50
(ii)	<i>Unsurfaced Graveled Road</i>	tonne.km	12.60
(iii)	<i>Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.</i>	tonne.km	25.40
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)	<i>Surfaced Road</i>	tonne.km	12.10
(ii)	<i>Unsurfaced Graveled Road</i>	tonne.km	14.60
(iii)	<i>Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.</i>	tonne.km	29.30

Jungle Clearance
For analysis refer APSR 2018 (Road and Bridges)

Item No.	Descriptions	Unit	Rate
2.1	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	596.00
(iii)	Girth from 900 mm to 1800 mm	each	1,146.00
2.2	Clearing Grass and Removal of Rubbish	hectare	22,143.00
2.3	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	67,080.00
B)	In area of thorny jungle	hectare	89,874.00
(ii)	By Mechanical Means		
A)	In area of light jungle	hectare	60,357.00
B)	In area of thorny jungle	hectare	73,155.00

1. Temporary Item			
Sl.No.	Description	Unit	Rate
	ITEMS USED FOR SUB HEAD: MISCELLANEOUS		
1.	a) Mild steel reinforcement for RCC work	Quintal	8863.10
	b) 6 mm thick top layer with marble chips	Sqm	548.20
	c) 6 mm cement plaster 1 : 2 (1 cement : 2 fine sand)	Sqm	142.60
	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	6536.90
2.	Painting on brick flooring with cement mortar 1 : 2 (1 cement : 2 fine sand)		
	a) Flush painting	Sqm	88.00
	ITEMS USED FOR SUB HEAD: CONCRETE WORK		
3.	6 mm cement plaster 1 : 3 (1 cement : 3 fine sand)	Sqm	125.70
4.	a) Cement concrete 1 : 1 : 2 (1 cement : 1 coarse sand : 2 stone aggregate 20 mm nominal size).	Cum	10094.00
	b) Providing and fitting in position blown bitumen in expansion joints.	per Cm depth per cm width per 100 mtr	871.70
	c) Centring and shuttering including strutting, propping (for chajjas) etc.	Sqm	741.90
	d) Extra labour for RCC work	Cum	174.40
	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	33.30
	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
	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	156.90
	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

1. Temporary Item			
Sl.No.	Description	Unit	Rate
	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	499.00
	ITEMS USED FOR SUB HEAD: STONE WORK		
9.	a) Pre-cast cement concrete blocks of size 40 x 40 x 10 cm	Each	88.20
	ITEMS USED FOR SUB HEAD: WALLING		
10.	Mud plastering	Sqm	59.70
	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	931.50
	c) Providing and laying cement concrete 1 : 2 : 4 with jhama aggregate.	Cum	6856.50

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	138.80
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	179.90
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	240.10
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	281.30
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	22.90
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	15.40
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	562.70
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	504.50
9.	Extra for every additional lift or 1.50 m or part thereof for decomposed soft or hard rock.	Cum	27.40
10.	Extra for lead of 50 m or part thereof for decomposed soft or hard rock.	Cum	27.40
11.	Removing mixed earth or rock slips including clearing the site within a lead of 50 m and upto 1.50 m lift.	Cum	272.20
12.	Re-filling excavated earth in foundations and plinth etc. in 15 cm layer including ramming and watering etc. complete.	Cum	127.80
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	439.10
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	482.00

2. Earth Work			
Sl.No.	Description	Unit	Rate
15.	Extra for every additional lift of 1.50 m or part thereof for saturated soil.	Cum	20.60
16.	Excavation in hard shale and disposal of the same, lead upto 50 m, and lift upto 1.50 m.	Cum	210.30
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	721.30
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	660.00
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	1152.10
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	1097.77
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	137.50
22.	Filling in plinth with sand under floors including watering, ramming, consolidating and dressing complete.	Cum	845.30
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	158.60
	b) Hard Soil	Cum	199.80

2. Earth Work			
Sl.No.	Description	Unit	Rate
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	19.90
	b) Hard Soil	Sqm	27.20
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.		
	a) Ordinary Soil	Sqm	10.50
	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	142.70
	b) Hard Soil	Cum	182.80
	c) Hard Shale and or Dhunda Soil	Cum	333.30
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	621.80
	b) Hard Rock requiring blasting	Cum	930.90
	c) Hard Rock requiring chiselling (where blasting is prohibited)	Cum	1241.00
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	104.60
	b) Hard Soil	Cum	122.80
30.	Pumping out water caused by springs, tidal or river seepage, broken water mains, drains or the like.	K.Ltr	84.00

3. Mortar			
Sl.No.	Description	Unit	Rate
1.	Cement mortar 1 : 1 (1 cement : 1 fine sand)	Cum	11268.00
2.	Cement mortar 1 : 2 (1 cement : 2 fine sand)	Cum	7950.90
3.	Cement mortar 1 : 3 (1 cement : 3 fine sand)	Cum	6293.30
4.	Cement mortar 1 : 4 (1 cement : 4 fine sand)	Cum	4963.20
5.	Cement mortar 1 : 5 (1 cement : 5 fine sand)	Cum	4247.10
6.	Cement mortar 1 : 6 (1 cement : 6 fine sand)	Cum	3633.20
7.	Lime mortar 1 : 2 (1 lime putty : 2 surkhi)	Cum	5787.40
8.	Mud mortar	Cum	471.70
9.	Lime mortar 1 : 1 : 1 (1 lime putty : 1 surkhi : 1 fine sand)	Cum	5659.20
10.	Cement mortar 1 : 2 (1 cement : 2 coarse sand)	Cum	7950.90
11.	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	Cum	6293.30
12.	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Cum	4963.20
13.	Cement mortar 1 : 5 (1 cement : 5 coarse sand)	Cum	4247.10
14.	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	Cum	3633.20
15.	Cement mortar 1 : 2 (1 white cement : 2 marble dust)	Cum	35282.50
16.	Lime mortar 1 : 1 : 1 (1 lime : 1 surkhi : 1 coarse sand)	Cum	5659.20

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	4296.20
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	4754.90
3.	Deduct rate for concrete for using 50 mm nominal size stone aggregate instead of 40 mm nominal size stone aggregate.	Cum	45.50
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	5323.20
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	5397.90
	c) Independent piers, columns and pillars up to floor two level.	Cum	5421.20
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	6442.00
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	6516.70
	c) Independent piers, columns and pillars up to floor two level.	Cum	6540.00
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	5804.10
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	5878.70
	c) Independent piers, columns and pillars up to floor two level.	Cum	5902.10
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	6810.20

4. Concrete Work			
Sl.No.	Description	Unit	Rate
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	6884.90
	c) Independent piers, columns and pillars up to floor two level.	Cum	6908.30
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	7627.50
	b) Walls including attached buttresses, pilasters and their caps and bases and string courses etc. up to floor two level.	Cum	7702.20
	c) Independent piers, columns and pillars up to floor two level.	Cum	7725.50
9.	Centring and shuttering including strutting proping etc. and removal of form work for:		
	a) Foundations and plinth.	Sqm	348.10
	b) Walls including attached buttresses, pilasters etc.	Sqm	474.30
	c) Columns, pillars and piers.	Sqm	584.60
	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	10022.90
Note:	Work at or near ground level.		
	b) String courses, copings, bed plates, anchor blocks, plain window sills and the like.	Cum	11879.70
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	12176.70
	d) Mouldings as in cornices, windows sills etc. exceeding 15 cm in girth.	Cum	13066.30
	e) Mouldings as in cornices, windows sills etc. not exceeding 15 cm in girth.	Cum	13156.20
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 :		

4. Concrete Work			
Sl.No.	Description	Unit	Rate
	a) Kerbs, steps and the like.	Cum	9016.80
	b) String courses, copings, bed plates, anchor blocks, plain window sills and the like.	Cum	10873.50
	c) Small lintels not exceeding 1.50 m clear span over railing copings and the like requiring form work to suspended portions.	Cum	11170.50
	d) Mouldings as in cornices, windows sills etc. exceeding 15 cm in girth.	Cum	12060.10
	e) Mouldings as in cornices, windows sills etc. not exceeding 15 cm in girth.	Cum	12150.00
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	12388.60
	b) String courses, copings, bed plates, anchor blocks, plain window sills and the like.	Cum	13238.30
	c) Small lintels not exceeding 1.50 m clear span over railing copings and the like requiring form work to suspended portions.	Cum	12473.00
	d) Mouldings as in cornices, window sills etc. exceeding 15 cm in girth.	Cum	14473.50
	e) Mouldings as in cornices, window sills etc. not exceeding 15 cm in girth.	Cum	14563.50
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.	Cum	11382.50
	b) String courses, copings, bed plates, anchor blocks, plain window sills and the like.	Cum	12232.10
	c) Small lintels not exceeding 1.50 m clear span over railing copings and the like requiring form work to suspended portions.	Cum	11466.80
	d) Mouldings as in cornices, window sills etc. exceeding 15 cm in girth.	Cum	13467.30
	e) Mouldings as in cornices, window sills etc. not exceeding 15 cm in girth.	Cum	13557.30
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	2445.10
15.	Extra rate for concrete for using 12.50 mm (nominal size) stone aggregate, instead of 20 mm nominal size stone aggregate.	Cum	93.80

4. Concrete Work			
Sl.No.	Description	Unit	Rate
16.	Extra rate for concrete for using 10 mm (nominal size) stone aggregate, instead of 20 mm nominal size stone aggregate.	Cum	186.90
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	381.70
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	300.00
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	261.00
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	248.80
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	225.70
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	201.90
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	403.70

4. Concrete Work			
Sl.No.	Description	Unit	Rate
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	7801.90
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	8581.00
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).	Cum	7876.60
	b) M20 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size).	Cum	7059.30
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	9032.50
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	12071.30
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.		

5. RCC Work			
Sl.No.	Description	Unit	Rate
	a) M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	Cum	8915.10
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	9013.10
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	9986.20
Note : Labour for finishing the treads, risers and nosing and extra lift.			
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	13407.90
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	7801.90
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	348.10
	b) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	474.30
	c) Suspended floors, roofs, landings shelves and their supports, balconies and chajjas (3.5 m height).	Sqm	725.60
Note: Timber used 8 times			

5. RCC Work			
Sl.No.	Description	Unit	Rate
	d) Lintels, beams, girders, bressumers and cantilevers etc.	Sqm	458.60
Note:	Timber used 8 times		
	e) Column, pillars, posts and struts etc.	Sqm	584.60
	f) Stairs (excluding landings) except spiral stair cases.	Sqm	480.50
Note:	Timber used 8 times		
	g) Vertical and horizontal fins individually or forming box louvers bands and facias.	Sqm	683.90
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	11244.40
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	14149.10
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	38592.30
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	16061.30

5. RCC Work			
Sl.No.	Description	Unit	Rate
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	977.50
	b) 40 mm thick	Sqm	707.80
	c) 25 mm thick	Sqm	665.60
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	125.70
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	1347.70
23.	Providing reinforced cement concrete eaves board 25 mm thick and 15 cm to 30 cm wide in M20 mix (1 cement : 1.5 coarse sand : 3 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	63152.10
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.	Per cm depth per cm width per 100 m	260.70
25.	Providing and filling in position blown bitumen in expansion joints.	Per cm depth per cm width per 100 m	881.90
26.	Providing and fixing 6 mm thick 15 cm wide asbestos sheet covering over expansion joints as per design.	Mtr	112.30

5. RCC Work			
Sl.No.	Description	Unit	Rate
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	403.70
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.			
28.	Extra for laying Reinforced Cement Concrete in or under foul position.	Cum per mtr depth	201.90
29.	Reinforced cement concrete M20 (1 cement : 1.5 coarse sand : 3 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	13152.80
	b) Arches up to floor two level.	Cum	8550.00
	c) Domes, vaults and shell roofs up to floor two level.	Cum	8685.60
	d) Chimneys and shafts up to floor two level.	Cum	8647.10
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	472.40
	b) Arches up to 6 mtr span	Sqm	1276.70
	c) Domes, vaults and shell roofs.	Sqm	3373.90
	d) Chimneys and shafts.	Sqm	474.30
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	93.80
32.	Encasing rolled steel sections in beams and columns, with cement concrete M20 (1 cement : 1.5 river sand : 3 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	13582.10

5. RCC Work			
Sl.No.	Description	Unit	Rate
33.	Encasing rolled steel sections in grillages with cement concrete M20 (1 cement : 1.5 coarse sand : 3 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	8424.00
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	484.50
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	93.20
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	41.60
38.	Providing and fixing in position 12 mm thick impregnated fibre board in expansion joints.	Per cm depth per 100 mtr	866.80
39.	Providing and fixing in position GI sheet 24, BG as per design for expansion joints (3 m long, 250 mm width).	Sqm	275.50
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.		

5. RCC Work			
Sl.No.	Description	Unit	Rate
	Mass Concreting by desing mix (maximum cment content to be 400 kg per Cum of concrete)	Cum	20%
	(OR)		
	(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	Cum	7%
	(OR)		
	(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 shirnkeage or plastic shrinkage and cracking by design mix according to size of conrete members, climate conditions)		
	PCC/RCC Concreting by design mix	Cum	15%
	(OR)		
	(iv) Add extra for cost of concreting on grouds or floors by thawing the surface before placing the conrete with suitable tempreture 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	Cum	12%
	(OR)		
	(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 conreting 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	8465.00
2.	Brick work with best available local bricks in foundations and plinth in cement mortar 1:4 (1 cement : 4 fine sand).	Cum	8139.90
3.	Brick work with best available local bricks in foundations and plinth in cement mortar 1:5 (1 cement : 5 fine sand).	Cum	7964.90
4.	Brick work with best available local bricks in foundations and plinth in cement mortar 1:6 (1 cement : 6 fine sand).	Cum	7814.90
5.	Extra for brick work with best available local bricks in superstructure above plinth level up to floor two level.	Cum	212.70
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	340.90
8.	Extra for brick work in square or rectangular pillars.	Cum	347.20
9.	Extra for using best available local bricks in circular pillar.	Cum	2567.30
10.	Extra for making tapered surface of brick masonry.	Sqm	440.50
11.	Half brick masonry (with best available local bricks) in cement mortar 1:3 (1 cement : 3 coarse sand) in foundation and plinth.	Sqm	1024.90
12.	Half brick masonry (with best available local bricks) in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation and plinth.	Sqm	988.00
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	150.80
16.	Brick work with best available local bricks 75 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand).	Sqm	702.50

6. Brick Work			
Sl.No.	Description	Unit	Rate
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	695.20
19.	2nd quality local brick honey-comb half brick work in cement mortar 1:4 (1 cement : 4 fine sand).	Sqm	639.20
20.	Best quality local brick honey-comb half brick work in cement mortar 1:6 (1 cement : 6 fine sand).	Sqm	669.20
21.	2nd quality local brick honey-comb half brick work in cement mortar 1:6 (1 cement : 6 fine sand).	Sqm	613.20
22.	Extra for laying brick work in or under foul position.	Cum	235.00
23.	Joining old brick work with new work.	Sqm	347.70
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	140.20
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	403.70
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			
Sl.No	Description	Unit	Rate
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	3442.10
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	310.40
3.	Extra for random rubble masonry with hard stone in square or rectangular pillars.	Cum	362.80
4.	Extra for random rubble masonry with hard stone in circular pillars.	Cum	976.90
5.	Coursed rubble masonry (first sort) with hard stone in foundations and plinth in cement mortar 1 : 6 (1 cement : 6 fine sand).	Cum	3964.10
6.	Coursed rubble masonry (second sort) with hard stone in foundations and plinth in cement mortar 1 : 6 (1 cement : 6 fine sand).	Cum	3724.60
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	279.10
8.	Extra for coursed rubble masonry with hard stone (first or second sort) in square or rectangular pillars.	Cum	402.70
9.	Extra for coursed rubble masonry with hard stone (first or second sort) in circular pillars.	Cum	1109.70
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	12909.40
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	12673.00
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	12545.70

7. Stone Work			
Sl.No	Description	Unit	Rate
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	12436.50
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	3442.10
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	12909.40
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	12673.00
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	12545.70
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	12436.50

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	588.00
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	1542.20
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	923.60
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	923.60
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	1049.30
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	1049.30
7.	Providing 22 BWG 144 mesh fly proof wire gauge fixed with wooden beading complete (in walls) beading size 75 x 12 mm.	Sqm	434.50
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	1029.00
9.	Single wattle or split bamboo walling including fitting, fixing complete (without plaster).	Sqm	140.40
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	303.00

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	490.30
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	460.90
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	3189.90
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	2790.50
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	2229.60
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	2712.30
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	1809.10
8.	Providing and fixing 30 mm thick wire gauge shutters using galvanized mild		
	a) Approved local wood class A-IV	Sqm	2326.80
	b) 2nd class approved local wood class - B I.	Sqm	1985.60

9. Wood Work			
Sl.No.	Description	Unit	Rate
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	1809.10
	b) Approved local wood class - C.	Sqm	1393.30
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	2641.10
	b) 30 mm thick	Sqm	2474.80
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.		
	a) 40 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	2696.40
	b) 25 mm thick (for cupbaord) including nickel plated bright finished MS piano hinges with necessary screws.	Sqm	1970.60
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 anodised aluminium butt hinges with necessary screws.	Sqm	2416.50
	b) 25 mm thick (for cupbaord) including nickel plated bright finished MS piano hinges with necessary screws.	Sqm	1970.60
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	547.30
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	1309.50
	b) Asbestos cement sheet 4 mm thick.	Sqm	438.20
	c) Glass sheet of 3 mm thick	Sqm	815.90

9. Wood Work			
Sl.No.	Description	Unit	Rate
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 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) with :		
	a) Approved local wood best available class - B.	Sqm	2411.50
	b) 2nd class approved local wood class - B I.	Sqm	2411.50
16.	Providing and fixing MS round or square bars at required spacing in wooden frames of windows and clerestory windows.	Kg	103.50
17.	Providing and fixing MS round or square bars with MS flat at required spacing in wooden frames of windows and clerestory windows.	Kg	95.30
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	369.20
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	3332.60
	b) 35 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	3245.10
	c) 30 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	3206.10
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	3003.40
	b) 30 mm thick including anodized aluminum butt hinges with necessary screws.	Sqm	2821.90

9. Wood Work			
Sl.No.	Description	Unit	Rate
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	135.20
	b) Ornamental grill.	Kg	185.60
	:: 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.	642.30
	b) 100 x 50 x 1.90 mm	Ten Nos.	332.30
	c) 75 x 47 x 1.70 mm	Ten Nos.	278.20
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.	750.90
	b) 250 x 100 x 2.40 mm	Ten Nos.	628.70
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	293.10
	b) 250 x 16 mm	Each	188.90
26.	Providing and fixing MS tower bolts (barrel type) with necessary screws etc complete.		
	a) 250 x 10 mm	Each	92.90
	b) 200 x 10 mm	Each	71.40
	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	154.20
	b) 250 x 20 x 6 mm	Each	134.20
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

9. Wood Work			
Sl.No.	Description	Unit	Rate
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
30.	Providing and fixing MS safety hasp and staple with necessary screws etc complete.		
	a) 150 mm	Each	72.30
	b) 115 mm	Each	68.20
	c) 90 mm	Each	64.60
	: 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	133.90
	b) 125 x 63 x 4 mm	Each	126.70
	c) 100 x 75 x 4 mm	Each	114.30
	d) 100 x 63 x 4 mm	Each	112.80
	e) 100 x 63 x 3.2 mm	Each	112.80
	f) 75 x 63 x 4 mm	Each	99.70
	g) 75 x 63 x 3.2 mm	Each	96.80
	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	278.90
	b) 250 x 16 mm	Each	227.80
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	146.40
	b) 250 x 10 mm	Each	112.10
	c) 150 x 10 mm	Each	76.80
	d) 100 x 10 mm	Each	61.50

9. Wood Work			
Sl.No.	Description	Unit	Rate
34.	Providing and fixing aluminum Handles anodised transparent or dyed to required color or shade with necessary screws etc complete.		
	a) 125 mm	Each	86.50
	b) 100 mm	Each	68.30
	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	249.10
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	505.40
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).		
	a) Rectangular or square	Sqm of door area	174.70
	b) Commercial type door	Sqm of door area	283.90
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	473.30
	b) Commercial type door	Sqm of door area	473.30
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	1311.70
	b) Timber class - B I, 12 mm thick	Sqm	1190.20
	c) Timber class - B II, Scantling (12 mm thick)	Sqm	895.50
	d) Timber class - C, 12 mm thick	Sqm	949.30
	e) Asbestos cement sheet 6 mm thick	Sqm	554.20
	f) Glass sheet 3 mm thick	Sqm	815.90

9. Wood Work			
Sl.No.	Description	Unit	Rate
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	291.20
	b) Timber class - B I	Mtr	278.60
	c) Timber class - B II	Mtr	253.10
	d) Timber class - C.	Mtr	265.70
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	447.40
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	235.60
	b) Commercial wood veneering each face	Mtr	173.90
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	351.50
	b) Timber class - B I	Mtr	336.90
	c) Timber class - B II	Mtr	307.10
	d) Timber class - C	Mtr	321.80
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	568.00
46.	Extra for using veneered particle board in item of pelmet 12 mm thick and 150 mm wide.		
	a) Teak wood veneering each face	Mtr	183.60
	b) Commercial wood veneering each face	Mtr	212.10
47	Providing and fixing 25 mm dia first class Indian teak wood curtain rods with brackets plugs etc wherever required.	Mtr	96.10

9. Wood Work			
Sl.No.	Description	Unit	Rate
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).		
	a) Timber class - A IV	Sqm	2649.40
	b) Timber class - B I	Sqm	2427.40
	c) Timber class - B II	Sqm	2224.70
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	623.30
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	525.20
	b) Timber class - A IV	Sqm	530.90
51.	Sawing charges for converting wooden sleepers of logs into planks and scantlings etc.		
	a) Soft wood	Sqm	37.00
	b) Hard wood	Sqm	57.90
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 (1 cement: 3 coarse sand: 6 graded stone shingle 20 mm nominal size) with :		
	a) Approved local wood best available class - B.	Sqm	2411.50
	b) 2nd class approved local wood class - B I.	Sqm	2411.50
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).	Sqm	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	9347.10
	b) In Tees, Angles and Channels	Quintal	10083.70
	c) In Flats up to 10 mm in thickness	Quintal	9413.90
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	9749.90
	b) In Tees, Angles, Flats and Channels	Quintal	10884.70
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	7364.00
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	162.60
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	2186.80
7.	Providing and fixing 27.5 cm long wire spring grade No. 2 for rolling shutters.	Each	576.50
8.	Providing and fixing top cover for rolling shutters.	Mtr	914.30
9.	Providing and fixing ball bearing for rolling shutters.	Each	504.30
10.	Providing and fixing MS round holding down bolts with nuts and washer plates etc complete.	Quintal	13585.40

10. Steel Work			
Sl.No.	Description	Unit	Rate
11.	Providing and fixing bolts up to 300 mm in length including nuts and washers complete.	Quintal	17205.50
12.	Providing and fixing bolts above 300 mm in length including nuts and washers complete.	Quintal	17205.50
13.	Providing and fixing MS rivets of 16 mm dia & 50 mm long size in position.	Quintal	23879.40
14.	Welding by gas plant	Cm length	7.20
15.	Welding by Electric plant	Cm length	6.10
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	112.70
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	114.50
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	114.50

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	426.20
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	413.20
	b) 50 mm thick	Sqm	485.00
	c) 75 mm thick	Sqm	661.00
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	907.80
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	31.50
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	355.10
	b) 21 mm thick	Sqm	376.10
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	417.00
	b) 21 mm thick with under layer 15 mm thick cement plaster 1 : 3 (1 cement : 3 coarse sand)	Sqm	436.60
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

11. Flooring			
Sl.No.	Description	Unit	Rate
	: 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	1077.20
	b) Light shade pigment with white cement	Sqm	1235.30
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1153.60
	d) White cement without any pigment	Sqm	1175.30
	e) Light shade pigment with ordinary cement	Sqm	1082.90
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	1138.00
	b) Light shade pigment with white cement	Sqm	1370.00
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1246.80
	d) White cement without any pigment	Sqm	1282.10
	e) Light shade pigment with ordinary cement	Sqm	1146.10
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 size 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	1199.50
	b) Light shade pigment with white cement	Sqm	1515.60
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1351.90
	d) White cement without any pigment	Sqm	1404.60
	e) Light shade pigment with ordinary cement	Sqm	1210.80

11. Flooring			
Sl.No.	Description	Unit	Rate
12.	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	1186.60
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1792.40
	d) White cement without any pigment	Sqm	1132.50
	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	1048.10
	b) Light shade pigment with white cement	Sqm	1206.20
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1124.50
	d) White cement without any pigment	Sqm	1152.00
	e) Light shade pigment with ordinary cement	Sqm	1048.20
13.	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
14.	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	-32.60
15.	Extra for providing and fixing aluminum strips 40 mm wide and 1.6 mm thick in joints of terrazzo floor.	Sqm	83.80
16.	Extra for providing and fixing glass strips in joints of terrazzo floor.		
	a) 40 mm wide and 4 mm thick	Sqm	89.50
	b) 40 mm wide and 6 mm thick	Sqm	93.20

11. Flooring			
Sl.No.	Description	Unit	Rate
17.	Extra for terrazzo flooring laid as floor borders, margins and similar bands exceeding 7.5 cm but not exceeding 30 cm in width.	Sqm	24.40
18.	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 :		
19.	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	1618.10
	b) Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	1529.20
	c) Dark shade using ordinary cement	Sqm	1446.40
20.	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	1766.90
	b) Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	1633.50
	c) Dark shade using ordinary cement	Sqm	1509.30
21.	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	1732.70
	b) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1599.30
	c) Dark shade using ordinary cement	Sqm	1475.10
22.	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	2199.90

11. Flooring			
Sl.No.	Description	Unit	Rate
	b) Medium shade using approximately 50% white cement and 50% ordinary cement.	Sqm	2119.50
	c) Dark shade using ordinary cement	Sqm	2055.10
23.	Extra, if terrazzo tiles are laid in treads of steps not exceeding 30 cm in width.	Sqm	47.20
24.	Extra, if cut tiles other than half tiles are used in risers of steps skirting and dado.	Sqm	165.30
25.	Extra for making chequeres of approved pattern on cement concrete floors, landing and pavements etc.	Sqm	31.20
26.	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	2937.50
: WOODEN FLOORING :			
27.	First class Indian teak wood 25 mm wooden plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2772.20
28.	Class - B I Indian teak wood 25 mm wooden plankings tongued and grooved in flooring including fixing with screws complete.	Sqm	2627.30
29.	Class - C wood 25 mm plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2481.30
30.	Class IV wood 25 mm plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2690.00
31.	Soft wood 25 mm plankings tongued and grooved in flooring including fixing with screw complete.	Sqm	2594.20
32.	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	393.00
33.	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	387.10
	b) 50 mm thick	Sqm	452.40
	c) 75 mm thick	Sqm	612.10

11. Flooring			
Sl.No.	Description	Unit	Rate
34.	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	890.00
35.	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).		
	a) Dark shade pigment with ordinary cement	Sqm	1056.90
	b) Light shade pigment with white cement	Sqm	1215.00
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1133.30
	d) White cement without any pigment	Sqm	1155.10
	e) Light shade pigment with ordinary cement	Sqm	1062.60
36.	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.		
	a) Dark shade pigment with ordinary cement	Sqm	1119.30
	b) Light shade pigment with white cement	Sqm	1288.90
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1165.70
	d) White cement without any pigment	Sqm	1263.40
	e) Light shade pigment with ordinary cement	Sqm	1065.00
37.	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.		
	a) Dark shade pigment with ordinary cement	Sqm	1182.70

11. Flooring			
Sl.No.	Description	Unit	Rate
	b) Light shade pigment with white cement	Sqm	1435.40
	c) Medium shade pigment with approximately 50% white cement and 50% ordinary cement.	Sqm	1271.70
	d) White cement without any pigment	Sqm	1387.80
	e) Light shade pigment with ordinary cement	Sqm	1130.60
38.	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
	b) Bottom 31 mm thick layer	Sqm	8.40
	c) Bottom 28 mm thick layer	Sqm	7.70
VITRIFIED TILES FLOORING			
39	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	1678.80
	b) Size of Tile 600x600 mm	Sqm	1798.20
	c) Size of Tile 800x800 mm	Sqm	1947.40
	d) Size of Tile 1000x1000 mm	Sqm	2917.40
VITRIFIED TILES SKIRTING			
40	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	1694.30
	b) Size of Tile 600x600 mm	Sqm	1813.80
	c) Size of Tile 800x800 mm	Sqm	1963.00
	d) Size of Tile 1000x1000 mm	Sqm	2932.90

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	1135.50
	b) 0.63 mm thick GI sheet	Sqm	970.70
2.	Extra for providing and fixing corrugate GI sheets vertically or to a pitch exceeding to 60 degrees.	Sqm	10.50
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	136.30
	b) 0.63 mm thick sheet	Mtr	122.20
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	689.70
	b) 0.63 mm thick GI sheet	Mtr	606.90
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	431.70
6.	Extra for providing and fixing wind ties of 40 x 6 mm flat iron section.	Mtr	162.00
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	115.50
	b) 7 mm thick semi-corrugated sheets	Mtr	115.50
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	422.50
	b) Serrated or plain wing adjustable ridge.	Mtr	322.20

12. Roofing			
Sl.No.	Description	Unit	Rate
9.	Lime concrete terracing on roofs average thickness 10 cm laid to fall with 25 mm gauge brick ballast and 50% mortar consisting of 1lime putty and 2 surki finished with gur and belgiri treatment complete.	Sqm	945.70
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	1869.00
11.	Extra for every additional 5.0 mm thickness of lime concrete terracing.	Sqm	43.80
12.	Painting top of roofs with bitumen of approved quality at 17 Kg per 10 Sq.m. impreganated 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	181.40
	b) With hot cut back bitumen	Sqm	161.80
: 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	1181.60
	b) Timber Plank Class - B I	Sqm	1109.30
14.	Providing and fixing 12 mm thick insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately).	Mtr	1381.20
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	923.20
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	426.30
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).	Mtr	442.00

12. Roofing			
Sl.No.	Description	Unit	Rate
17a	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).	Sq.m.	576.40
18.	Providing and fixing hessian cloth ceiling (10 Oz.) with karai wood beading 38 mm x 20 mm (size of panels 75 cm x 90 cm) (frame work for base to be paid separately).	Sqm	599.70
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	71.60
	b) Local soft wood	Mtr	69.80
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	305.30
22.	Providing and fixing 600 mm long 100 mm dia cement pipe in cement mortar 1 : 4 (1 cement : 4 fine sand).	Each	378.10
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	847.70
	b) 100 mm diameter pipe	Mtr	1025.00
	c)150 mm diameter pipe	Mtr	1558.60
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	154.30
	b) 100 mm diameter	Each	158.50
	c) 150 mm diameter	Each	171.70
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).		

12. Roofing			
Sl.No.	Description	Unit	Rate
	(A) CI Plain bend		
	a) 75 mm diameter	Each	276.40
	b) 100 mm diameter	Each	522.10
	c) 150 mm diameter	Each	890.40
	(B) CI head flat or corner type bend :		
	a) 75 mm diameter	Each	338.70
	b) 100 mm diameter	Each	402.10
	c) 150 mm diameter	Each	939.30
	(C) CI Plain shoes :		
	a) 75 mm diameter	Each	452.10
	b) 100 mm diameter	Each	677.70
	c) 150 mm diameter	Each	829.30
	(D) CI Offset (Plain) :		
	a) 55 mm projection - 75 mm diameter	Each	328.80
	b) 55 mm projection - 100 mm diameter	Each	541.00
	c) 55 mm projection - 150 mm diameter	Each	723.80
	d) 150 mm projection - 75 mm diameter	Each	425.40
	e) 150 mm projection - 100 mm diameter	Each	691.90
	f) 150 mm projection - 150 mm diameter	Each	744.40
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 :		
	a) 80 mm diameter	Each	231.70
	b) 100 mm diameter	Each	235.70
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:		
	a) 80 mm diameter	Mtr	180.40
	b) 100 mm diameter	Mtr	325.20
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).		
	(A) Bend of required degree :		
	a) 80 mm diameter	Each	223.20

12. Roofing			
Sl.No.	Description	Unit	Rate
	b) 100 mm diameter	Each	347.60
	(B) (a) Offset 50 mm projection - 80 mm dia	Each	133.20
	(b) Offset 50 mm projection - 100 mm dia	Each	138.80
	(C) (a) Offset 150 mm projection - 80 mm dia	Each	297.60
	(b) Offset 150 mm projection - 100 mm dia	Each	323.20
	(D) Standard Shoe. :		
	a) 80 mm diameter	Each	133.20
	b) 100 mm diameter	Each	148.80
	(E) Head A.C. :		
	a) 80 mm diameter	Each	158.10
	b) 100 mm diameter	Each	208.00
	: 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	267.20
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	208.70
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	572.30
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	195.80
	c) 10 cm thick thatching	Sqm	125.40
	d) 7.50 cm thick thatching	Sqm	121.40
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	202.30

12. Roofing			
Sl.No.	Description	Unit	Rate
	b) 22.50 cm apart batten	Sqm	174.80
36.	Providing champakampa tarja ceiling with slipt bamboo battens and tied with G.I. wire including fitting and fixing complete.	Sqm	520.20
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	430.50
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	671.10
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	766.10
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	133.40
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	9359.70
	b) Cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	6884.90

12. Roofing			
Sl.No.	Description	Unit	Rate
	c) Cement mortar 1 : 3 (1 cement : 3 coarse sand).	Cum	10473.50
	d) Cement mortar 1 : 4 (1 cement : 4 coarse sand).	Cum	8995.70
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	241.90
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	1090.10
	b)Using 0.71 mm thick Alumunium Corrugated Sheet	Sqm	1155.40
46.	Providing Alumunium 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 Alumunium Troughed Sheet	Sqm	1163.40
	b)Using 0.71 mm thick Alumunium Troughed Sheet	Sqm	1239.20
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 laping as per manufacturer's specification, effective Area Measurable will be $20 \times 3 \times 2.95 \times 1.015 = 179.655$ Sqm	Sq.m.	952.80
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 lenth of 3.05m each require Overall length of 4×3.05 plus 3% wastages = 12.566m After laping as per manufacturer's specification, effective Measurable length will be $(4 \times 3.05) - (3 \times 0.15) = 11.75$ m	Mtr.	747.50

13. Finishing			
Sl.No.	Description	Unit	Rate
	: CEMENT PLASTER :		
1.	12 mm cement plaster 1 : 3 (1 cement : 3 fine sand).	Sqm	188.80
2.	12 mm cement plaster 1 : 4 (1 cement : 4 fine sand).	Sqm	167.50
3.	12 mm cement plaster 1 : 5 (1 cement : 5 fine sand).	Sqm	156.10
4.	12 mm cement plaster 1 : 6 (1 cement : 6 fine sand).	Sqm	146.30
5.	15 mm cement plaster 1 : 3 (1 cement : 3 fine sand) on the rough side of single or half brick wall.	Sqm	223.40
6.	15 mm cement plaster 1 : 4 (1 cement : 4 fine sand) on the rough side of single or half brick wall.	Sqm	198.00
7.	15 mm cement plaster 1 : 5 (1 cement : 5 fine sand) on the rough side of single or half brick wall.	Sqm	184.30
8.	15 mm cement plaster 1 : 6 (1 cement : 6 fine sand) on the rough side of single or half brick wall.	Sqm	172.60
9.	20 mm cement plaster 1 : 3 (1 cement : 3 fine sand).	Sqm	277.20
10.	20 mm cement plaster 1 : 4 (1 cement : 4 fine sand).	Sqm	244.10
11.	20 mm cement plaster 1 : 5 (1 cement : 5 fine sand).	Sqm	226.30
12.	20 mm cement plaster 1 : 6 (1 cement : 6 fine sand).	Sqm	211.00
13.	6 mm cement plaster to ceiling 1 : 3 (1 cement : 3 fine sand).	Sqm	130.70
14.	6 mm cement plaster to ceiling 1 : 4 (1 cement : 4 fine sand).	Sqm	120.10
15.	Neat cement punning.	Sqm	51.20
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	262.60
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

13. Finishing			
Sl.No.	Description	Unit	Rate
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	63.40
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	32.20
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	293.80
: 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	941.30
25.	Extra if white cement is used instead of ordinary cement in top layer of 18 mm plastering with terrazzo finish.	Sqm	161.80
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	117.60
27.	Extra if black colour is added to grey or white cement in top layer of 18 mm plastering with terrazzo finish.	Sqm	105.60
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	105.70
: 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

13. Finishing			
Sl.No.	Description	Unit	Rate
	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	5.30
	: 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
	c) Cut or weather struck pointing.	Sqm	147.90
	d) Raised and cut pointing.	Sqm	196.20
35.	Pointing on stone work with cement mortar 1 : 3 (1 cement : 3 fine sand).		
	a) Flush pointing	Sqm	98.70
	b) Ruled pointing	Sqm	105.20
	c) Cut or weather struck pointing	Sqm	130.70
	d) Raised and Cut pointing	Sqm	192.20
36.	Pointing on brick flooring with cement mortar 1 : 2 (1 cement : 2 fine sand).		

13. Finishing			
Sl.No.	Description	Unit	Rate
	a) Flush pointing	Sqm	80.60
	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	80.10
	: 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	12.80
	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	13.20
	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	13.30
	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
	b) In one coat	Sqm	7.40

13. Finishing			
Sl.No.	Description	Unit	Rate
46.	Hiramachi colour wash on new work (two or more coats) to give an even shade.	Sqm	23.10
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 whiting 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	88.80
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	169.20
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	73.80

13. Finishing			
Sl.No.	Description	Unit	Rate
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	45.60
61.	Coal tarring one coat on old work using 0.12 litre of coal tar per Sq.m.	Sqm	25.90
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
63.	Applying priming coat with ready mixed pink primer of approved brand and manufacture on wood work complete.	Sqm	35.70
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	97.20
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	61.80
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	97.20

13. Finishing			
Sl.No.	Description	Unit	Rate
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	61.80
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	65.10
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	42.10
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	42.10
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	76.90
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	51.10
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	77.50
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	50.50

13. Finishing			
Sl.No.	Description	Unit	Rate
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	51.00
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	106.70
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	67.30
86.	Wall painting (two or coats) with plastic emulsion paint of approved brand and manufacture on new work to give an even shade.	Sqm	85.50
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	54.90
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	127.50
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	135.80
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	28.20
94.	Polishing on wood work with ready mixed superior wax polish of approved brand and manufacture on new work.	Sqm	86.70
95.	Polishing on wood work with ready mixed superior wax polish of approved brand and manufacture on old work.	Sqm	43.60
96.	Floor polishing on masonry or concrete floors with superior brand and manufacture wax polish of approved brand and manufacture.	Sqm	38.30

13. Finishing			
Sl.No.	Description	Unit	Rate
97.	Painting two or more coats on rain water, soil waste and vent pipes and fittings with black anti-corrosive bituminous paint of approved 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	54.40
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	18.20
	c) 150 mm dia	Mtr	26.60
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

13. Finishing			
Sl.No.	Description	Unit	Rate
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	147.20
105.	French spirit polishing (one or more coats) on old work.	Sqm	78.90

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	261.30
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	822.00
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	529.30
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	370.30
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	44.10
	b) Soft wood cleats with iron hinges and screws	Each	41.40
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	1001.90
	b) Glass panes 3 mm thick and area 0.1 Sq.m. each	Sqm	1291.10

14. Repair of Buildings			
Sl.No	Description	Unit	Rate
	c) Frosted Glass panes 2 mm thick and area 0.1 Sq.m. each	Sqm	906.10
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	993.00
	b) Glass panes 3 mm thick and area 1 Sq.m. each	Sqm	1282.20
	c) Frosted Glass panes 2 mm thick and area 1 Sq.m. each	Sqm	897.20
8.	Supplying and fixing new wooden fillets wherever necessary.		
	a) 1st class wood fillets	Mtr	29.10
	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	372.10
11.	Fixing old glass panes with old wooden fillets (excluding cost of fillets).	Sqm	288.20
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	1139.80
	b) Glass panes 3 mm thick	Sqm	1428.90
	c) Frosted glass panes 2 mm thick	Sqm	1044.00
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	538.10
	b) Soft wooden beams (Class - B I)	10 Cudm	526.30
	c) Soft wooden beams (Class - B II)	10 Cudm	514.80
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	562.50

14. Repair of Buildings			
Sl.No	Description	Unit	Rate
	b) Soft wooden beams (Class - B I)	10 Cudm	552.80
	c) Soft wooden beams (Class - B II)	10 Cudm	543.50
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	817.10
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	315.90
2.	Demolishing cement concrete 1 : 3 : 6 or richer mix including disposal off material within 50 metres lead.	Cum	902.60
3.	Demolishing cement concrete 1 : 4 : 8 or leaner mix including disposal of material within 50 m lead.	Cum	557.80
4.	Demolishing RCC work including stacking of steel bars and disposal of un-serviceable materials within 50 metres lead.	Cum	1316.70
5.	Demolishing RB work including stacking of steel bars and disposal of unserviceable materials within 50 m lead.	Cum	1178.60
6.	Extra for cutting reinforcement bars in RCC or RB work.	Sqm	428.80
Note:	Reinforced are considering 1% reinforcement = 0.01 Sq.m.		
7.	Extra for scrapping, cleaning and straightening reinforcement from RCC or RB work.	Quintal	335.10
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	261.50
9.	Demolishing brick work in lime mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Cum	315.90
10.	Demolishing brick work in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Cum	764.40
11.	Removing mortar from and cleaning bricks (Stacks of clean bricks shall be measured).		
	a) From brick work in mud mortar	Cum	867.40
	b) From brick work in lime mortar	Cum	998.20
	c) From brick work in cement mortar	Cum	1251.40
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	1678.70

15. Dismantling			
Sl.No.	Description	Unit	Rate
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	138.00
	b) Of area beyond 3 Sq.m.	Each	188.50
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	53.80
	b) Of area beyond 3 Sq.m.	Each	70.80
16.	Dismantling wooden chajjas and sunshades including stacking of serviceable material and disposal of unserviceable material within 50 m lead.	Sqm	54.60
17.	Dismantling steel work in single section in RS joists including dismembering and stacking within 50 m lead.	Quintal	121.90
18.	Dismantling steel work in single section in channels, angles, tees and flats including dismembering and stacking within 50 m lead.	Quintal	83.00
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	206.50
20.	Dismantling steel work in built up section excluding dismembering and stacking within 50 m lead.	Quintal	138.50
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	31.40
22.	Extra for marking structural steel work required to be re-erected.	Quintal	188.90
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	42.80

15. Dismantling			
Sl.No.	Description	Unit	Rate
24.	Dismantling dry brick pitching in floors, drains etc including stacking of serviceable material and disposal of unserviceable material within 50 m lead.	Cum	488.50
25.	Dismantling GI sheet roofing including ridges, hips, valleys and gutters etc and stacking the material within 50 m lead.	Sqm	61.70
26.	Dismantling asbestos sheet roofing including ridges, hips, valleys and gutters stacking the material within 50 m lead.	Sqm	28.80
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	21.30
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.		
	a) 75 mm dia pipe	Mtr	28.10
	b) 100 mm dia pipe	Mtr	28.90
	c) 150 mm dia pipe	Mtr	33.60
30.	Dismantling of barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 m lead.	Quintal	1365.80
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	33.40
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	107.30
	b) Thickness above 38 mm and up to 75 mm	Sqm	160.90

15. Dismantling			
Sl.No.	Description	Unit	Rate
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	21.00
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	83.30
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 ling RCC standard posts with wooden plugs or 6 mm bar nibs.	Each	1068.00
2.	Supplying at site 2 m long RCC standard struts.	Each	613.00
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	159.60
	b) MS barbed wire	Mtr	159.60
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	135.60
	b) MS barbed wire	Mtr	135.60
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	185.90
	b) MS barbed wire	Mtr	185.90
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	237.10
	b) MS barbed wire	Mtr	237.10

16. Miscellaneous			
Sl.No.	Description	Unit	Rate
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 struted 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 ribs with binding wire including earth work in excavation, concrete work and cost of posts, struts etc complete.	Mtr	1364.00
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	511.40
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	79.90
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	1191.50
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	95.70
	b) Light shade pigment with white cement	Mtr	108.70
	c) Medium shade pigment with 50% white and 50% ordinary cement	Mtr	102.00
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	601.60
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	684.20
16.	Providing and fixing 10 cm dia flue of cement asbestos pipe with necessary specials including fixing in position with iron clamps complete.	Mtr	314.30

16. Miscellaneous			
Sl.No.	Description	Unit	Rate
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	184.50
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	74.20
19.	Providing and fixing 25 x 25 x 1.50 mm angle iron or 25 x 3 mm tread plate to RCC steps.	Mtr	152.10
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 gobi plaster complete.	Each	622.80
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	499.00
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	519.80
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	275.60
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	175.80
25.	Providing and fixing muli bamboo jafri including tying with GI wire complete as per drawing and as directed by Engineer-in-Charge.	Sqm	164.80
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	239.50
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	390.70

16. Miscellaneous			
Sl.No.	Description	Unit	Rate
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	827.20
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	413.60
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	916.60
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	10.20
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	100.10
	b) 125 mm dia	Mtr	112.00
	c) 150 mm dia	Mtr	126.20
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	143.50
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	1248.00

16. Miscellaneous			
Sl.No.	Description	Unit	Rate
39.	Providing and fixing soft wood 'EVE' board 25 mm thick and 225 mm wide including painting two coats complete as directed.	Mtr	368.30
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	1014.40
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	1182.80
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	2887.80
43.	Providing and fixing local wood (Class - B I) skirting (plain) 23 cm deep 25 mm thick including fixing with necessary fittings complete.	Mtr	419.60
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	1423.50
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	3453.40
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	2532.70

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	458.00
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	637.10
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	476.50
	b) 150 mm dia SW pipes	Mtr	631.60
	c) 200 mm dia SW pipes	Mtr	834.70
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	781.90
	b) 150 mm dia SW pipes	Mtr	837.80
	c) 200 mm dia SW pipes	Mtr	962.40
: 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	457.30
	b) 150 mm dia RCC Pipes (NP2)	Mtr	598.40
	c) 250 mm dia RCC Pipes (NP2)	Mtr	881.10
	d) 300 mm dia RCC Pipes (NP2)	Mtr	1161.30

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	2447.30
	b) 600 mm dia RCC pipes (NP2)	Mtr	3489.30
	c) 700 mm dia RCC pipes (NP2)	Mtr	3647.20
	d) 900 mm dia RCC pipes (NP2)	Mtr	5502.70
	e) 1000 mm dia RCC pipes (NP2)	Mtr	6094.70
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	11918.60
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	40618.10
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	5283.50

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	250.10
	b) 20 mm nominal bore	Mtr	290.70
	c) 25 mm nominal bore	Mtr	356.70
	d) 32 mm nominal bore	Mtr	402.60
	e) 40 mm nominal bore	Mtr	497.50
	f) 50 mm nominal bore	Mtr	639.60
2.	Providing and fixing GI pipes complete with GI fittings including trenching and refilling etc (external work).		
	a) 15 mm nominal bore	Mtr	218.40
	b) 20 mm nominal bore	Mtr	248.10
	c) 25 mm nominal bore	Mtr	306.00
	d) 32 mm nominal bore	Mtr	335.70
	e) 40 mm nominal bore	Mtr	400.60
	f) 50 mm nominal bore	Mtr	502.30
	g) 65 mm nominal bore	Mtr	634.70
	h) 80 mm nominal bore	Mtr	791.80
	i) 100 mm nominal bore	Mtr	1158.90
	j) 150 mm nominal bore	Mtr	2065.70
3.	Providing and fixing brass bib cock of approved quality.		
	a) 15 mm nominal bore	Each	312.80
	b) 20 mm nominal bore	Each	336.40
	c) 25 mm nominal bore	Each	345.30
4.	Providing and fixing brass full way valve with wheel of approved quality.		
	a) 32 mm nominal bore	Each	767.00
	b) 40 mm nominal bore	Each	1260.80
	c) 50 mm nominal bore	Each	1872.50
	d) 65 mm nominal bore	Each	2224.90
	e) 80 mm nominal bore	Each	3969.10
	f) 100 mm nominal bore	Each	5896.60
5.	Providing and fixing brass stop cock of approved quality.		
	a) 15 mm nominal bore	Each	312.80
	b) 20 mm nominal bore	Each	416.30
	c) 25 mm nominal bore	Each	345.30
	d) 32 mm nominal bore	Each	556.50
	e) 40 mm nominal bore	Each	1260.90
	f) 50 mm nominal bore	Each	1872.20

18. Water Supply			
Sl.No.	Description	Unit	Rate
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	492.60
	b) 32 mm nominal bore	Each	684.00
	c) 40 mm nominal bore	Each	973.50
	c) 50 mm nominal bore	Each	1523.50
	d) 65 mm nominal bore	Each	2451.30
	e) 80 mm nominal bore	Each	4301.20
8.	Providing and fixing CP brass shower rose with 15 mm or 20 mm dia inlet.		
	a) 100 mm dia	Each	494.50
	b) 150 mm dia	Each	752.30
9.	Providing and fixing ball valve (brass) of approved quality complete.		
	A) High pressure with copper floats		
	a) 15 mm nominal bore	Each	428.20
	b) 20 mm nominal bore	Each	582.90
	B) Low pressure with copper floats		
	a) 15 mm nominal bore	Each	428.20
	b) 20 mm nominal bore	Each	575.60
	c) 25 mm nominal bore	Each	880.30
	C) High or Low pressure with polythene floats		
	a) 15 mm nominal bore	Each	120.10
	b) 20 mm nominal bore	Each	138.00
	c) 25 mm nominal bore	Each	191.60
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	142.90
	b) 32 mm nominal bore	Mtr	190.10
	c) 40 mm nominal bore	Mtr	269.60
	d) 50 mm nominal bore	Mtr	391.10

18. Water Supply			
Sl.No.	Description	Unit	Rate
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	128.80
	b) 25 mm nominal bore	Mtr	173.20
	c) 32 mm nominal bore	Mtr	294.60
	d) 40 mm nominal bore	Mtr	370.10
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	19.00
	f) 50 mm dia pipe	Mtr	23.10
	g) 65 mm dia pipe	Mtr	29.80
	h) 80 mm dia pipe	Mtr	36.00
	i) 100 mm dia pipe	Mtr	44.90
	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 qualtiy.		
	a) 15 mm dia pipe	Mtr	4.00
	b) 20 mm dia pipe	Mtr	5.10
	c) 25 mm dia pipe	Mtr	6.50
	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

18. Water Supply			
Sl.No.	Description	Unit	Rate
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	62.50
	c) 25 mm dia pipe	Mtr	64.20
	d) 32 mm dia pipe	Mtr	65.80
	e) 40 mm dia pipe	Mtr	66.70
	f) 50 mm dia pipe	Mtr	69.20
	g) 65 mm dia pipe	Mtr	109.20
	h) 80 mm dia pipe	Mtr	113.30
	i) 100 mm dia pipe	Mtr	120.80
	j) 150 mm dia pipe	Mtr	137.90

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	8580.70
	b) Orissa Pattern WC Pan	Each	7516.20
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	9546.40
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	8722.30
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	4100.10
	b) Range of two urinals with 10 Litre CI automatic flushing cistern	Each	6115.90
	c) Range of three urinals with 12.5 Litre CI automatic flushing cistern	Each	7929.90
	d) Range of four urinals with 15 Litre CI automatic flushing cistern	Each	10316.40
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	4081.20
	b) Flat back wash basin size 550x400 mm with single 15 mm CP brass pillar taps of heavy quality.	Each	3643.10

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	339.70
8.	Deduct for not providing 32 mm dia MI union.	Each	176.30
9.	Providing and fixing white vitreous china water closet squatting pan size 580 mm size.		
	a) Long pattern (Indian type) WC Pan	Each	1642.70
	b) Orissa type WC pan	Each	2036.40
10.	Providing and fixing white vitreous china pedestal type (European type) WC pan.	Each	3156.20
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	250.60
	b) 250 x 125 x 25 mm	Pair	250.60
12.	Providing and fixing 12.5 litres high level CI flushing cistern of approved make with integral fittings such as ball valve, bell, lever, GI chain and pull complete.	Each	1509.60
13.	Providing and fixing 5 litres CI automatic flushing cistern with fittings.	Each	1112.00
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	842.00
	b) Black plastic seat with lid	Each	347.70
16.	Providing and fixing kitchen sink including making all connection excluding cost of fittings.		
	a) White glazed fire clay sink size 600x450x150 mm	Each	2636.00
17.	Providing and fixing Laboratory sink including making all connection excluding cost of fittings.		
	a) White vitreous china sink 600x400x200 mm	Each	4917.70
18.	Providing and fixing CP Brass Chain and rubber plug complete for sink or wash basins.	Each	189.50
19.	Providing and fixing rubber plug for sink or wash basin.	Each	74.80

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	184.40
	b) 40 mm dia	Each	279.00
22.	Providing and fixing CP Brass or MI trap for wash basin and sinks.		
	a) 32 mm dia	Each	353.20
	b) 40 mm dia	Each	382.30
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	596.20
25.	Providing and fixing in position 25 mm dia mosquito proof coupling of approved municipal design.	Each	1067.10
	: 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 cleats with CP brass screws and washers.	Each	1202.70
27.	Providing and fixing 600 x 120 mm glass shelf with CP brass brackets and guard rail complete, fixed to wooden cleats with CP brass screws.	Each	1583.20
28.	Providing and fixing CP brass towel rail complete with CP brass brackets fixed to wooden cleats with CP brass screws (heavy quality).		
	a) 750 x 20 mm size	Each	708.20
29.	Providing and fixing toilet paper holder.		
	a) CP Brass	Each	945.20
	b) Polished wooden	Each	749.80
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	1057.00
	b) 75 mm dia	Mtr	874.10
	c) 50 mm dia	Mtr	784.30

19. Sanitary Installation			
Sl.No.	Description	Unit	Rate
32.	Providing and fixing sand cast iron heel rest sanitary bend.		
	a) 100 mm dia	Each	395.50
	b) 75 mm dia	Each	359.70
	c) 50 mm dia	Each	328.60
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	588.10
	b) 80 x 80 x 80 mm	Each	495.70
	c) 50 x 50 x 50 mm	Each	389.00
34.	Providing and fixing sand cast iron single equal plain junction of required degree.		
	a) 100 x 100 x 100 mm	Each	467.70
	b) 80 x 80 x 80 mm	Each	465.30
	c) 50 x 50 x 50 mm	Each	105.00
	: SAND CAST IRON TRAP :		
35.	Providing and fixing sand cast iron trap of self cleaning 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	899.90
	b) 100 mm inlet and 75 mm outlet	Each	804.20
	c) 100 mm inlet and 50 mm outlet	Each	719.80
	: 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	527.70
	b) 80 mm dia	Mtr	483.10
	c) 50 mm dia	Mtr	468.10
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	341.70
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	499.00

19. Sanitary Installation			
Sl.No.	Description	Unit	Rate
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 cleaning 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	97.20
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	489.50

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	487.70
1.2.	Powder coated aluminium (minimum thickness of powder coating 50 micron).	kg	524.40
1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kg	533.60
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	559.30
2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron).	kg	596.80
2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron).	kg	606.10
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	1287.00
3.2	Pre-laminated particle board with decorative lamination on both side.	sqm	1348.10
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-incharge. (Cost of aluminium snap beading shall be paid in basic item)		
4.1	With float glass panes of 4.0 mm thickness.	sqm	1037.00
4.2	With float glass panes of 5.5 mm thickness.	sqm	1291.70
4.3	With float glass panes of 8 mm thickness.	sqm	1644.00
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	643.20

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	131.30
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	282.80
	8.2	255 X 19 mm.	each	341.10
	8.3	355 X 19 mm.	each	435.70
	8.4	510 X 19 mm.	each	756.00
	8.5	710 X 19 mm.	each	1360.10
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	674.30
	9.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	each	731.50
	9.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar.	each	745.70
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	493.40
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	451.50
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	81.10
	12.2	Powder coated minimum thickfness 50 micron aluminium.	each	89.80
	12.3	Polyester powder coated minimum thickness 50 micron aluminium.	each	95.60
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	488.90

