

COMMON SCHEDULE OF RATES



SHIMLA FOREST CIRCLE MIST CHAMBER KHALINI SHIMLA

**FOR THE YEAR 2012-13 ONWARDS
(Effective from 01.09.2012)**

PREFACE

The common schedule of work and labour rates of Shimla Forest Circle is revised for the year 2012-13 onwards keeping in view the hike in the daily wages rates of unskilled and skilled labourers engaged in various departments by the H.P. Govt. vide letter Fin (No PR)B(7)-33/2010 dated 25th August, 2012

The work rates fixed are inclusive of the following:

- i) One day paid holiday after six working days to the daily wagers.
- ii) 3% over-head charges to cover the labour expenses like accident, medical treatment, accounting, supervision, transport and other unforeseen expenditure.
- iii) 1½ % water charges of total wages cost.
- iv) The rates provide carriage upto 100 m on head load and 1km by mechanical transport.

All precautions have been observed while framing the schedule of rates. However, comments and suggestions especially with regard to the local conditions to make the schedule rates more useful and comprehensive will be appreciated. Any error/omission is requested to be intimated so that necessary correction is incorporated. Proposals to update the schedule of rates are welcome as the same will be revised/ modified from time to time wherever necessary.

The schedule of rates framed now will be applicable w.e.f. 01-09-2012 onwards in Shimla Forest Circle.

Conservator of Forests,
Shimla Forest Circle,
Shimla.

ABBREVIATIONS

The following abbreviations wherever they appear in the schedule of rates shall have the meaning or implication thereby assigned to them.

Sr No	Abbreviation	Meaning
1	Cum	Cubic metre
2	Sqm	Square metre
3	m	Metre
4	mm	Millimetre
5	cm	Centimetre
6	kg	Kilogram
7	lt	Litre
8	Qtl	Quintal
9	ha	Hectare
10	i/c	Including
11	C.M.	Cement Mortar
12	C.C.	Cement Concrete
13	R.C.C.	Reinforced Cement Concrete
14	M.S.	Mild Steel
15	C.I.	Cast Iron
16	G.I.	Galvanized Iron
17	C.P.	Chromium Plated
18	Cu	Cubic
19	A.C.	Asbestos Cement
20	dia	Diameter

**H.P. FOREST DEPARTMENT
SHIMLA FOREST CIRCLE
SHIMLA**

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S.No.	Category of Daily Labour	Unit	Rate (Rs.)
1	Un-skilled labour Adult Male or Female		
	Adult Male or Female	Per day	150.00
2	Skilled labour		
A.	Building & Road Labour	-do-	150.00
a)	Quarry man (Khangir)	-do-	150.00
b)	Jumper man	-do-	150.00
c)	Driller (for Air Comp)	-do-	150.00
d)	Spray man	-do-	150.00
e)	Carpenter 1st Class	-do-	271.00
f)	Carpenter 2nd Class	-do-	240.00
g)	Mason 1st Class	-do-	271.00
h)	Mason 2nd Class/ Stone Chiseler	-do-	205.00
i)	Painter 1st Class/ Distemper	-do-	205.00
j)	Painter 2nd Class/ White Washer	-do-	165.00
k)	Blacksmith	-do-	192.00
l)	Plumber 1st Class	-do-	192.00
m)	Plumber 2nd Class	-do-	162.00
n)	Bar-binder	-do-	165.00
B.	Mechanical Labour		
a)	Sawmill Operator	-do-	192.00
b)	Assistant Sawmill Operator	-do-	150.00
c)	Cleaner	-do-	150.00
d)	Electrician Grade-I (I.T.I. Diploma holder)	-do-	240.00
e)	Electrician Grade-II -do -	-do-	192.00
f)	Surveyor -do-	-do-	240.00
C.	Timber Extraction Labour		
a)	Feller (Girani)	-do-	150.00
b)	Logger	-do-	150.00
c)	Sawyer (Chirani)	-do-	165.00
d)	Dresser (Pachhani)	-do-	150.00
3	Miscellaneous Labour		
a)	Chowkidar (Office, Depot, Nursery, Plantation and Rest Houses). Khalasi/ Syce/ Bhisti/ Zoo Animal Attendant/ Fire Watcher/ Grinder for chips flooring/ Mate/ Calliper man/ Mali/ Sweeper Enumerator / Enclosure Sweeper/ Charcoal burning Labour	-do-	150.00
b)	Muleteer	-do-	165.00
c)	The per hour rate of part time workers	per hour	19.00
Note. All those engaged on daily wage basis part-time in the Scheduled Tribal areas of the State shall be allowed 25% enhancement on the revised daily wages as per Finance Department's Office Memorandum No. FIN (PR) B (7)33/2010 dated 25-08-2012.			

CHAPTER -II. ROAD/ BUILDING CONSTRUCTION WORK

Sr No	Item description	Unit	Rate (Rs)
a)	Clearing of site/jungle including uprooting rank vegetation, grass, brush wood, tree sapling up to 30 cm girth and removal of such rubbish to a distance of 20 m outside the periphery of the area cleaned.	Sqm	5.80
b)	Bush cutting and clearance per head load of 30 kg	Each	8.50
A.	Earth Cutting (manually)		
	Cutting in earth work and disposal of excavated earth up to a lead of 20m		
i)	Spade work	Cum	60.00
ii)	Pick work	-do-	90.00
iii)	Jumper work	-do-	184.30
iv)	Blasting work		
a)	Soft rock	-do-	136.50
b)	Hard rock	-do-	175.30
v)	Chiseling/wedging out of rock (where blasting is prohibited)		
a)	Soft rock	-do-	431.00
b)	Hard rock	-do-	646.00
vi)	Excavation in saturated soil upto a depth of 1m including pumping, bailing out water & disposing of excavated soil up to a lead of 20 m and lift upto 1.5 m.	-do-	236.00
B.	Earth Cutting (By Mechanical Means)		
	Excavation in earth work in cutting and disposal of excavated earth up to a lead of 7.50 m (by mechanical means).	-do-	As per competitive/ market/ quotation rate.
C.	Dressing		
i)	Surface dressing i/c cutting & filling up to 15 cm		
a)	Spade work	Cum	23.00
b)	Pick work	-do-	24.80
ii)	Removal of snow from road surface height up to 1.50 mtrs.		
a)	Fresh snow	-do-	10.30
b)	Solidified snow	-do-	99.00
iii)	Removal of slips in all kinds of soil (including saturated soil but excluding boulders and rocky portion requiring blasting) up to distance of 20 m disposing of unserviceable material & neatly dressing the surface including stacking of serviceable material.	-do-	102.50
iv)	Removal of boulders or rocky portion of slips (where blasting is required) upto distance of 20 m. Disposing of unserviceable material and neatly dressing the surface including stacking of serviceable material.	-do-	82.00

CHAPTER- III. MASONRY WORK IN ROAD/ BUILDING

Sr No	Item description	Unit	Rate
i)	Dry stone random rubble masonry (un-coursed/ brought to course) in foundation & plinth, walls, retaining walls, parapet walls, breast walls, abutment of culverts, check walls and check dams etc.	Cum	277.50
i)	R.R. stone masonry in mud, cement or lime mortar in foundation and plinth of walls, retaining walls, breast walls, abutment of culverts etc. including dressing of stones and curing complete.	-do-	980.30
iii)	Extra for R.R. stone works :-		
a)	In superstructure upto 3 m height i/c scaffolding.	-do-	196.00
b)	Superstructure above 3 m height i/c scaffolding (for R/walls, B/walls & abutment etc. height of 4 m above ground level shall be reckoned as their level two). In case of abutments and piers this height shall be 6 m above ground level).	-do-	1% of the rate of stone work from plinth to floor two level i.e. upto 3 m height
c)	Square or rectangular pillars	-do-	142.50
d)	Circular Pillars	-do-	414.80
iv)	Squared rubble masonry (H.D.C.R.) coursed with hard stone of approved quality in foundation & plinth of walls, R/walls, B/walls and abutment of culverts etc. including dressing of stones		
a)	Laid dry	-do-	510.00
b)	In mud mortar	-do-	1838.80
c)	In cement mortar	-do-	1833.50
v)	Extra for squared rubble masonry (H.D.C.R.)		
a)	In super structure above plinth level (upto 3 m) height above plinth)	-do-	185.30
b)	Super structure above floor two levels (taking each floor to be of average 3 mtrs. Height)	-do-	1% of the rate of stone works from plinth upto floor two levels.
c)	Square or rectangular pillars	-do-	214.80
d)	Circular pillars	-do-	476.50

CHAPTER- IV. ROAD WORK

Sr No.	Item description	Unit	Rate (Rs)
A.	Sub Grade		
	Preparation of sub grade by dressing to camber (earth work for the cutting involved for sub grade to be paid for separately depending upon the classification of soil) new work	Sq m	0.50
B.	Soling		
a)	Stone soling properly hand packed filling interstices with kharanja stone consolidating with hand ramming to the required grade and camber including spreading watering of binding material i.e. murum and earth etc.	Cum	84.00
b)	Brick soling with over burnt bricks and consolidation with hand ramming, one layer laid flat.	-do-	21.50
c)	Brick soling with over burnt bricks and consolidation with hand ramming, one layer laid on edge.	-do-	27.50
C.	Preparation and Priming of Surfaces		
	Preparation of surfaces by brushing with wire brushes etc. and sweeping with brooms to remove all loose dirt etc.		
a)	New	-do-	2.30
b)	Black surfaces	-do-	7.30
D.	Surface Dressing with Paving/ Cut Back Bitumen		
a)	Surface not previously painted: Surface dressing one coat with bitumen using 18 kg of bitumen or 20 kg cut back per Sqm with 0.15 Cum of stone chipping 12 mm normal size per 10 Sqm of road surface and rolling complete (hiring charges of road roller shall be paid separately, wherever it is used).	Sqm	18.00
b)	Surface previously painted (Renewal Coat): Surface dressing/renewal coat with paving bitumen using 11 kg or 12 kg of cut back per 10 Sqm of road surface and rolling complete (hiring charges of road roller shall be paid separately).	-do-	11.50
c)	Premix Carpet: 2.5 cm consolidated thick single course premix carpet surfacing with 0.036 Cum of stone chipping (20 mm size 0.18 Cum of stone chipping (20mm size 0.18 Cum, 10 mm size 0.12 Cum) mixed with 19.50 kg of bitumen per 10 Sqm of road surface and rolling complete (hiring charges of road roller shall be paid separately).	-do-	21.00
d)	Consolidation and ramming by hand	-do-	8.30

CHAPTER- V. BUILDING WORK

Sr No.	Item description	Unit	Rate (Rs)
A	Earth Work		
1	Excavation in foundation, trenches etc in earth work, lift up to 1.50 m stacking the excavated soil not more than 3 m clear from the edge of excavation and then returning the stacked soil in 15 cm layers, where required, in to plinth, sides of foundation etc. consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth as directed within a lead of 20 m.		
i)	Spade work	Cum	126.50
ii)	Pick work	-do-	157.30
iii)	Jumper work	-do-	292.50
iv)	Blasting work		
a)	Soft rock	-do-	226.50
b)	Hard rock	-do-	288.00
2	Lift: Extra for every additional lift of 1.50 m or part thereof for item:		
i)	Spade work	-do-	9.00
ii)	Pick work	-do-	10.00
iii)	Jumper work	-do-	16.30
iv)	Blasting work		
a)	Soft rock	-do-	15.30
b)	Hard rock	-do-	19.50
B	Filling		
i)	Excavation in earth work (pick work) and filling in foundations plinth and under floors in layers of 15 cm to 25 cm i/c watering, ramming, consolidating and dressing complete.		
a)	Spade work	-do-	108.00
b)	Pick work	-do-	117.00
ii)	Filling in plinth with sand under floor i/c watering, ramming, consolidating and dressing complete.	-do-	50.50
C	Cement/ Lime Concrete in Foundation and Under Floors		
i)	Laying of cement concrete 1: 2: 4 to 1: 6: 12 in foundations, under floors and pavement i/c ramming and curing complete.	-do-	581.30
ii)	Plain C.C. 1: 2: 4 to 1: 4: 8 in walls including buttresses plasters and their caps and bases and string courses etc.	-do-	660.50
D	Damp Proof Course		
i)	Laying of DPC 25 mm, 38 mm & 50 mm thick using 1: 2: 4 cement concrete excluding a coat of hot bitumen.	Sqm	68.50
ii)	Applying a coat of hot bitumen using 1.70 kg of bitumen per 10 Sqm on DPC after cleaning the surface with a piece of cloth thoroughly soaked in kerosene oil.	-do-	8.30

Sr No.	Item description	Unit	Rate (Rs)
E	Brick Work		
a. (i)	Brick work in mud, cement or lime mortar in foundation and plinth in C.M. 1:6	Cum	767.30
ii)	Extra for brick work in superstructure up to 3 m height from plinth level (i/c scaffolding and curing etc.)	-do-	136.30
b.(i)	Extra for superstructure above floor two levels.	-do-	1% of the rate of brick work from plinth upto 3m height (floor two levels).
ii)	Extra for square or rectangular brick pillars	-do-	205.80
iii)	Extra for circular pillars	-do-	482.00
c. (i)	Half brick masonry in cement, lime and mud mortar up to floor level.	-do-	94.80
ii)	Extra for half brick masonry in super structure above floor two levels (for additional floor of 3 m or part thereof, over floor two levels.)	Sqm	22.00
d. (i)	Half brick honey comb brick work with common burnt clay building bricks in cement mortar 1: 4	-do-	104.80
(ii)	Brick tile masonry using common burnt clay brick tiles in foundation and plinth in cement or lime mortar.	-do-	1001.30
(iii)	Extra for common burnt brick tile masonry in:		
a)	Superstructure above plinth level up to floor two level in cement mortar.	Cum	165.50
b)	Superstructure above floor two levels.	-do-	1% of the rate of brick tile masonry from plinth up to floor two levels.
e.	Joining old brick work with new brick work.	-do-	88.30
F	Dhajji Walling:		
	12 cm to 15 cm thick dhajji wall with 2 nd class Kail/ Deodar wood frames wrought on both sides with frames and stones/ brick nagged walls including 12 mm to 20 mm mesh wire-netting on wooden frames (excluding plastering works):		
a)	In mud mortar	Sqm	225.00
b)	In cement mortar	-do-	227.50

Sr No.	Item description	Unit	Rate (Rs)
G	Flooring and Skirting		
	CEMENT CONCRETE FLOORING & SKIRTING		
i)	5 cm (2") thick cement concrete flooring 1: 2: 4 (1 cement, 2 sand and 4 stone ballast 12 mm & down gauge) finished with a floating coat of neat cement.	Sqm	85.00
ii)	4 cm (1½") thick cement concrete flooring 1: 2: 4 (1 cement, 2 sand and 4 stone ballast 12 mm & down gauge) finished with a floating coat of neat cement.	-do-	82.30
iii)	2.5 cm (1") thick cement concrete flooring 1: 2: 4 (1 cement, 2 sand and 4 stone ballast 12 mm and down gauge) finished with a floating coat of neat cement.	-do-	65.80
iv)	Extra for making chequers of approved pattern on cement concrete flooring, steps, landings & pavements etc.	-do-	18.30
v)	Cement plaster skirting (upto 300 mm height) with cement mortar 1:3 finished with a floating coat of neat cement i/c rounding of junctions with floor.		
a)	15 mm thick	-do-	62.00
b)	20 mm thick	-do-	68.00
	TERRAZO FLOORING		
vi)	Laying 40 mm thick marble chips flooring rubbed & polished to granolithic finish under layers of 28 mm to 34 mm thick cement concrete 1: 2: 4 & top layer of 6 mm to 12 mm thick marble chips of required sizes 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) (Dark shade/ Light shade/ White cement/ Medium shade/ White cement without any pigment in top layer only).	-do-	369.30
vii) a)	Marble chips skirting or dado upto 30 cm height (rubbed & polished to granolithic finish laid in cement marble powder by weight) in proportion of 4:7 (4 cement marble powder mix: 7 marble chips by volume) in top layer using any shade pigment with ordinary cement 20mm thick with under layer 14 mm thick in cement: marble 1:3 & top layer 6 mm thick.	-do-	391.80
b)	Extra for work in dado exceeding 30 cm height.	-do-	13.50
c)	Extra for fixing glass strips in joints of terrazzo floors (40 mm wide and 4 mm thick)	-do-	11.80
	TERRAZO TILES FLOORING		
viii)	Precast terrazzo tiles 20 mm thick (with marble chips of specified shade and specified sizes) laid in floors, treads of steps and landing on a bed of 25 mm average thickness of cement mortar 1: 6 (1 cement and 6 sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles (wherever required) including rubbing and polishing complete with tiles of shade viz. grey, silver grey, white medium or dark etc.	-do-	299.80
ix)	...do...fixed on walls on 10 mm thick cement plaster 1: 3.	-do-	322.50

x)	...do... In skirting and risers of steps not exceeding 30 cm in height on 10 mm thick cement plaster, 1: 3 jointed with white cement slurry.	-do-	343.00
Sr No.	Item description	Unit	Rate (Rs)
xi)	White glazed tiles 6 mm (¼") thick in flooring, treads of steps and landings laid on a bed of 12 mm (½") thick cement mortar 1: 3 finished with flush pointing in white cement.	Sqm	400.80
xii)	White glazed tiles 6 mm thick in skirting and risers of steps and dado on 12 mm thick cement plaster (1: 3) and jointed with white cement slurry.	-do-	440.80
xiii)	Planks flooring 2.5 cm to 5 cm thick tongued and grooved i/c fixing with screws to base wooden frame (base frame to be paid separately).	-do-	163.30
xiv)	Planks flooring 4 cm (1½") thick with butt jointed	-do-	132.80
xv)	38 mm thick parquet (wood block) flooring of 1st Class Indian Teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement. 2 sand. 4 stone aggregate 10 mm nominal size) to be paid separately coated with thin layer of hot bitumen (blown type) at the rate of 2.45 kg per Sqm i/c fixing blocks in position complete	-do-	1586.00
xvi)	25 mm thick Deodar wooden flooring laid over RCC/ CC Slab (to be paid separately) thinly coated with thin layers of hot bitumen (Blown type) at the rate of 2.45 kg per sq.m i/c fixing of wooden planks in position over wooden plugs fixed in RCC/ CC floor i/c planning and leveling complete.	-do-	331.00
xvii)	20 cm flagged stone flooring laid in cement mortar 1:5 (1 cement : 5 sand).	-do-	75.00
	BRICK FLOORING		
xviii)	Brick flooring laid dry & grouted with cement mortar 1:4 or 1:6 i/c finishing the joints flush.	-do-	67.30
xix)	Kota stone slab flooring 20 mm thick base of cement mortar 1: 4 laid over and jointed with cement slurry mixed with pigment to match the shade of the slab, i/c rubbing and polishing complete 25 mm thick.	-do-	549.30
xx)	Linoleum covering or vinyl covering to floors laid with an approved adhesive on sub floor i/c cutting & fitting complete.	-do-	23.30
xxi)	Laying marble work (table rubbed and polished) in flooring 20 mm thick in cement mortar 1: 3 (1 cement: 3 sand) including jointing with cement mortar 1:2 (1 white cement: 2 marble dust) with an admixture of pigment to match the shade of marble 20 mm thick white Makrana marble (kitchen shelf).	-do-	1315.50
xxii)	Rectangular Concrete Block Pavement		
	Manufacturing, laying of cement concrete blocks of size 0.45 m x 0.30 m x 0.15 m of cement concrete M 30 grade and spreading 25 mm thick sand underneath and filling joints with sand on existing W.B.M. base	-do-	91.20

xxiii)	Interlocking Concrete Block Pavement		
	i) Laying of Interlocking Concrete Block Pavements having thickness 80 mm	-do-	24.40
	ii) Laying of Interlocking Concrete Block Pavements having thickness 60 mm	-do-	21.50
Sr No.	Item description	Unit	Rate (Rs)
H	Form Work		
	Providing form work of ordinary timber planking so as to give rough finish including centering, shuttering, strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 m and removal of the same for in situ reinforced concrete and plain concrete work in:		
i)	Foundation footings, bases of columns etc. and mass concrete.	Sqm	60.00
ii)	Flat surfaces such as soffits and suspended floors, roofs / slabs, landing shelves, balconies and the like upto 200 mm thickness	-do-	129.50
iii)	Vertical surfaces such as walls (any thickness) partitions & the like i/c attached pilasters, buttresses, plinth & string courses and the like.	-do-	106.00
iv)	Square or rectangular columns, pillars, post and struts	-do-	162.00
v)	Circular or curved in plan	-do-	202.50
vi)	Beams, cantilevers, lintels etc. not exceeding 1 m in depth.	-do-	157.30
vii)	Edges of slab and breaks in floors and walls under 20 cm wide.	Rmt.	25.80
viii)	Stair cases with sloping or stepped soffits i/c risers and stringers excluding landing.	Sqm	163.30
ix)	Weather shade, chhajjas, corbels & chullah hoods i/c edges.	-do-	121.20
x)	Vertical fins and vertical sun breakers.	-do-	219.30
xi)	Extra for providing form work with sheeting of steel sheets so as to give fair finish in foundations, footing flat surfaces, walls, landing columns, pillars and beam sides and soffits, edges of slabs etc.	-do-	27.80
xii)	Providing form work with steel plates 3.15 mm thick welded with angle iron in frame 30 mm x 30 mm x 5 mm, so as to give a fair finish including centering, shuttering and propping etc. with wooden battens and ballies, height of propping and centering below supporting floor to ceiling not exceeding 4 m and removal of the same for in situ reinforced concrete and plain concrete work in :		
a)	Foundation, footings, basis of columns etc. and mass concrete.	-do-	42.30
b)	Flat surfaces such as soffits of suspended floor, roofs, landings and the like:		
	Floors etc. upto 200 mm in thickness.	-do-	91.00
	Floors etc above 200 mm in thickness.	-do-	91.00

c)	Vertical surfaces such as walls (any thickness) partitions and the like including attaches pilasters buttresses, plinth and string courses and the like.	-do-	70.40
d)	Columns, pillars, posts and struts		
(i)	Square, rectangular or polygonal in plan.	-do-	114.40
ii)	Circular or curved in plan.	-do-	143.30
e)	Staircases with sloping or stepped soffits excluding landing.	-do-	104.50
Sr No.	Item description	Unit	Rate (Rs)
f)	Beams, cantilever, girders and lintels.		
i)	Sides and soffits of beams, beam launchings, in depth in all heights from floor.	Sqm	110.20
ii)	Sides and soffits of beams, beam launchings, cantilevers, bressumers and lintels not exceeding 1 m in depth in all heights from floor.	-do-	108.00
g)	Edges of slabs and breaks in floors and walls :		
i)	Under 20 cm wide	Rmt	17.10
ii)	Above 20 cm wide	-do-	17.10
I	Reinforced Cement Concrete		
	RCC work 1: 2: 4 (1 cement, 2 sand and 4 graded stone 20 mm nominal size) i/c curing complete but excluding cost of form work and reinforcement in:		
i)	Foundation, footings, bases of columns & like mass concrete.	Cum	666.50
ii)	Walls (any thickness but not less than 0.10 m thick) i/c attached pilasters, buttresses, plinth and string courses from top of foundation up to floor two level.	-do-	745.80
iii)	Slabs, landing, beams and lintels shelves their supports, balconies, girders, bressumers and cantilevers up to floor two levels.	-do-	715.00
iv)	Independent piers, columns & pillars up to floor two levels.	-do-	1076.30
v)	Staircases (except spiral staircases) excluding landing but including preparation of top surface & finishing of nosing upto floor two levels.	-do-	1072.50
vi)	RCC work in chhajjas 1: 2: 4 (1 cement, 2 sand and 4 graded stone ballast 20 mm nominal size) not exceeding 10 cm thickness up to floor two levels i/c finishing the exposed surfaces with C.M. 1:3 (1 cement and 3 sand) to give a smooth and even surface i/c centering form work & curing complete but excluding bending, binding and placing in position reinforcement.	-do-	3774.00
vii)	RCC work in 1: 2: 4 mix in eaves board 25 mm thick and 10 cm to 30 cm wide up to floor two levels & curing complete excluding cost of reinforcement but i/c form work & centering shuttering.	-do-	3426.50
viii)	Mild steel/ tor steel reinforcement for RCC work including bending, binding and placing in position complete upto floor two levels.	Qtl	662.50

ix)	Extra for rendering smooth top of suspended floors, landing and staircases treads and risers with cement mortar 1:2 including floating coat of neat cement and curing complete and protecting the surface with a layer of 7.5 cm earth laid over 15 mm layers of sand in case of suspended floors and landings and steps etc including subsequent removal of cleaning the same.	Sqm	23.30
x)	Applying cement slurry on RCC slab or CC work using 2.75 kg of cement per Sqm of floor area before laying CC flooring i/c roughening, cleaning of concrete surface complete.	-do-	4.50
Sr No.	Item description	Unit	Rate (Rs)
xi)	Smooth finishing of exposed surface with cement mortar 1:3 in RCC work.	Sqm	64.80
xii)	Extra for additional lift of CC for all RCC/RB work above floor two levels/ ton rate of RCC work from plinth to floor two level	-do-	Per floor 1%of the / m3/Ton ate of RCC work from plinth
J	Wood Work		
1	Frame and Trusses		
i)	Wood work in frames of door, window clerestory windows and other frames wrought framed and fixed in position in first class deodar/ kail/ sal wood.	Cum	4775.00
ii)	Wood work in frames of false ceiling partition etc. and fixed in position in first class deodar/ kail/ sal wood.	-do-	3080.00
iii)	Wood work in trusses, purlins, rafters, posts, plates, wall plates and the like wrought framed hoisted and fixed in position in deodar/ kail/ sal wood.	-do-	5060.00
iv)	Extra for additional labour for circular work such as in frames of fan lights.	-do-	506.00
2	Paneled and Glazed Shutter		
i)	Preparation and fixing of 50 mm thick paneled, glazed or paneled and glazed shutter for doors, windows and clerestory windows i/c black enameled iron but hinges with necessary screws (excluding fixing of doors windows fitting) in first class deo / kail /sal wood).	Sqm	589.30
ii)	Preparation and fixing of 25 mm to 40 mm thick paneled, glazed shutters for cupboard etc i/c fixing of piano-type or black enameled iron hinges in 1st class deodar/ kail wood.	-do-	521.30
iii)	Flush door: Preparation & fixing flush door shutter decorative type core of black board construction with frames of 25 mm to 40 mm 1st class hard wood or deodar wood and well matched 1st class made as teak ply and face veneering on both faces of shutters.	-do-	161.50

iv)	Preparation and fixing of 25 to 40 mm battened framed doors and windows shutters i/c bright finished or/and black enameled iron hinges with necessary screws of deodar/kail wood.	-do-	423.30
v)	Preparation and fixing wire gauge shutters using galvanized M.S. wire gauge of IS designation 85 G with wire of dia 0.56 mm for doors and windows and clerestory window including bright finished/ black enameled iron hinges with necessary screws 30 to 40 mm thick.	-do-	266.50
vi)	Preparation and fixing 25 mm to 40 mm thick louvered shutters with fixed venetians 12 mm thick for windows including black enameled/ bright finished M.S. butt hinges with necessary screws of deodar/ kail wood.	-do-	245.30
Sr No.	Item description	Unit	Rate (Rs)
3	Jafri Work		
i)	Preparation and fixing plain jafri of 40 mm x 12 mm laths placed 40 mm apart (frame to be paid separately) including fixing 50 mm x 12 mm beading complete with deodar/ kail wood.	Sqm	292.30
ii)	Preparation and fixing plain jafri door and window shutters including fixing of MS hinges with necessary screws, 40 mm x 12 mm laths placed 40 mm apart (frame work to be paid separately) including fixing of 50 mm x 12 mm beading complete with deodar/ kail wood.	-do-	340.50
4	Eaves Board and Weather Board		
i)	Preparation and fixing of eaves board 100 mm x 25 mm thick i/c fixing in position of deodar/ kail wood (simple)	Rmt	54.50
ii)	Preparation and fixing of eaves board 200 mm x 25 mm thick i/c fixing in position of deodar/ kail wood (simple)	-do-	60.80
iii)	Preparation and fixing of weather board 100x15 mm thick i/c fixing in position of deodar/ kail wood.	-do-	34.80
5	Beading		
i)	Preparation & fixing plain square edged cover fillets (beading/ moulding) 40 mm x 12 mm and 10 mm x 12 mm sections with wood screws in ceiling and lining i/c mittring at junctions of deo/ kail wood.	-do-	16.30
ii)	Extra for making chamfered edges of beading.	Rmt	8.30
K	Miscellaneous Wood Work		
i)	Preparation and fixing compound gate as per standard design i/c MS straps, clamps, pintel/ set with pin clamps fixed in cement concrete block (50cm x 30cm x 20cm of 1: 3: 6 mix) complete with deo/ kail wood.	Sqm	252.80
ii)	Preparing 50 mm x 50 mm x 50 mm wooden plugs i/c brick/stone work and fixing in cement mortar 1:3 and making good the walls.	Each	6.00
iii)	Preparation & fixing of 40 mm thick plain framed paneling with necessary screws priming coat on un-exposed surface		

	etc. complete.		
	a) Hard wood	Sqm	930.80
	b) Soft wood	-do-	603.80
iv)	Preparation and fixing 12 mm thick and 100 mm wide pelmet with 25 mm diameter wooden curtain rod and bracket i/c fixing 25 mm x 3 mm MS flat 10 cm long and plugs etc. complete		
	a) Hard wood	Rmt	91.80
	c) Soft wood	-do-	78.80
v)	Preparation and fixing 40 mm paneled glazed or paneled and glazed partitions fixed to frame with iron screws etc complete (frame to be paid separately) of deo/ kail wood i/c fixing of superior type plate, frosted, pin head or wire glass in deo/ kail wood).	Sqm	588.50
Sr No.	Item description	Unit	Rate (Rs)
L	Ceiling and Lining		
i)	Preparation and fixing plain lining with tongued and grooved jointing and screws (frame work/cover fillets to be measured and paid separately).		
	a) Hard wood	Sqm	230.30
	b) Soft wood	-do-	163.30
ii)	Preparation and fixing plain skirting with butt jointing and screws (frame work and cover fillets) to be measured and paid separately		
	with 12 mm thick to 20 mm with:		
	a) Hard wood	-do-	206.80
	b) Soft wood	-do-	129.80
iii)	Preparation & fixing lining with butt jointing and screws frame work to be measured and paid separately:		
	a) Hard wood/ deodar wood	-do-	199.80
	b) Soft wood/ kail wood	-do-	132.50
iv)	Preparation and fixing commercial plywood ceiling of approved quality with butt jointing and nails (frame work/cover fillets to be paid separately) 3 mm to 6 mm thick.	-do-	27.00
v)	Extra for fixing plywood with wood screws in place of nails.	-do-	12.00
vi)	Preparation and fixing plywood lining with butt jointing and nails (frame work and cover fillets be measured and paid separately).	-do-	37.50
vii)	Preparation and fixing standard quality hard board sheet lining with butt jointing and nails (frame work and cover fillets to be measured and paid separately).	-do-	28.00
viii)	Preparation and fixing plain asbestos sheet lining with butt jointing and wood screws (frame work and cover fillets to be measured separately) 4 mm to 6 mm thick.	-do-	44.00
ix)	Preparation and fixing plain AC sheet ceiling of approved quality with butt jointing and wood screws (frame work/ cover fillets to be measured and paid separately) 4 mm to 6 mm thick.	-do-	38.50
x)	Preparation and fixing wooden plank ceiling with tongued and grooved jointing and wood screws (frame work and cover fillets to	-do-	145.00

	be measured and paid separately) 12 mm to 20 mm thick of deo/ kail wood.		
xi)	Preparation and fixing wooden plank ceiling with butt jointing and wood screws (frame work and cover fillets to be measured and paid separately) 12 mm to 20 mm thick of deo/ kail wood.	-do-	109.30
xii)	Preparation and fixing wooden plank ceiling with planks overlapping each other and jointed with wood screws (frame work to be paid separately) 12 mm to 20 mm thick deo/ kail wood.	-do-	106.00
xiii)	Extra for providing and fixing ceiling to curved surface in narrow width not exceeding 1.50 m.	-do-	90.30
xiv)	25 mm thick wooden shelves, supported on 40 mm x40 mm x 6 mm T/L iron brackets fixed at suitable distance but not exceeding 75cm apart in 7.5 cm x 15 cm blocks of CC in 1:3:6 with deo/ kail wood.	-do-	254.30
Sr No.	Item description	Unit	Rate (Rs)
xv)	Fixing M.S. round or square bars at required spaces in wooden frames of windows and clerestory windows.	Kg	11.00
xvi)	Preparation and fixing MS grills of required pattern in wooden frame windows etc. with MS flats/ square or round bars with round headed bolts and nuts or by screws (without material):		
a)	MS grill of required pattern.	-do-	25.80
b)	Ornamental grill.	-do-	57.00
xvii)	Preparation and fixing of expanded metal 20 to 60 mm stands 2.50 mm wide and 1.25 mm thick for windows i/c 60 mm x 20 mm beading of hard wood.	Sqm	105.30
xviii)	Preparation and fixing fly proof galvanized MS wire gauge of I.S. 9/15 gauge designation 85 G/140G with wire of 0.56 mm/ 0.71mm to window and clerestory windows i/c 60 mm x 20 mm beading of kail/ deodar wood.	-do-	61.00
xix)	Preparation and fixing of 40 mm x 3 mm flat iron holdfasts 40 cm long i/c fixing to frames with 10mm dia bolts nuts and wooden plugs and embedded in cement concrete block of 30x 10x 15 cm in 1: 3: 6.	Each	21.30
xx)	Preparation and fixing wooden beams i/c hoisting fixing in position and applying wood preservative for the un-exposed surface etc.	Cum	3077.50
xxi)	Preparation and fixing 30 mm to 40 mm wrought treads with rounded nosing and 20 mm wrought risers tongued both edges/glued wedged and blocked complete in deo/ kail wood.	Sqm	490.00
xxii)	Preparation & fixing 75 mm x 60 mm rounded hand rail in straight lengths complete in:		
	a) Hard wood.	Rmt	154.50
	b) Soft wood.	-do-	99.50
xxiii)	Preparation & fixing 75 mm x 60 mm moulded hand rail in straight lengths complete in:		
	a) Hard wood.	-do-	231.80
	b) Soft wood.	-do-	149.30

xxiv)	Extra for hand rail if sunk to receive iron core.	-do-	40.00
xxv)	Preparation and fixing 19 mm thick water proof commercial board in shelves/ box for cupboard with butt joints and fixing with nails and screws etc. complete)	Sqm	40.00
xxvi)	Preparation and fixing 25 mm thick water proof commercial board in shelves/ box for cupboard with butt joints and fixing with nails and screws etc. complete).	-do-	40.00
xxvii)	Preparation and fixing 1 mm thick coloured or plain lamination sheet sunmica on board/ plywood sheet with approved adhesive and nails etc complete.	-do-	72.20
xxviii)	Providing and fixing 25 mm thick commercial board water proof shutters for cupboards i/c fixing with nickel plated piano hinges with screws etc. complete.	-do-	135.50
xxix)	Providing and fixing 19 mm thick commercial board water proof shutters for cupboards i/c fixing with nickel plated piano hinges with screws etc complete.	-do-	135.50
Sr No.	Item description	Unit	Rate (Rs)
M.	Fitting Doors and Windows etc.		
i)	Fixing anodized aluminum sliding door bolt anodized transparent or dyed to required colour and shade with bolts and nuts screws etc. complete 300 x 16 mm or 250 x 16 mm.	Each	16.30
ii)	Fixing tower bolt (barrel type)...do...300 x 10 mm/250 x 10 mm.	-do-	3.30
iii)	Fixing of handles...do... 125,100 and 75mm.	-do-	2.00
iv)	Fixing aluminum fan light pivot with necessary screws etc. complete.	-do-	1.80
v)	Fixing aluminum fan light catch complete.	-do-	2.30
vi)	Fixing 300 mm long aluminum chain for fan light catch i/c necessary screws complete.	-do-	2.50
vii)	Preparation and fixing bright finished brass 100 mm mortice latch and lock a pair of levers, handles with necessary screws etc. complete (Indian make of approved quality).	-do-	55.50
viii)	Fixing chromium plated brass 100 mm rim latch/ mortice latch and lock and six levers with necessary screws etc complete (Indian make).	-do-	55.50
ix)	Fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	-do-	4.50
x)	Fixing 65mm x 35mm special quality chromium plated brass cupboard lock with six levers including necessary screws.	-do-	55.50
xi)	Fixing M.S. pressed butt hinges with necessary screws etc. complete, 125x65x2.12 mm, 100x58x190 mm.	-do-	5.00
xii)	Fixing 1 mm thick M.S. piano hinges finished with brass plating flange being 35 mm wide & fixing with necessary screws.	Rmt.	50.50
xiii)	Fixing MS hooks and eyes.	Each	1.80
xiv)	Fixing MS safety hasp and staple with necessary screws etc.	-do-	2.00
xv)	Fixing bright finished/ black enameled iron helical door springs (150mm).	-do-	13.30
xvi)	Fixing hydraulic door closer all kinds	-do-	48.50
N.	Railing		
i)	Preparation/ fixing wooden railing for compounds and bridges up to 1m height with two heights with two horizontal and two cross members in 75 cm rectangles	Cum	5060.00

	simple.		
ii)	Preparation/ fixing of 75 mm x 75 mm deodar wood rails ornamental supported on 40 mm x 4 mm flat iron of 20 mm dia-round or square bars at 300 mm center to center i/c throating and fixed with nuts complete.	-do-	5060.00
iii)	Fixing made to foundry design CI panels (Anarkali type) in CC 1:2:4 bed with necessary equipment in railings of official/ residential compound	-do-	581.30
O	Roofing		
i)	Corrugated GI sheet roofing 0.80 mm to 0.6 mm fixed with J or L hooks 19 mm dia. GI Limpet and bitumen washers complete.	Sqm	36.00
ii)	Making and fixing of ridges, hips or valleys 60 cm overall in plain GI sheets 0.80 mm / 0.63 mm fixed with J or L hooks 10 mm dia GI limpet and bitumen washers complete.	Rmt	103.30
iii)	Making and fixing of water down pipes 100 mm dia or 150 mm of PGI sheets i/c fixing bends with clamps etc. complete.	-do-	74.50
Sr No.	Item description	Unit	Rate (Rs)
iv)	Preparation and fixing 15 cm wide 45 cm overall semi-circular PGI sheets gutter with iron brackets i/c making necessary connection with down pipes.	Rmt	103.00
v)	Preparation/ fixing flashing 38 cm overall in plain GI sheet fixed with GI J or L hooks, bolts and nuts complete bent to shape and fixed in wall with cement mortar 1: 3.	-do-	106.80
vi)	Asbestos cement sheets corrugated or equivalent roofing fixed GI J or L hooks 10 mm dia GI plain & bitumen washers complete.	Sqm	22.30
vii)	Fixing of AC sheet ridges and valleys with GI J or L hooks complete.	Rmt	23.50
viii)	Slate roofing with 8 cm laps fixed on wooden battens/ planks (wood work to be paid separately).		
	a) Single lap	Sqm	149.50
	b) Double lap	-do-	299.00
ix)	Making water parnalas 25x35 cm wide along the walls with cement mortar 1:4 and finished with a floating coat of neat cement over CC top roofs.	Rmt	56.50
x)	Fixing on wall face CI/ rain water pipes i/c filling the joints with spun-yarn, soaked in mortar 1:2 (1 cement :2 sand)		
	a) 75 mm dia	-do-	28.00
	b) 100 mm dia	-do-	32.30
	c) 150 mm dia	-do-	43.30
xi)	Fixing of MS holder bat clamps of approved quality/design of CI or HCI pipes embedded in 100 cm x 10 cm x10 cm block of cement concrete 1: 2: 4 (1 cement, 2 sand & 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. (75 mm/ 100 mm/ 150 mm dia).	Each	64.00
xii)	Fixing on wall face CI accessories for rainwater pipes including filling the joints with spun-yarn soaked in neat cement slurry and cement mortar 1: 2 (1 cement : 2 sand), (Plain bend/ head flat/ door bend/ corrugated bend/ CI		

	brackets and the like)		
	i) a) 75 mm dia	-do-	9.00
	b) 100 mm dia	-do-	10.50
	c) 150 mm dia	-do-	14.00
	ii) CI offsets		
	a)75 mm dia x 55 mm/ 75 mm/ 115 mm projections.	-do-	9.50
	b) 100mm dia x 55mm/ 75mm projections	-do-	10.50
xiii)	Providing lead caulked joint to sand cast iron rainwater pipes and fittings 75 mm and 100 mm dia.	-do-	74.30
xiv)	Fixing on wall face asbestos cement rainwater pipe i/c jointing with spun-yarn and soaked in neat cement slurry/ bitumen and cement mortar 1: 2 (1 cement : 2 sand) complete.		
	a) 50 mm dia	-do-	18.80
	b) 80 mm dia	-do-	22.00
	c) 100 mm dia	-do-	25.80
Sr No.	Item description	Unit	Rate (Rs)
xv)	Fixing for AC pipe wall plug and standard holder bat clamp comprising of two semicircular halves of flat iron and cast iron base screwed on wooden plugs (50 mm/ 80 mm/ 100 mm dia).	Each	27.00
xvi)	Fixing on wall face asbestos cement fittings for rain water pipe i/c jointing with spun-yarn soaked in bitumen and cement mortar 1: 2 (1 cement : 2 sand) complete (bends/ offsets/ junctions/ equals shoes etc).	-do-	16.80
P	Steel Work		
i)	Steel work welded in built up sections, trusses and framed work i/c cutting, hoisting fixing in position and applying a priming coat of red lead paint.		
	a) In beams joists channels, angles, tee, flats with connecting plates or angle cleats as in main and cross beams, hip & jack rafter, purlins connected to common rafters and the like.	Qtl.	471.80
	b) In gratings framed guard bars, ladders, railings, brackets and similar works.	-do-	1383.20
	c) In trusses and trussed purlins in building.	-do-	666.60
ii)	Steel work bolted in built up sections i/c cutting, hoisting, fixing in position and applying a priming coat of red lead paint, in trusses and trussed purlins in buildings.	-do-	1633.00
iii)	Fixing in position collapsible steel shutter with vertical braced with flat iron diagonals with top and bottom rails of T-iron 40x40x6mm with 38mm dia steel pulley complete with bolt and nuts locking excluding priming coat.	Sqm	1884.30
iv)	Fixing of rolling shutter of approved make of 80 mm x 1.25 mm MS laths interlocked together through their entire length and joined together at the end by end locks rounded on specially designed pipe shaft with brackets side guides and arrangements for inside and outside locking with push pull operation complete, but excluding the cost of the top over and spring.	-do-	185.00

v)	Fixing of MS round holding down or anchor bolts with nuts and washer plates complete.	Qtl	753.00
vi)	Fixing of MS bolts of all size with nuts & washers complete.	-do-	2098.30
Q	Painting and Polishing		
i)	Removing old paint from steel and other metal surfaces and making the surface even with hand scraping or with flame cleaning.	Sqm	32.50
ii)	Applying priming coat over new steel work/ G.I. sheets and other metal surface after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter scoured with wire brushes, fine steel wool, scrapers and sand paper with ready mixed priming paint brushing red lead, red oxide/ zinc oxide chrome.	-do-	13.80
iii)	Applying priming coat on external surfaces on new rainwater pipe, soil pipe and fitting with ready mixed priming paint brushing red lead including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter scoured with wire brushes, fine steel wool scrapers and sand paper.		
	a) 50 mm dia	Rmt	6.00
	b) 75 mm dia	-do-	7.30
	c) 100 mm dia	-do-	8.50
	d) Eaves gutter not exceeding 90 cm in girth	-do-	9.50
Sr No.	Item description	Unit	Rate (Rs)
iv)	(a) Painting one coat (excluding priming coat) on new steel and other metal surfaces with enamel/ ready mixed/ coal tar paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	Sqm	16.80
	(b) Painting two coats (excluding priming coat) on new steel and other metal surfaces with enamel/ ready mixed/ coal tar paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	-do-	23.80
v)	Extra for additional subsequent coat on steel or other metal surfaces with white or any other approved shade in enamel/ ready mixed/ coal tar.	-do-	14.50
vi)	Painting one coat (excluding priming coat) on previously painted rainwater pipe, soil pipe waste and vent pipe and fittings with ready mixed bituminous/aluminum brushing blank anti corrosive to give an even shade including cleaning all dirt, dust and other foreign matter (one coat).		
	a) 50 mm dia	Rmt	6.50
	b) 75 mm dia	-do-	8.00
	c) 100 mm dia	-do-	9.00
	d) 150 mm dia	-do-	11.80
	e) Eaves gutter not exceeding 90 cms in girth	-do-	18.50
vii)	Two coats 50% extra on above rates		
viii)	Removing old paint or polish from wood and wood based surfaces making surfaces even with :		
	a) Paint remover of approved brand	Sqm	25.30
	b) Caustic soda	-do-	20.50

	c) Blow lamp	-do-	35.50
ix) a	Applying priming coat over new wood and wood based surfaces after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter (ready mixed/ pink primer/aluminum water resistant primer/ enamel priming/ wood filler transparent liquid for varnish).	-do-	14.50
b.	Extra over item (viii) and (ix) for every subsequent coat of primer.	-do-	12.30
x)	Applying two coats of wood preservative on new wood and wood based surfaces after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting.	-do-	8.80
xi)	Applying one coat of wood preservative on new wood and wood based surfaces after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting.	-do-	7.00
xii)	Painting two coats (excluding priming coat) on new wood and wood based surfaces with enamel/ready mixed flat oil paint, brushing to give an even shade, including cleaning of all dirt, dust and other foreign matter and sand papering and stopping.	-do-	26.00
Sr No.	Item description	Unit	Rate (Rs)
xiii)	Painting one coat (excluding priming coat) on new wood and wood based surfaces with enamel/ ready mixed flat oil paint, brushing to give an even shade, including cleaning of all dirt, dust and other foreign matter and sand papering & stopping on previously painted wood based surface.	Sqm	18.30
xiv)	Extra over item (xiii) for every subsequent coat of paint.	-do-	15.80
xv)	Varnishing two coats (excluding priming coat) on new wood based surfaces, under coating with flatting varnish and finishing coat with varnish to give an even shade including cleaning the surface of all dirt, dust and other foreign matter and sand papering so as to produce a smooth dry and neat surface.	-do-	41.30
xv)	Varnishing one coat excluding priming coat on old work or previously varnished wood surfaces.	-do-	18.30
xvi)	Polishing two coats with fresh polish on new wood and wood based surfaces to give an even surface i/c cleaning the surface of all dirt dust and sand papered smooth and i/c a coat of wood filler.	-do-	66.00
xvii)	....do...on previously polished wood and wood based surface.	-do-	36.00
xviii)	.....do.... previously varnished wood (one coat).	-do-	18.50
xix)	Applying two coats of raw linseed oil on new wood and wood based surfaces to give an even shade including cleaning the surface of all dirt, dust and sand papering so as to give smooth dry and neat surface.	-do-	11.80
xx)	Applying two coats of raw linseed oil on previously oiled wood and wood based surfaces to give an even shade including cleaning the surface of all dirt, dust and sand papering so as to give smooth dry and neat surface(one coat).	-do-	10.30

xxi)	Applying wax polish on new wood and wood based surfaces with bee wax polish in proportion of 4: 3 (4 bee wax : 3 linseed oil), 2:1 (2 turpentine oil : 1 varnish by weight) to give an even surface including cleaning the surface of all dirt, dust and sand papered smooth.	-do-	29.50
xxii)	Applying wax polish on previously wax polished wood and wood based surfaces with bee wax polish in proportion ibid.	-do-	16.30
xxiii)	Coal tarring two coats on new wood and wood based surfaces using 0.16 and 0.12 lt of coal tar per Sqm in the first and second coat respectively to give an even shade including cleaning of all dirt, dust and other foreign matter.	-do-	23.50
xxiv)	.....do..... previously painted (one coat).	-do-	16.50
xxv)	Applying Birla white wall care putty over plaster surface after thoroughly brushing the surface free from mortar drops, dust, loose materials and other foreign matters sand paper smooth to give final matter finish to the surface complete.	-do-	25.90
xxvi)	Finishing wall with weather proof exterior grade emulsion of approved design (Apexultima) or its equalized on undecorated wall surfaces (two coats) to give an even shade and final finish after thoroughly cleaning the surface to remove all dirt, dust and other foreign matter etc. including sand paper smooth complete.	-do-	23.30
Sr No	Item description	Unit	Rate (Rs)
xxvii)	Wall painting (two coats) with acrylic emulsion paint of approved brand and manufacture for interior grade on undecorated concrete/ stone/ plastered wall surfaces to give an even shade including thoroughly and final finish after thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered including applying of putty required for metling the surface.	Sqm	23.30
R	PLASTERING, POINTING, WHITE OR COLOUR WASHING, DISTEMPERING AND OTHER FINISHES		
1	Cement Plaster		
i)	6 mm thick cement plaster to ceiling in cement mortar 1:3/ 1:4 (cement: sand in respective ratios).	-do-	53.50
ii)	10mm thick cement plaster in 1:3/ 1:4/ 1:5/ 1:6/ 1:7/ 1:8 (cement: sand in respective ratios) in fair/ rough side of brick/ stone/concrete walls for plastering up to floor two level i/c arises internal rounded angles, chamfers and/ or rounded not exceeding 80 mm in girth and finished even and smooth including scaffolding.	-do-	45.00
iii)	15 mm thick cement plaster in 1:3/ 1:4/ 1:5/ 1:6/ 1:7/ 1:8 (cement : sand in respective ratios) in fair/ rough side of brick/ stone/concrete walls for plastering up to floor two level i/c arises internal rounded angles, chamfers and/ or rounded not exceeding 10mm in girth and finished even and smooth i/c scaffolding.	-do-	58.30
iv)	....do..... 20 mm single coat.... do....	-do-	69.80
v)	.....do.... 25 mm single coat... do...	-do-	140.30

vi)	Extra over (item No. i to iii) for finishing with a floating coat of neat cement slurry.	-do-	17.80
2	Mud Plaster		
i)	20 mm to 25 mm thick mud plastering in single coat with chopped straw @ of 33 kg per cubic meter of earth on brick/ stone masonry walls for interior/ exterior plastering up to floor two level including arises, internal rounded angels, chamfers and/ or rounded angles not exceeding 80 mm in girth and finished even and smooth i/c cost for good earth and chopped straw for mud mortar and scaffolding.	-do-	29.30
ii)	Extra over item no.2 (i) for 3mm thick mud/ medgi with gobri leeping over mud plaster.	-do-	9.00
3	Pointing		
i)	Pointing on brick work/ stat with lime or cement 1:2 to 1:6.		
a)	Flush	-do-	51.30
b)	Ruled and cut or weather struck.	-do-	52.80
c)	Raised and cut.	-do-	89.30
ii)	Pointing on flat brick flooring with cement mortar 1:3/ 1:4/ 1:5/ 1:6.		
a)	Flush	-do-	41.00
b)	Ruled	-do-	43.50
iii)	Pointing on tile brick work in lime/cement mortar 1:3/ 1:4/ 1:5/ 1:6.		
a)	Flush	-do-	62.50
b)	Ruled	-do-	66.80
Sr No	Item description	Unit	Rate (Rs)
c)	Cut or weather stuck	Sqm	80.80
iv)	Pointing on stone masonry coursed or ashlar or on concrete block walling with lime/ cement mortar 1:2 to 1:6 (lime putty: surkhi in respective ratios i/c scaffolding).		
a)	Flush	-do-	48.80
b)	Ruled	-do-	50.50
c)	Raised and cut	-do-	82.00
v)	Pointing on random rubble uncoursed stone masonry with lime/cement mortar 1:3 to 1:6 (lime putty : surkhi in respective ratios i/c scaffolding)		
a)	Flush	-do-	59.50
b)	Ruled	-do-	61.80
c)	Raised and cut	-do-	105.00
vi)	Pointing on square rubble coursed or un-coursed stone masonry with lime/cement mortar 1:3 and 1:4 i/c scaffolding		
a)	Flush	-do-	55.50
b)	Ruled	-do-	57.50
c)	Raised and cut	-do-	84.00
vii)	Extra over item No. (i) to (vi) for pointing on walls on the outside at height more than 10 m from ground level for every additional height of 5 m or part thereof.	-do-	1.00

viii)	Pebble dash exterior plaster on walls up to a height of 10 m above ground level with a mixture of washed pebble or crushed stone graded from 6 mm to 12 mm nominal size dashed over and i/c fresh cement plaster in two coats, backing coat 10 mm cement plaster 1:3 (1 cement: 3 sand) and finishing coat 10mm cement plaster 1:3 (1cement: 3 sand) mixed with 10% finely/grounded hydrated lime by volume or cement i/c arises, chamfers and/ or rounded angles not exceeding 80 mm in girth.	-do-	148.80
4	White Washing/ Colour Washing/ Distempering and Other Finishes		
i) a	Removing of white wash/colour wash by steel wire brushing and/ or scraping by sand papering and preparing the surface smooth i/c necessary repairs to scratches complete i/c scaffolding	-do-	4.50
b.	Extra for scrapping on ceiling and/ or sloping roofs	-do-	0.50
ii)	White washing with lime on undecorated surface (two coats) to give an even shade after thoroughly brooming the surface to remove all dirt, dust and other foreign matter i/c scaffolding.	-do-	4.50
iii)	White washing (one coat) on decorated wall surfaces.	-do-	2.50
iv)	Extra over item (ii) & (iii) for every subsequent coat of white washing.	-do-	2.50
v)	Extra over item (ii) & (iii) for white washing with lime on ceiling or sloppy roofs.	-do-	1.00
vi)	Colour washing on un-decorated wall surfaces (two coats) over and i/c priming coat of white washing to give a smooth and even surface after thoroughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matter i/c scaffolding.	-do-	8.80
Sr No	Item description	Unit	Rate (Rs)
vii)	Colour washing with lime on un-decorated wall surfaces (one coat) to give an even shade thoroughly brooming the surface to remove all dirt, dust, mortar drops and loose scales of lime wash and other foreign matter i/c scaffolding.	Sqm	3.30
viii)	Extra over item (vi) & (vii) for every subsequent coat of colour wash.	-do-	3.30
ix)	Extra for colour washing on ceiling and/ or sloping roofs	-do-	1.30
x)	Cement washing with Portland cement slurry on un-decorated wall surfaces (one coat) to give a smooth and even shade i/c brooming the surface to remove all dirt, dust and other foreign matter i/c scaffolding.	-do-	4.50
xi)	Extra for every subsequent coat.	-do-	4.50
xii)	Removing dry or oil bound distemper by washing and scraping and sand papering the wall surface smooth i/c necessary repairs to scratches complete i/c scaffolding	-do-	5.80
xiii)	Extra for removing dry or oil bound distempering on ceiling and or sloping roofs.	-do-	0.50
xiv)	Applying one coat of distemper primer of approved quality and manufacture on wall surfaces after thoroughly brushing the surface free from mortar droppings and other foreign matter i/c preparing the surface even and sand papered	-do-	13.80

	smooth i/c scaffolding.		
xv)	Extra for ceiling and sloppy roofs.	-do-	2.00
xvi)	Distempering with dry distemper of approved brand and manufacture (two coat) and of required shade on un-decorated wall surfaces to give an even shade over and i/c priming coat of whitening after thoroughly brushing the surface free from all dirt, dust, mortar dropping and other foreign matters i/c preparing the surface even and sand papered smooth i/c scaffolding.	-do-	27.50
xvii)	Extra....do... (one coat)	-do-	7.50
xviii)	Extra...do.... every subsequent coat	-do-	5.00
xix)	Distempering (two coats) with dry distemper of approved brand and manufacture and of required shade over and i/c priming coat of distemper /alkali resistance of approved quality after thoroughly brushing the surface free from all dirt, dust, mortar dropping and other foreign matter and preparing the surface even and sand papered smooth, i/c scaffolding.	-do-	35.30
xx)	Distempering (one coat) with oil bound distemper of approved brand and manufacture and of required shade over and i/c a priming coat of distemper / alkali resistance of approved quality after thoroughly brushing the surface free from mortar droppings and other foreign matter and preparing the surface even and sand papered smooth i/c scaffolding.	-do-	14.30
xxi)	Extra for every subsequent coat of distemper over item.	-do-	10.00
xxii)	Extra for ceiling and slopping roofs over item.	-do-	4.00
Sr No	Item description	Unit	Rate (Rs)
xxiii)	Wall painting (two coat with plastic emulsion paint of approved quality and shade on un-decorated wall surfaces to give an even shade i/c thoroughly brushing the surfaces free from all dirt, dust, foreign matters and sand papering if need be i/c scaffolding.	Sqm	24.80
xxiv)	Wall painting (one coat) with plastic emulsion paint of approved quality and shade on un-decorated wall surfaces to give an even shade i/c thoroughly brushing the surfaces free from all dirt, dust, foreign matter and sand papering i/c scaffolding.	-do-	17.50
xxv)	Extra for every subsequent coat.	-do-	12.50
xxvi)	Finishing walls with snowcem on new work (two coats) to give an even shade i/c thoroughly brushing the surfaces free from all dirt, dust, foreign matters and sand papering i/c scaffolding.	-do-	25.00
xxvii)	Finishing walls with snowcem on old work one or more coats to give an even shade i/c thoroughly brushing the surfaces free from all dirt, dust, foreign matters and sand papering i/c scaffolding.	-do-	15.00

xxviii)	Extra for sloping roofs and ceiling.	-do-	4.30
xxix)	Hirmachi colour wash on un-decorated wall surfaces (two coats) to give an even shade including thoroughly brooming the surface to remove all dirt, dust, mortar drops and loose scales or Hirmachi wash and other foreign matter i/c scaffolding.	-do-	3.50
xxx)	Hirmachi colour wash on decorated wall surfaces (one coat) to give an even shade including thoroughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matter i/c scaffolding.	-do-	3.00
xxxi)	Extra for above item for every subsequent coat of Hirmachi or Pille mitee wash.	-do-	3.00

CHAPTER -VI. MISCELLANEOUS

Sr No	Item description	Unit	Rate (Rs)
i)	Making plinth protection with flag stone flooring 40 mm thick over a bed of 15 cm well rammed earth and cement pointing 1:3 (one cement : three sand) in proper shapes as per instruction of work in charge	Sqm	91.00
ii)	Making plinth protection 50 mm thick in cement concrete in 1: 3: 6 (1cement : 3 sand : 6 stone aggregate 20 mm nominal size) i/c finishing the top surface of concrete smooth	-do-	27.30
iii)	Making plinth protection with bricks in cement mortar 1:6 (1 cement : 6 sand) i/c painting top surface of bricks of size 22.9 cm x 11.2 cm X 7 cm).	-do-	87.80
iv)	Brick edging (brick laid on edge) to plinth protection with bricks i/c grounding with cement mortar 1:4.	-do-	7.50
v)	Quarrying of stones from approved quarry.	Cum	613.30
vi)	Collection of loose stone (not quarried).	-do-	108.80
vii)	Collection of boulder stone along khad.	-do-	175.30
viii)	Breaking of loose stone.	-do-	113.80
ix)	Collection and sieving of sand at site.	-do-	187.30
x)	Collection of bajri and roddi at site.	-do-	355.80
xi)	Breaking of boulder stones.	-do-	250.00
xii)	Sieving of sand for plastering.	-do-	102.30
xiii)	Preparation of stone ballast 12 mm down gauge (stone at site).	-do-	681.80
xiv)	Preparation of stone ballast 25 mm down gauge.	-do-	443.00
xv)	Preparation of stone ballast 40 mm down gauge.	-do-	306.80
xvi)	Dressing of stones for coursed rubble masonry (for 1 Cum of stone masonry the stone required is 0.54 Cum).	-do-	510.00
xvii)	Dressing of stones for face work (HDCR).	-do-	100.50
xviii)	Fine chisel dressing (3 line dressing).	-do-	418.00
xix)	Ordinary chisel dressing (2 line dressing).	-do-	213.80

xx)	Rough tooled dressing (1 line dressing).	-do-	83.50
xxi)	Stone filling behind retaining walls/breast walls etc.	-do-	161.30
xxii)	Irish bridge complete with fencing etc. but excluding the cost of abutments and walls etc.	Sqm	62.30
xxiii)	Preparation of Kachha side and cross drains.	Rmt	24.50
xxiv)	Construction of Varanadah post base of stone 25 cm to 30 cm cubes.	Each	97.80
xxv)	Construction of Kharaunja drain 45 cm wide i/c 25 cm side stone i/c dressing laid in:		
a)	Cement mortar 1:6.	Rmt	20.50
b)	Dry.	-do-	12.50
xxvi)	Construction of Kharaunja drain 60 cm wide i/c 25 centimeter side stone laid in:		
a)	Cement mortar 1:6.	Rmt	33.80
b)	Dry.	-do-	23.80
Sr No	Item description	Unit	Rate (Rs)
xxvii)	Construction of open surface drain in HDCR stone masonry 15x23 cm U shape in cement mortar 1:6 and inside plastering 20 mm thick with cement mortar 1:3 i/c earth work and laying 10 cm thick cement concrete 1: 5: 10 and 7.5 cm thick cement concrete 1: 2: 4 i/c 20 mm thick cement plaster 1:3 (1 cement 3 sand) and finished with floating coat of neat cement.	Rmt	241.00
xxviii)	Fixing woven plain GI wire fencing of mesh 50 mm to 150 mm to any type of standard rails staining bolts etc i/c provision of binding wire, stapler etc.	Sqm	10.80
xxix)	Cutting grass, raking into heaps and removing from the premises.	-do-	3.00
xxx)	Quarrying of slates.	-do-	181.30
xxxi)	Fixing jamb lining/moulding with necessary screws and wooden plugs i/c priming coat on un-exposed surface etc. complete with first class deodar wood 25 mm thick.	-do-	780.80

CHAPTER -VII. DEMOLITION / DISMANTLING

Sr. No	Item description	Unit	Rate (Rs)
i)	Demolition below ground level up to 1.5 m depth and disposal of unserviceable material within 20 m lead		
a)	Lime concrete.	Cum	285.00
b)	Un- reinforced CC upto 15 mm thick.	-do-	570.80
c)	Un- reinforced CC beyond 15 mm thick.	-do-	1141.30
ii)	Extra for every additional depth of 1.5 m.	Sqm	25.00
iii)	Demolition below ground level upto 1.5 m depth and disposal of un-serviceable material within 20 m lead i/c stacking of serviceable material separately for RCC/ RBC work.		
a)	RCC work	Cum	3748.80
b)	RBC work	-do-	2341.80
c)	Extra over item no(iii) a & b for every additional 1.5 m depth	-do-	25.80
iv)	Demolition above ground level upto floor two level i/c disposal of un-serviceable material within a lead upto 20 m.		
a)	Lime concrete.	-do-	303.00
b)	Un-reinforced cement concrete upto 15 cm thickness	-do-	608.30
c)	Un-reinforced cement concrete more than 15 cm thickness	-do-	1217.00
v)	Demolition above ground level upto floor two level i/c disposal of un-serviceable material within a lead upto 20 m and i/c cutting the reinforcement separately for RCC/ RBC work.		
a)	RCC work	-do-	4065.50
b)	RBC work	-do-	2534.80
c)	Extra over item no. (iv) & (v) for every additional storey height above floor two level.	-do-	72.00
vi)	Demolition of brick work below ground level upto 1.5 m depth i/c stacking the serviceable material and disposal of unserviceable material within a lead upto 20 m.		
a)	In mud mortar.	-do-	261.00
b)	In lime mortar.	-do-	321.30
c)	In cement mortar.	-do-	700.80
d)	Extra for every additional 1.50 m depth	-do-	23.80
vii)	Demolition above ground level brick/stone work upto floor two levels i/c stacking of serviceable material and disposal of unserviceable material within a lead upto 20 m		
a)	In mud mortar.	-do-	278.30
b)	In lime mortar.	-do-	342.50
c)	In cement mortar.	-do-	800.30
d)	Extra for every additional storey height above floor two level	-do-	72.80
viii)	Demolition of rubble stone masonry below ground level upto 1.5 m depth i/c stacking of serviceable material and disposal of unserviceable material within a lead upto 20m		
a)	Rubble masonry in lime mortar	-do-	321.30
b)	Rubble masonry in cement mortar	-do-	758.00
ix)	Extra over item No. viii (a) & (b) for additional depth 1.5 m.	-do-	25.80

Sr. No	Item description	Unit	Rate (Rs)
x)	Demolition of stone masonry above ground level upto floor two levels i/c stacking of serviceable material within a lead upto 20 m.		
a)	Lime mortar.	Cum	342.50
b)	Rubble masonry in cement mortar.	-do-	800.30
c)	Dressed stone in cement mortar.	-do-	959.50
xi)	Marble/precast concrete work in cement mortar (demolition).	-do-	1198.00
xii)	Extra over item xi for every additional storey height above floor two levels.	-do-	127.30
xiii)	Demolition in terrace i/c stacking of serviceable material and disposal of unserviceable material within a lead of 20m		
a)	Brick tile covering.	Sqm	28.50
b)	Mud phuska.	Cum	269.80
xiv)	Dismantling tiled floor laid in mortar i/c staking of serviceable material and disposal of unserviceable material within a lead upto 20 m (wooden/concrete joists to be measured and paid separately).		
a)	For thickness of tiles upto 25 mm.	Sqm	23.50
b)	-----do-----above 25 to 40 mm.	-do-	350.00
c)	Stone slab/ flagged floor.	-do-	69.00
xv)	Extra over item no (xiv) a, b, c for every additional storey height above floor two levels.		
a)	For thickness of tiles upto 25 mm.	-do-	1.30
b)	-----do-----above 25 to 40 mm.	-do-	2.80
c)	Stone slab/ flagged floor.	-do-	5.80
xvi)	Dismantling of wooden floors i/c stacking of serviceable material and disposal of unserviceable material within a lead upto 20 m joists to be measured and paid separately.	-do-	34.00
xvii)	Dismantling of roofing i/c ridges hips, valleys, gutters etc i/c stacking of serviceable and disposal of unserviceable material within a lead of 20 m.		
a)	CGI sheet roofing.	-do-	45.50
b)	Asbestos cement roofing.	-do-	52.30
c)	Slate roofing.	-do-	88.30
xviii)	Demolition of thatch roofing i/c mats, bamboo jafri, capping to ridges, hips etc i/c stacking of serviceable material within a lead upto 20 m.	-do-	21.80
xix)	Dismantling cement asbestos, celodex hard board in ceiling or partition walls i/c stacking of serviceable material and disposal of un-serviceable material within a lead upto 20 m (frames work such as joists beams to be measured and paid separately).	-do-	22.80
xx)	Demolition of dry brick/stone pitching in floor drain etc. i/c stacking of serviceable material and disposal of unserviceable material within a lead upto 20 m.	-do-	360.30
xxi)	Dismantling stone slab roofing over wooden karries or RCC battens i/c stacking of serviceable material and disposal of un-serviceable material within a lead upto 20 m (wooden karries	-do-	647.30

	or RCC battens to be measured and paid separately).		
Sr. No	Item description	Unit	Rate (Rs)
xxii)	Dismantling wood work, wrought framed and fixed to frames, other frames and trusses of span up to 10 m and height between ridge and floor level upto 5 m i/c stacking of serviceable material within a lead of 20 m.		
a)	Sectional area average 40 Sq cm or over	Cum	882.80
b)	Sectional area under 40 Sq cm.	Rmt	3.50
xxiii)	Dismantling dhajji walling/ trellis, Jafri work i/c stacking of serviceable material within a lead upto 20 m.	Sqm	20.50
xxiv)	Dismantling wooden chhajjas & sun-shades including stacking the material within a lead upto 20 m.	-do-	35.80
xxv)	Dismantling ballies in posts, purlins or rafters i/c stacking the material within a lead upto 20 m.	Rmt	5.00
xxvi)	Dismantling wooden boarding in lining of walls & partitions i/c frame work and stacking the material within 20 m lead, thickness 10 mm to 40 mm.	Sqm	23.30
xxvii)	Dismantling doors, windows and clerestory windows ventilators etc. (wood or steel) i/c chowkhats, architraves holdfasts and other attachments etc, complete and stacking them within a lead upto 20 m.		
a)	Not exceeding 3 Sqm in area	Each	95.80
b)	Exceeding 3 Sqm in area	-do-	128.50
xxviii)	Taking out shutters (steel/wood) of doors, windows, clerestory windows etc. i/c stacking of serviceable material within a lead upto 20 m.		
a)	Not exceeding 3 Sqm in area	-do-	46.30
b)	Exceeding 3 Sqm in area	-do-	64.50
xxix)	Dismantling barbed wire or flexible wire rope in fencing i/c making rolls and stacking within a lead upto 20 m (frame per strand work to be measured and paid separately).	Sqm	6.50
xxx)	Dismantling and stacking within 20 m lead fence posts or struts (wood, steel or RCC) i/c earth work and CC (posts of any size).	Rmt	74.80
xxxi)	Dismantling cast iron or asbestos rainwater 50 mm to 100 mm pipes with fitting and clamps stacking of serviceable material within a lead upto 20 m.	-do-	23.50
xxxii)	Dismantling old cast iron pipes i/c excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into block i/c stacking of pipes within a lead upto 20 m.		
a)	80 mm dia	-do-	26.80
b)	100 mm dia	-do-	30.50
xxxiii)	Labour for cutting CI pipes with steel saw		
a)	80 mm dia	Each cut	29.30
b)	100 mm dia	- do-	41.30
xxxiv)	Scraping/dismantling of mud plaster i/c disposal of unserviceable material within a lead upto 20 m.	Sqm	8.30
xxxv)	.....do.....cement lime plaster	-do-	11.50

CHAPTER- VIII. REPAIR AND MAINTENANCE WORK

Sr. No	Item description	Unit	Rate (Rs)
i)	Renewing wooden battens in roofs including making good holes in walls i/c removal of rubbish to the dumping ground within a lead upto 20 m in first class deodar/kail/ chil wood.	Cum	2472.30
ii)	Renewing wooden beams not exceeding 4 m length in roof i/c making good the holes in walls i/c removal of rubbish dumping ground within a lead upto 20 m in deodar/ kail/ chil wood.	-do-	3783.00
iii)	Fixing of MS fan clamps of standard shape and size i/c cutting and making good.	Each	192.50
iv)	Removal of old broken glass panes (any thickness, size, quality or description) from wood frames glazed with putty or fixed with beads.	Sqm	73.80
v)	.....do..... from metal frames i/c drilling out old glazing pins.	-do-	103.50
vi)	Removal of serviceable glass of any description from old wood or metal frames etc. (any thickness or size) racking out old putty or nails or fillets etc. and making good breakage in taking out and handling i/c stacking within a lead upto 20 m.	-do-	120.30
vii)	Fixing new wooden beads (fillets) wherever necessary in deo/ kail wood.	Rmt	13.00
viii)	Reaffixing of old /new glass panes bedded in putty or old wooden fillets with glazing pins.	Sqm	301.30
ix)	Renewing glazed tiles in patches in area not exceeding 5 Sqm i/c removing old tiles, preparing surfaces and laying or setting new or old tiles complete.	-do-	516.00
x)	.....do.....Terrazzo tiles.	-do-	392.30
xi)	Repair to plaster in patches of 2.5 Sqm and under 10 to 15 mm thick i/c cutting the patch in proper shape re-plastering the surface of the wall i/c disposal of rubbish to the dumping ground within a lead upto 20 m with cement or lime mortar.	-do-	103.00
xii)	Fixing door/ window chowkhats i/c cutting masonry for embedding holdfast in cement mortar 1:4 and making good the damage to walls complete.	Each	316.00
xiii)	.....do..... Clerestory chowkhats.	-do-	162.50
xiv)	Fixing wooden cleats to door, windows with iron fittings i/c removal of old cleats where necessary i/c painting, polishing or bees waxing to match the existing shade of deo/ kail wood.	-do-	7.00
xv)	Clearing of smoke from chimney to make smoke through.	-do-	61.00
xvi)	Fixing of glass pans with putty and nails i/c removal of broken glass panes wherever necessary.	Sqm	100.30

CHAPTER- IX. LOADING/UNLOADING AND CARRIAGE OF MATERIAL

Item No-	Description	Unit	Rate for loading in wagons/non tipping trucks within 20 m lead.	Rates for unloading from non-tipping trucks within 20 m lead
i)	Stones (building or pitching), spall, brick bats, brick ballast, stone metal and sand etc.	Cum	95.50	33.00
ii)	Coal	Qtl	63.00	63.00
iii)	Bricks	1000 Nos.	158.60	158.60
iv)	Cement bags	Each	1.50	1.50
v)	Lime in bulk/bags i/c stacking of bags	Qtl	6.10	6.10
vi)	Structural steel G.I., C.I., C.C., R.C.C. pipes upto 50 mm dia, C.I. man-hole covers, steps and other casting and ancillary items like lead, hemp rope etc.	Tonne	95.50	63.00
vii)	Timber sleepers (standard size)	100 Nos.	315.50	236.30
viii)	Ballies upto 210 mm girth and upto 6 m length.	100 Nos.	158.60	126.10
ix)	Small packages of stores (bulky or non-bulky upto 25 kg) i/c stacking.	Qtl	6.10	6.10
x)	Packages other than machinery i/c stacking			
a)	Above 1 tonne.	Tonne	158.60	158.60
b)	1/2 tonne to 1 tonne	-do-	126.10	126.10
c)	Light (less than 1/2 tonne & more than 25 kg.)	-do-	95.50	95.50
xi)	Machinery	-do-	315.40	315.40
xii)	Bitumen	-do-	32.50	32.50

Stacking within 20 m of the un-loading point into stacks of specified size.			
Item No.	Description	Unit	Rate
i)	Pitching stones, building stones, brick bats, stone ballast , stone metal, coal or shingle	Cum	47.00
ii)	Bricks	1000 Nos	95.50
iii)	Timber	Cum	23.50
iv)	Steel	Tonne	95.50
v)	Bitumen	One drum	3.00
Carriage of materials by manual labour including loading and stacking light material.			
i)	Lime, building rubbish and mud dry	Cum	413.80
ii)	Earth /soil	-do-	543.00
ii)	Manure or sludge	-do-	450.40
iv)	Excavated rock / stone/ all types of stone.	-do-	518.50

v)	Sand, stone aggregate below 40 mm nominal size	-do-	518.50
vi)	Stone aggregate 40 mm nominal size and above	-do-	561.00
vii)	Bricks	1000 Nos	968.10
Item No.	Description	Unit	Rate
viii)	Brick tiles	1000 Nos	604.80
ix)	Steam coal	Tonne	484.00
x)	Slates	1000 Nos.	181.10
xi)	Terrazzo tiles	1000 Nos.	968.10
xii)	Stone blocks, G.I., C.C. pipes below 100 mm dia and other heavy material	Tonne	378.30
xiii)	Cement	-do-	305.80
xiv)	Steel including C.G.I and asbestos sheets	-do-	645.00
xv)	Timber	Cum	414.40
xvi)	Tar, bitumen etc.	Tonne	378.30
	<p>Note:-i) The rates of the carriage shall be reduced by 20% where the mode of transport is by mule and shall only be paid more than 1 Km, distance.</p> <p>ii) The rates of carriage by mechanical transport shall be paid in accordance with the rates paid by the HP Govt. Transport Corporation or Transport Union.</p>		

CHAPTER- X. SOIL CONSERVATION WORK

Sr. No	Item description	Unit	Rate
i)	Weaving of wire netting for wire crate with GI wire 4mm/ 5mm or SWG No 6/ 8 including binding sides and portions to make crate of:		
a)	15 cm X 15 cm and 25 cm X 7.5 cm mesh	Sqm	21.80
b)	7.5 cm X 7.5 cm mesh	-do-	38.30
ii)	Spreading wire crates over pitching connecting with side protection walls inclusive of wire etc.	-do-	29.50
iii)	Filling stones or spalls into crates and hand packing	Cum	144.30
iv)	Tipping wire crates including equipments.	-do-	99.00
v)	Opening out old wire crates and remaking after filling loose stones, if any (repair work only).	Sqm	10.30
vi)	Labour for dismantling existing portion of old protective work including cutting old trangger and stacking of old stones for reuse.	Cum	113.30
vii)	Filling spaces and foundations with old stone obtained from dismantling i/c labour for dismantling.	-do-	508.30
viii)	Dumping stones	-do-	72.00
ix)	Stone pitching upto 15cm thickness		
a)	Horizontal	-do-	234.30
b)	Top coping	-do-	531.80
c)	Slopes of guide banks and protection work	-do-	306.30
x)	Planting of grass tufts at 10 cm x 10 cm spacing in compound of offices/ rest houses and other forest building compounds	Ha	5624.40
xi)	Filling brush wood only i/c bush cutting.	Sqm	14.50
xii)	Filling up stone spalls (for use as graded filter)		
a)	Level.	Cum	72.00
b)	One side slopes behind pitching.	-do-	81.00
xiii)	Construction of check dam/ check wall in dry rough stone masonry i/c rough dressing		
a)	Without crate wire.	-do-	277.50
b)	In crate wire (50% dry stone masonry and 50% filling).	-do-	208.90
xiv)	Spreading, fixing/ tipping of wire crate made of welded GI wire mesh fabric as per IS 4948 and 4825 interconnected by lacing wire as spiral binder of metal coated steel wires used to assemble and interconnect empty welded wire crate units and to close and secure stone filled units filled with boulder spalls against the wire (boulder filling to be measured and paid separately) rates specified for soil conservation and groove fencing purposes (Gabion boxes).		
a)	4mm dia welded wire mesh:		
i)	Size 15 cm x 15 cm	Sqm	0.80
ii)	Size 10 cm x 10 cm	-do-	0.80
b)	5mm dia welded wire mesh:		
i)	Size 15 cm x 15 cm	-do-	0.80
ii)	Size 10 cm x 10 cm	-do-	0.80

CHAPTER- XI. FORESTRY OPERATIONS

Sr No	Description	Unit	Rate (Rs)
A	Seed Collection		
i)	Conifer		
	Deodar	Per kg	265.80
	Kail	-do-	252.00
	Silver fir	-do-	375.00
	Spruce	-do-	368.30
	Chil	-do-	272.80
	Cupressus	-do-	545.50
	Juniper	-do-	545.50
	Taxus baccata	-do-	2115.50
ii)	Broad Leaved		
	Mulbery	-do-	578.00
	Boxwood	-do-	443.30
	Eucalyptus	-do-	409.00
	Ash	-do-	559.00
	Simbal	-do-	443.30
	Jacaranda	-do-	381.80
	Bamboo	-do-	68.30
	Robinia	-do-	368.30
	Khirki/ Carpinus	-do-	266.00
	Behul	-do-	252.00
	Tun	-do-	313.30
	Oaks	-do-	109.00
	Ritha	-do-	177.30
	Amla (fruit)	-do-	108.80
	Amla (seed)	-do-	163.50
	Chuli	do	95.50
	Sain	-do-	170.50
	Jamun	-do-	47.80
	Amaltas	-do-	116.00
	Behmi / wild peach	-do-	150.00
	Horsechestnut (khanor)	-do-	81.80
	Bauhinia (kachnar)	-do-	156.70
	Siris	-do-	116.00
	Dodonea	-do-	143.30
	Terminalia	-do-	136.30
	Walnut	-do-	204.50
	Khair	-do-	88.30
	Shisham	-do-	109.00
	Babool/ kikar	-do-	81.80
	Artocarpus lakoocha	-do-	306.80
	Sal	-do-	109.00
	Neem	-do-	61.30
	Darek	-do-	61.30
	Leucinia	-do-	409.00
	Silver oak	-do-	849.50

	Mango	-do-	61.30
	Celtis	-do-	136.30
Sr No	Description	Unit	Rate (Rs)
	Grawia-elastica	Per kg	245.50
	Maple	-do-	204.50
	Birdcherry	-do-	177.30
	Ailanthus	-do-	204.50
	Rumex	-do-	218.30
	Butea monosperma	-do-	109.00
	Dioscorea	-do-	109.00
	Birch	-do-	784.00
	Kosh	-do-	443.30
	Berberis (dry fruit)	-do-	204.50
	Prinsepia utilis	-do-	204.50
iii)	Grasses		
	Chrysopogon	-do-	1172.80
	Heteropogon	-do-	443.30
	Bothrichloea spp.	-do-	818.30
	Dicanthium annulatum	-do-	852.30
	Other species	-do-	613.30
	Clovers red/ white	-do-	Market rate
	Grass/seeds all types	-do-	409.00
iv)	Bulb/ Rhizome/ Tubers/ Grass roots		
	Collection of dioscorea bulbs	-do-	109.00
	Berberis roots and rhizomes	-do-	204.50
	Grass tufts	-do-	68.30
B.	NURSERY WORKS		
i)	Preparation of new nursery site		
a)	Earth cutting in spade work	Cum	Rates as per item No. A (i-ii)chapter II earth cutting
b)	.....do... pick work	-do-	-do-
c)	Preparation of nursery beds i/c lay out	Sqm	20.50
d)	Mixing of farm yard manure	-do-	2.80
e)	Application of insecticide/pesticide	Per 100 plant	2.00
f)	Preparation of paths	Sqm	6.50
g)	Preparation of water channels 15 cm deep	-do-	6.80
h)	Line sowing	-do-	8.30
i)	Broad cast sowing	-do-	1.80
ii)	Mulching in nursery beds & other operations		
	Providing of shades in beds (excluding the cost of material).		
a)	Polythene sheet shade.	-do-	17.00
b)	Grass shade	-do-	17.80
c)	Hand watering	-do-	1.80
d)	Kuhl/ flooding of beds	-do-	0.80
e)	Weeding/ hoeing of nursery beds	-do-	10.00

f)	Pricking of seedlings in proper spacing	-do-	20.50
g)	Pricking of seedlings in nursery beds and transplanting in other beds in nursery.	-do-	41.00
Sr No	Description	Unit	Rate (Rs)
h)	Preparation of cuttings.		
i)	15 cm (6")	100 Nos.	61.30
ii)	22.5 cm (9")	-do-	61.30
iii)	30 cm (12")	-do-	61.30
i)	Planting of cutting in bed i/c treatment of rooting hormones.	-do-	20.50
j)	Singling of sprouted shoots of cutting.	-do-	54.50
k)	Extraction of entire plants.	-do-	54.50
l)	Packing and mossaing of seedling.	-do-	327.80
m)	Preparation of root/shoot cuttings.	do	75.00
n)	Maintenance of nursery path (thrice a year).	Sqm	2.00
o)	Collection of humus in the forest.	Qtl	47.50
p)	Extraction of plant with ball of earth i/c gachi	100 Nos.	477.30
q)	Preparation of shisham stumps.	100 Nos.	68.30
C.	IN POLYTHENE BAGS		
i)	Filling of polythene bags i/c digging, sieving of earth, mixing of manure, insecticides and pesticides i/c collection and carriage upto nursery site (4" X 9") 10cmX 22 cm.	100 Nos.	231.80
ii)	Lining of polythene bags.	100 Nos	19.50
iii)	Sowing of seed in polythene bags.	100 Nos	17.00
iv)	Mulching of polythene bags.	100 Nos	5.30
v)	Providing of shade to polythene bags		
a.	Polythene sheet shade.	Sqm	17.00
b.	Grass shade.	-do-	17.00
vi)	Watering of plants in polythene bags by alkathene pipe	100 Nos	20.30
vii)	Weeding and hoeing of plants in polythene bags.	100 Nos.	11.80
viii)	Singling of plants in polythene bags.	100 Nos	20.30
ix)	Shifting of polythene bags to avoid rooting.	100 Nos	24.00
x)	Re-sowing of seed in failed polythene bags.	100 Nos.	17.00
xi)	Pricking and setting of seedling in polythene bags.	100 Nos	54.50
xii)	Filling of polythene bags of 5" x 18" (12.5 cm. x 45 cm).	100 Nos	545.50
xiii)	Filling of polythene bags of size 4"x6" including digging of earth, sieving of earth, sieving of sand, CDM and mixing the same including insecticides etc.	100 Nos	105.10
xiv)	Filling of polythene bags size 7"x 15" including digging of earth, sieving of earth, sand and mixing of the same including insecticides, manure and transplanting of plants already grown in 4"x9" (10 cm x22 cm) polythene bags, which also include the removal of a part of ball of earth and untwining	100 Nos	446.30

	strengthening of roots and transplanting the plants in P/bags of size 7"x15" (18 cm x 38cm) are also included, making their root and shoot cutting where required.		
Sr No	Description	Unit	Rate (Rs)
xv)	Filling of cement bags size 8" x 24" (45cm x 60cm) including digging of earth, sieving of earth and sand including mixing of the same, mixing of insecticides, CDM and making root shoot cutting where required and transplanting of plants from 7" x 15" size to cement bags,	100 Nos	2166.60
NOTE:- Wastage of polythene bags @10% maximum is allowed while doing filling and shifting operations.			
D.	CARRIAGE OF PLANTING MATERIAL BY MANUAL LABOUR		
1	Carriage of plants in polythene bags:		
a)	Level work/ downhill side		
i)	4"x9"	100 No / km	163.50
ii)	7"x15"	-do-	900.00
iii)	18"x24"	-do-	As per competitive market/quot a tion rate.
b)	Uphill side		
i)	4"x9"	-do-	218.30
ii)	7"x15"	-do-	1221.00
iii)	18"x24"	-do-	As per competitive market/ quotation rate
2	Carriage of naked root plants (conifer species)		
a)	Level work	-do-	16.30
b)	Uphill side	-do-	35.50
c)	Downhill side	-do-	16.30
E)	FENCING		
1	Barbed Wire Fencing		
i)	Cutting and preparation of wooden post 1.8 m long and 8 to 10 cm dia i/c debarking and fashioning the top 15 cm in conical shape.	100 Nos	1295.00
ii)	Carriage of fence posts upto 2m long and 8 to 10 cm dia.	100 No/ km	681.80
iii)	Charring and coal tarring of the ends of the posts 45 cm bottom and 15 cm conical tarring.	100 No	279.50
iv)	Preparation/ digging of holes 20-30 cm dia and 45 cm deep.	-do-	906.80
v)	Fixing of wooden posts i/c strutting.	-do-	716.00
vi)	Stretching and fixing of barbed wire with U-staple in each strand.	Rmt.	4.80

vii)	Inter locking of thorny bushes with barbed wire obtained from planting site.	Head load	4.00
viii)	Fixing of angle iron fence posts in cement concrete including strutting.	100 No	683.80
ix)	Fixing of barbed wire in angle iron fence posts.	Rmt	4.80
Sr No	Description	Unit	Rate (Rs)
x)	Dismantling and binding of old barbed wire i/c making rolls & stacking within 20 m lead (frame work, wooden posts to be measured separately).	Rmt	3.30
xi)	Repair of barbed wire fencing.	-do-	1.80
xii)	Carriage of barbed wire bundles and angle iron posts		
a)	Level/ downhill side.	Qtl / km	65.50
b)	Uphill side.	-do-	81.80
2	OTHER FENCING		
i)	Fixing of Interlink chain upto 2.5 m height.	Sqm	13.80
ii)	Fixing of Interlink chain beyond 2.5 m height.	-do-	15.80
iii)	Weaving of GI wire through interlink loops at the top edge and fence posts and stretching of GI wire and closing of loops etc.	Rmt	2.50
iv)	Construction of brush wood fence.	-do-	15.80
v)	Thorny brush wood protection guard for road side plantation.	Nos	8.80
vi)	Live hedge fencing of Agave, Ipomea, Durranta, Dodonea viscosa, Rosa spp, Vitex negundo etc.	Rmt	13.30
vii)	Construction of stone fence wall i/c collection and carriage of stone upto 200 m in dry stone masonry.		
a)	0.5 m x 1.00 m heigh	-do-	As per rate of item no(i) of chapter III
b)	0.5 m x 1.50 m height.	-do-	do
F.	SOWING AND PLANTING		
i)	Survey and demarcation of plantation area i/c marking of seditions, path and preparation of map.	ha	101.00
ii)	Collection of debris in small heaps at convenient places.	-do-	511.30
iii)	Burning of debris.	-do-	170.50
iv)	Bush cutting in strips of 1 to 2 m wide with spacing 3m x 3m with areas having more bush 0.50 density and 100 percent disposal.	-do-	1192.80
v)	Preparation of inspection path 60 cm wide	Rmt	11.00
vi)	Lay out of pits and patches.	ha	170.50
vii)	Preparation of patches		
a)	30cm x 30 cm x 25 cm	100 no	327.30
b)	45 cm x 45 cm x 25 cm	-do-	450.00

c)	60 cm x 60 cm x 25 cm	-do	647.50
viii)	Sowing of seed in patches		
a)	30 cm x 30 cm x 25 cm	-do-	95.50
b)	45 cm x 45 cm x 25 cm	-do-	143.30
c)	60 cm x 60 cm x 25 cm	-do-	190.80
Sr No	Description	Unit	Rate (Rs)
ix)	Digging of pits		
a)	30 cm x 30 cm x 30 cm	100 Nos	477.30
b)	45 cm x 45 cm x 45 cm	-do-	954.50
c)	60 cm x 60 cm x 60 cm	-do-	1745.00
d)	90cm x 90 cm x 90 cm	-do-	6238.00
x)	Filling of pits		
a)	30 cm x 30 cm x 30 cm	-do-	191.00
b)	45 cm x 45 cm x 45 cm	-do-	272.80
c)	60 cm x 60 cm x 60 cm	-do-	354.30
d)	90cm x 90 cm x 90 cm	-do-	531.80
xi)	Planting of entire plants in pits i/c ramming.		
a)	Raised in polythene bags.	-do	218.30
b)	Naked root plants.	-do-	183.80
xii)	Planting of tall plants i/c ramming.	-do-	654.30
xiii)	Line sowing of deodar.	Rmt	2.30
xiv)	Broadcast sowing in plantation area.	ha	490.50
xv)	Roadside planting of plants.	100 no	170.50
xvi)	Preparation of gradonial trenches/staggered trenches.		
a)	0.30 m x 0.30 m	Rmt	13.50
b)	0.45 m x 0.45 m	-do-	37.30
c)	0.60 m x 0.60 m	-do-	64.80
xvii)	Planting in gradonial trenches half filled 15 cm dia	100 no	3.00
xviii)	Preparation of furrows for live hedge fencing.	Rmt	1.50
xix)	Planting of live hedge plant species in furrows.	-do-	11.80
xx)	Mulching of plants.	100 no	84.80
xxi)	Weeding and hoeing of plants.	-do-	81.80
xxii)	Preparation of strips i/c sowing in strips 100 cm x 30 cm x 5 cm for grass sowing along contour at interval 2 m apart.	-do-	920.00
xxiii)	Re-digging of pit in failed pits.		
a)	30 cm x 30 cm	-do-	238.50
b)	45 cm x 45 cm	-do-	477.30
c)	60 cm x 60 cm	-do-	1048.00
d)	90 cm x 90 cm	-do-	3742.50
xxiv)	Preparation mound for vetiver grass.	-do-	170.50
xxv)	Planting of grass strips in mound.	-do-	681.80

xxvi)	Bulb and tuber planting.	-do-	817.80
xxvii)	Dibbling of seed.	ha	129.20
xxviii)	Bush cutting of lantana		
a)	100% lantana cutting with uprooting	-do-	21815.80
b)	75 % lantana cutting with uprooting	-do-	16361.80
c)	50% lantana cutting with uprooting	-do-	10579.00
Sr No	Description	Unit	Rate (Rs)
G.	SILVICULTURAL OPERATIONS		
i)	Enumeration of trees.	100 Nos	177.30
ii)	Marking of trees conifers for sale.	-do-	265.80
iii)	Hammering of trees in thinning and dead dying	-do-	20.30
iv)	Enumeration of trees for resin tapping.	-do-	177.30
v)	Belting of trees with white paint for seed stands	-do-	340.80
vi)	Selection and numbering of superior trees for seed stand.	-do-	204.50
vii)	Debris collection and burning.	ha	681.80
viii)	Cleaning and un-saleable thinning (non-commercial) in regeneration areas.	-do-	1772.80
ix)	Climber cutting in the forests/ plantation area	-do-	859.00
x)	Commercial/ mechanical thinning all grades	-do-	Class-wise rates of felling to be applicable
xi)	Hygienic felling	-do-	-do-
xii)	Kikar felling	-do-	-do-
xiii)	Preparation of fire lines 2.5 m, 4.5 m, 10m wide	Sqm	5.30
xiv)	Burning/maintenance of lines	-do-	0.80
xv)	Control burning of conifer forests.	ha	183.80
xvi)	Pruning of established saplings in plantation 1/3portion	100 no	170.50
xvii)	Marking of standards in B.L. Coupe.	-do-	341.00
xviii)	Carving of number in marking trees.		
a)	Conifer.	-do-	422.50
b)	Broad leaved.	-do-	422.50
xix)	Measurement seedling for research work in nursery.	-do-	204.50
H.	DEMARCATION		
i)	Checking of demarcation with prismatic compass i/c chaining.	km	681.80
ii)	Measurement with chain.	-do-	272.80
iii)	Construction of standard boundary pillars in H.D.S.M.		
a)	Large 1 m x1 m at base 0.60 m x 0.60 m top and 1 m height 0.25 m foundation.	Each	508.00
b)	Small 0.60 m X 0.60 m at base 0.30 m X 0.30 m at top and 0.60 m height, 0.15 m foundation.	-do-	318.00
iv)	Repair of boundary pillars.		
a)	Large.	-do-	170.50
b)	Small.	-do-	102.30

v)	Alignment of boundaries of compartment, sub compartment and sections with ranging rod and flag & putting rings on trees.	km	477.30
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S No.	Item Description	Unit	Rate	
I.	CONVERSION OF TIMBER INCLUDING FELLING & LOGGING			
i)	Felling of trees		Conifer	B L
	ID 152 cm and above	Per tree	600.00	747.50
	ID 121 to 152 cm	-do-	498.80	698.10
	ID 91 to 121 cm	-do-	449.00	649.00
	IC 81 to 91 cm	-do-	400.00	600.00
	IB 71 to 81 cm	-do-	295.00	498.30
	IA 61 to 71 cm	-do-	196.80	400.00
	IIB 51 to 61 cm	-do-	124.50	196.80
	IIA 41 to 51 cm	-do-	75.40	98.40
	III 31 to 41 cm	-do-	49.10	75.40
	IV 21 to 31 cm	-do-	26.10	39.40
	V upto 21 cm	-do-	9.80	16.30
ii)	Uprooting of stumps	-do-	Double rates of felling for respective class of trees.	
iii)	Logging and squaring by hand sawing	Cum	400.00	600.00
iv)	Logging by hand sawing.	-do-	173.80	258.80
v)	Conversion of logs into sleepers and scants by hand sawing	-do-	1245.80	1966.90
vi)	Conversion of sleepers into battens etc. by hand sawing	Rmt	30.00	-----
vii)	Conversion of sleepers into planks of all size by hand sawing	Sqm	159.50	-----
Note: Conversion of timber into required sizes by sawmills, the rates will be as per competitive market rate or as per approved rates by HP State Forest Development Corporation Ltd. issued from time to time.				

CHAPTER- XII. WATER SUPPLY, PLUMBING AND SANITARY FITTINGS

Note: 1) All materials and fittings shall conform to the relevant Indian Standards.

2) For items of work like brick work, concrete etc. reference may be made to the respective chapter of the Building schedule in cases where the items to be executed are not covered by the scheduled items as listed below in this chapter.

GALVANISED MILD STEEL TUBES/PIPES AND FITTINGS			
Sr No	Item description	Unit	Rate (Rs)
A	Water Supply:		
1	Providing and fixing to wall ceiling and floor galvanized mild steel tubes (light/ medium or heavy grade) tube fittings and clamps including making good the wall, ceiling and floor. (internal work)		
a)	15 mm nominal bore	Rmt	30.30
b)	20 mm nominal bore	-do-	31.30
c)	25 mm nominal bore	-do-	34.30
d)	32 mm nominal bore	-do-	41.50
e)	40 mm nominal bore	-do-	52.80
f)	50 mm nominal bore	-do-	64.00
2	Providing and laying in trenches, galvanized mild steel tubes (light, medium and heavy grade), tube fittings (earth work in trenches to be measured and paid separately). (external work)		
a)	15 mm nominal bore	-do-	5.50
b)	20 mm nominal bore	-do-	5.50
c)	25 mm nominal bore	-do-	8.30
d)	32 mm nominal bore	-do-	8.30
e)	40 mm nominal bore	-do-	11.00
f)	50 mm nominal bore	-do-	11.00
g)	65 mm nominal bore	-do-	20.00
h)	80 mm nominal bore	-do-	20.00
i)	100 mm nominal bore	-do-	29.30
3	Making connection of galvanized steel distribution branch with galvanized mild steel main 20 mm to 40 mm nominal bore by providing and fixing tee including cutting and threading the pipes complete.	Each	155.50
4	Making connection of galvanized mild steel distribution branch with galvanized mild steel main by providing and	-do-	194.50

	fixing tee including cutting and threading the pipes complete 100 mm to 150 mm dia.		
5	Fixing water meter and stop-cock in galvanized mild steel tube including necessary fittings such as mild steel galvanized nut, sockets, etc., cutting and making long screws complete (water meter and stopcock to be measured and paid separately) 15 mm to 50 mm nominal bore.	-do-	155.50
Sr. No	Item description	Unit	Rate (Rs)
	M.S. SHEET STORAGE TANKS		
6	Fixing M.S. sheet tank riveted to 30 mm x 30 mm angle iron frame complete with 40 mm nominal bore galvanized mild steel scour tube with fittings. 25 mm nominal bore galvanized mild steel over-flow tube with fittings and mosquito proof coupling of approved municipal design, 15 mm nominal bore ball valve and mosquito proof galvanized mild steel cover with locking arrangement including providing pads to size as required for inlet and outlet tubes, inside painting with a priming coat of red lead and three coats of bituminous paint including hoisting upto a height of 10 m above ground level		
a)	270 lt net capacity storage tank of 2.00 mm thick M.S. Sheet.	Each	1993.50
b)	540 lt net capacity storage tank of 2.80 mm thick M.S. Sheet.	-do-	2612.50
c)	810 lt net capacity storage tank of 2.80 mm thick M.S. Sheet.	-do-	3295.50
d)	1080 lt net capacity storage tank of 2.80 mm thick M.S. Sheet.	-do-	3691.50
e)	1350 lt net capacity storage tank of 3.15 mm thick M.S. Sheet.	-do-	3987.30
f)	1620 lt net capacity storage tank of 3.15 mm thick M.S. Sheet.	-do-	4165.00
g)	1800 lt net capacity storage tank of 3.15 mm thick M.S. Sheet.	-do-	4371.00
7	Fixing M.S. sheet storage tank welded all around complete with 40 mm nominal bore galvanized mild steel scour tube with fittings, 25 mm nominal bore galvanized mild steel overflow tubes with fittings and mosquito proof coupling of approved municipal design, 15 mm nominal bore ball valve and mosquito proof galvanized mild steel cover with locking arrangement including providing pads to sizes as required for inlet and outlet tubes, inside painting with a priming coat of red lead and three coats of bituminous paint including housing upto a height of 10 m above ground level		
a)	270 lt net capacity storage tank of 2.00 mm thick M.S. Sheet.	-do-	530.00
b)	540 lt net capacity storage tank of 2.80 mm thick M.S. Sheet.	-do-	530.00
c)	810 lt net capacity storage tank of 2.80 mm thick M.S. Sheet.	-do-	706.50
d)	1080 lt net capacity storage tank of 2.80 mm thick M.S. Sheet.	-do-	883.30
8	Extra for hoisting tanks for every additional height of 5m or part thereof		
a)	270 lt capacity		99.30
b)	540 lt capacity	-do-	186.30
c)	810 lt capacity	-do-	229.00
d)	1080 lt capacity	-do-	272.50
e)	1350 lt capacity	-do-	323.00
f)	1620 lt capacity	-do-	341.00
g)	1800 lt capacity	-do-	435.30

B.	PLUMBING : SAND CAST IRON/CAST IRON SPUN, SOIL WASTE AND VENTILATING PIPES:		
1	Providing and fixing sand cast/cast iron spun spigot and socket soil, waste and ventilating pipes (lead caulked joints to be measured and paid separately)		
a)	50 mm nominal size	Rmt	22.00
b)	75 mm nominal size	-do-	25.00
c)	100 mm nominal size	-do-	27.30
Sr. No	Item description	Unit	Rate (Rs)
	FITTINGS:		
1	Providing and fixing sand cast iron/cast iron spun fittings and accessories		
a)	Bends of required degree and radius with oval access door insertion rubber washer 2mm thick/ plain bends with bolts and nuts complete		
i)	50 mm nominal size	Each	15.50
ii)	75 mm nominal size	-do-	18.00
iii)	100 mm nominal size	-do-	23.30
b)	Off-Sets		
	50 mm nominal size		
i)	With 76 mm projection	-do-	15.50
ii)	With 114 mm projection	-do-	15.50
iii)	With 151 mm projection	-do-	15.50
iv)	With 229 mm projection	-do-	15.50
v)	With 305 mm projection	-do-	15.50
	100 mm nominal size:		
i)	With 76 mm projection	-do-	23.30
ii)	With 114 mm projection	-do-	23.30
iii)	With 151 mm projection	-do-	23.30
iv)	With 229 mm projection	-do-	23.30
v)	With 305 mm projection	-do-	23.30
c)	Inverted branch, socket of spigot type of required degree		
i)	50 mm x 50 mm nominal size	-do-	18.00
ii)	100 mm x 100 mm nominal size	-do-	23.30
iii)	100 mm x 50 mm nominal size	-do-	18.00
d)	Traps with outlet sizes		
i)	50 mm nominal size	-do-	310.30
ii)	75 mm nominal size	-do-	310.30
iii)	100 mm nominal size	-do-	310.30
e)	Oval access door piece, insertion rubber Washer 3 mm thick bolts and nuts complete		
i)	50 mm nominal size	-do-	15.50
ii)	75 mm nominal size	-do-	18.00
iii)	100 mm nominal size	-do-	23.30
f)	Loose Socket		

i)	50 mm nominal size	-do-	15.50
ii)	75 mm nominal size	-do-	18.50
iii)	100 mm nominal size	-do-	23.30
g)	Collar		
i)	50 mm nominal size	-do-	15.50
ii)	75 mm nominal size	-do-	18.00
iii)	100 mm nominal size	-do-	23.30
h)	Pass over pipe 55 mm nominal size	-do-	15.50
Sr. No	Item description	Unit	Rate (Rs)
i)	Sanitary connections	Each	
a)	S Branch 100 mm nominal size	-do-	23.30
b)	Branch 100 mm nominal size	-do-	23.30
	Bend 100 mm nominal size	-do-	23.30
j)	Single unequal branch of required degree with heel rest or plain.		
i)	50 mm nominal dia	-do-	15.50
ii)	75 mm nominal dia	-do-	18.00
iii)	100 mm nominal dia	-do-	23.30
2	Providing and fixing cast iron cowl		
i)	50 mm nominal dia	-do-	10.30
ii)	75 mm nominal dia	-do-	11.50
iii)	100 mm nominal dia	-do-	14.30
3	Providing lead caulked joints to sand cast iron, cast spun iron pipes and fittings including testing of joints		
i)	50 mm nominal dia	-do-	36.80
ii)	75 mm nominal dia	-do-	50.50
iii)	100 mm nominal dia	-do-	52.00
	Note: The quantity of pig lead and spun yarn (in kg) for each joint of the above pipes and fittings shall be as under respectively		
	Spun yarn Pig lead		
	0.06 0.77		
	0.09 0.88		
	0.11 0.98		
4	Providing and fixing MS stay and clamps for sand cast iron/cast spun iron pipes		
i)	50 mm nominal dia	-do-	10.30
ii)	75 mm nominal dia	-do-	11.50
iii)	100 mm nominal dia	-do-	13.00
	FLOOR TRAPS:		
1	Providing and fixing cast iron floor trap of self cleaning design with sand cast iron screwed down or hinged grating without vent arm complete including cost of cutting and making good the walls and floors		
i)	50 mm nominal dia	-do-	310.30
ii)	75 mm nominal dia	-do-	310.30

iii)	100 mm nominal dia	-do-	316.00
	FIXTURE FOR PIPES:		
1)	Cutting chase in stone/brick masonry walls for fixing sand cast iron/cast spun iron pipes and fitting including making good the same with stone/brick work in cement mortar 1:3 (1 cement : 3 sand)		
i)	50mm nominal dia	Rmt	57.80
ii)	75 mm nominal dia	-do-	78.80
iii)	100 mm nominal dia	-do-	88.30
Sr. No	Item description	Unit	Rate (Rs)
A.	SANITARY FITTINGS:-		
1	Providing and fixing vitreous china water closet squatting pan (Indian type WC pan) size 580 mm (Earth work, bed concrete foot rest and trap to be measured and paid separately		
i)	Long pattern	Each	310.30
ii)	Orissa pattern	-do-	374.80
2)	Providing and fixing vitreous china wash, down water closet European type WC pan with integral 'P' or 'S' trap including jointing the trap with soil pipe in cement mortar 1: 1(1 cement: 1 sand). Seat and cover to be measured and paid separately.		
i)	Ordinary closet	-do-	346.30
ii)	Anglo Indian (Universal closet)	-do-	402.80
3)	Providing and fixing 100 mm size 'P' or 'S' trap for water closet (squatting pan) including jointing the trap with the pan and soil pipe in cement mortar 1: 1 (1 cement: 1 sand)		
i)	Vitreous china	-do-	113.80
ii)	Sand cast iron	-do-	123.30
4)	Providing and fixing in cement mortar 1:3 (1 cement: 3 sand) a pair of vitreous china 250 mm x 130 mm x 30 mm foot rest for long pattern squatting pan water closet.	Pair	23.50
5)	Providing and fixing 10 / 12.50 / 15 lt vitreous china low level flushing cistern with a pair of CI or mild steel brackets, complete with fitting such as lead valve less siphon 15 mm nominal size brass ball valve with polythene float, CP brass handle unions and couplings for connections with inlet, outlet and overflow pipes 40 mm dia CP flush bend including cutting holes in walls and making good the same and connecting the flush bend with cistern and closet (overflow) pipe to be measured and paid separately.	Each	176.30
6)	Providing and fixing high level CI flushing cistern with a pair of CI or mild steel brackets complete with fittings such as symphonic arrangement. 15mm nominal size brass ball valve with polythene float. unions and couplings for connections with inlet, outlet and overflow pipes etc. including cutting holes in walls and making good the same (overflow pipe chain and pull are not included in the rate)		

a)	10/ 12.50 lt capacity	-do-	219.00
b)	15 lt capacity	-do-	223.30
7	Providing and fixing in position with clamps etc. 32 mm nominal internal dia galvanized steel tube flush pipe for high level flushing cistern including connecting the flush pipe with cistern and closet and making good the walls and floors.	Rmt	92.00
8	Providing and fixing in position brass mosquito proof coupling for overflow pipe of 25 mm nominal dia (overflow pipe to be measured and paid separately).	Each	2.50
Sr. No	Item description	Unit	Rate (Rs)
9	Providing and fixing galvanized steel chain with G.I. pull.	Each	2.50
10	Providing and fixing GI inlet connection for flush pipe with WC pan.	-do-	14.50
11	Providing and fixing plastic seat (solid/ hollow type) and cover for wash down water closet with CP brass hinges and rubber buffers		
I.	SOLID TYPE:		
a)	White plastic seat and cover	-do-	14.50
b)	Black plastic seat and cover	-do-	14.50
c)	Coloured plastic seat and cover	-do-	14.50
II.	HOLLOW TYPE:		
a)	Black or white plastic seat and cover	-do-	14.50
b)	Coloured plastic seat and cover	-do-	14.50
III.	Providing and fixing teak wood or mahogany seat for pedestal type WC pan with CP brass hinges, buffers etc. complete		
a)	with lid	-do-	25.50
b)	without lid	-do-	19.30
12	Providing and fixing vitreous China bowl pattern urinal including connection the urinal with waste pipe by means of white lead mixed with chopped hemp (waste pipe to be measured and paid separately)		
i)	Flat back type of size 430 mm x 260 mm x 350 mm	-do-	185.00
ii)	Angle back type of size 370 mm x 430 mm x 340 mm	-do-	185.00
13	Providing and fixing vitreous china squatting plate pattern urinal of size 450 mm x 350 mm with integral longitudinal flush pipe.	-do-	537.80
14	Providing and fixing automatic flushing cistem with a pair of CI or MS brackets complete with fittings including CI symphonic apparatus, mosquito proof lid CP brass unions and coupling for connections with inlet, outlet and overflow pipes including cutting holes and making good the same (overflow pipe to be measured and paid separately)		
	Vitreous china/ HCl.		
i)	5 lt capacity	-do-	383.50
ii)	10 lt capacity	-do-	383.50
15	Providing and fixing C.P. brass flush pipe spreaders for urinal with fitting such as unions, clamps etc. (all in CP brass) including cutting holes and making good the same		
a)	15 mm nominal bore	Rmt	30.30

b)	20 mm nominal bore	-do-	34.00
c)	25 mm nominal bore	-do-	34.30
d)	32 mm nominal bore	-do-	41.50
16	Providing and fixing vitreous china wash basin with single hole for pillar tap with CI or MS brackets painted white including cutting holes and making good the same but excluding fittings		
a.	Flat black:		
i)	630 mm x 450 mm	Each	358.50
ii)	550 mm x 400 mm	-do-	358.50
Sr. No	Item description	Unit	Rate (Rs)
b.	Angle back :		
i)	600 mm X 400 mm	Each	358.50
ii)	400 mm x 400 mm	-do-	358.50
c.	Circular:		
i)	460 mm dia (counter top)	-do-	358.50
ii)	560 mm x 400 mm (oval type under counter)	-do-	358.50
17	Providing and fixing vitreous china pedestal for wash basin complete recessed at the back for the reception of pipes and fittings.	-do-	55.50
18	Extra over item no16 (a),(b),(c) for a pair of holes for pillar taps instead of single hole	-do-	42.30
19	Providing and fixing kitchen sink with CI or MS brackets painted white including cutting holes in walls and making good the same but excluding fittings. White glazed fire clay marble chips and vitreous china		
i)	600 mm x 450 mm x 150 mm	-do-	307.30
ii)	600mm x 450 mm x 250 mm	-do-	307.30
iii)	750mm x 450 mm x 250 mm	-do-	307.30
20	Providing and fixing CP brass chain 50 cm long and rubber plug of following sizes for sink or wash basin		
i)	32 mm dia	-do-	10.30
ii)	40 mm dia	-do-	10.30
iii)	50 mm dia	-do-	10.30
21	Providing and fixing rubber plug sink for wash basin :-		
i)	32 mm dia	-do-	10.30
ii)	40 mm dia	-do-	10.30
iii)	50 mm dia	-do-	10.30
22	Providing and fixing CP brass waste for wash basin or sink		
i)	32 mm dia	-do-	30.80
ii)	40 mm dia	-do-	30.80
iii)	50 mm dia	-do-	30.80
23	Providing and fixing MI union for wash basin or sink		
a	32 mm dia	-do-	15.50
b	40 mm dia	-do-	15.50
C	50 mm dia	-do-	15.50
24 i)	Providing and fixing CP brass S trap for wash basin and sink		
a	32 mm dia	-do-	30.80
b	40 mm dia	-do-	30.80
ii)	Providing and fixing CP bottle trap for wash basin and sink		

a)	32 mm dia	-do-	30.80
(b)	40 mm dia	-do-	30.80
25	Providing and fixing 32 mm dia, lead waste pipes for wash basin or sink including brass check nut.	-do-	6.30
26	Providing and fixing 100 mm sand cast iron grating for gully floor or nahni trap.	-do-	6.30
27	Providing and fixing 600 mm x 450 mm beveled edge mirror of superior glass mounted on 6 mm thick AC sheet or plywood sheet and fixed to wooden plugs with CP brass screws and washers wooden plugs with CP brass		194.00
Sr. No	Item description	Unit	Rate (Rs)
28	Providing and fixing CP brass towel rail complete with CP brass brackets fixed to wooden plugs with CP brass	Each	
i)	750 mm x 20 mm	-do-	97.50
ii)	600 mm x 20 mm	-do-	97.50
29 i)	Providing and fixing 600 mm x 120 mm glass shelf with CP brass bracket and guard rail complete, fixed to wooden plugs with CP brass screws.	-do-	142.00
ii)	Providing and fixing 560 mm vitreous china shelf fixed to wooden plugs with CP brass screws.	-do-	142.00
30 i)	Providing and fixing toilet paper holder		
a)	CP brass	-do-	72.00
b)	Polished wood	-do-	72.00
ii)	Providing and fixing recessed roll type toilet paper holder (vitreous china).	-do-	72.00
31	Providing and fixing liquid soap container with CP brass lid and brackets fixed to wooden plugs with CP brass screws		
i)	Glass container	-do-	72.00
ii)	Plastic container	-do-	72.00
32	Providing and fixing chromium plated brass soap dish with CP brass brackets fixed to wooden cleats with CP brass screws	-do-	72.00
33	Providing and fixing soap trays (vitreous china) :-		
i)	Recessed soap tray 150 mm x 150 mm size.	-do-	72.00
ii)	Recessed soap tray with hand rail 300 mm x 150 mm size	-do-	72.00
iii)	Small (160 mm size)	-do-	72.00
iv)	Large (380 mm size)	-do-	72.00
34	Providing and fixing CP brass shower rose with 15 mm or 20 mm inlet:		
i)	100 mm dia	-do-	10.30
ii)	150 mm dia	-do-	10.30
35	Providing and fixing vitreous china shower rose with 15 mm size inlet 100 mm dia.	-do-	10.30
36	Providing and fixing robe hook (vitreous china)	-do-	14.80
37	Providing and fixing division plate for urinals 600 mm X 300 mm vitreous china	-do-	68.80
38	Providing and fixing tooth brush and tumbler holder	-do-	8.50

	(vitreous china)		
39	Providing and fixing tap hole stopper for basin (vitreous china)	-do-	3.80
40	Providing and fixing draining board (vitreous china)		
i)	450 mm x 450 mm size	-do-	312.50
ii)	600 mm x 450 mm size	-do-	312.50
41	Providing and fixing drain board (fluted) 530 mm x 450 m size (vitreous china)	-do-	312.50
42	Providing and fixing drainage board teak wood with skirting and beading complete		
i)	600 mm x 450 mm x 25 mm	-do-	312.50
ii)	650 mm x 450 mm x 25 mm	-do-	312.50
Sr. No	Item description	Unit	Rate (Rs)
43	Providing and fixing brass bib tap (superior or heavy type)		
a)	15 mm dia	Each	8.80
b)	20 mm dia	-do-	10.30
c)	25 mm dia	-do-	11,50
d)	32 mm dia	-do-	13.00
e)	40 mm dia	-do-	14.50
f)	50 mm dia	-do-	16.00
g)	15 mm dia with aerator, sparrow without aerator, sparrow with aerator, with house attachment, long nose, long body and with swinging spout top bottom outlet	-do-	8.80
44	Providing and fixing:		
i)	CP brass bib tap with capstan head		
a)	15 mm dia	-do-	8.80
b)	25 mm dia	-do-	10.30
c)	20 mm dia	-do-	11.50
ii)	CP brass pillar tap with capstan head		
a)	15 mm dia	-do-	8.80
b)	20 mm dia	-do-	10.30
c)	25 mm dia	-do-	11.50
d)	15 mm dia with aerator	-do-	8.80
e)	15 mm dia swan neck	-do-	8.80
45	Providing and fixing brass stop cocks		
a)	15 mm dia	-do-	8.80
b)	20 mm dia	-do-	10.30
c)	25 mm dia	-do-	11.50
d)	32 mm dia	-do-	13.00
e)	40 mm dia	-do-	14.50
f)	50 mm dia	-do-	16.00
46	Providing and fixing brass angle valve 15 mm without nuts and pipe	-do-	8.80
47	Providing and fixing CP stop cocks		
i)	15 mm dia	-do-	8.80
(ii)	20 mm dia	-do-	10.30
48	Providing and fixing 15 mm mixer for kitchen sink with	-do-	18.00

	top/ bottom swinging spout		
49	Providing and fixing mixer for kitchen sink with casted swinging spout at top	-do-	18.00
50	Providing and fixing one hole basin mixing faucet	-do-	12.80
51	Providing and fixing two hole basin mixing faucet	-do-	18.00
52	Providing and fixing wall mixing faucet for shower and bath with overhead pipe (1210 cm) and bath shower.	-do-	51.50
53	Providing and fixing wall mixing faucet for shower and bath hand-shower with angular and rest holder	-do-	51.50
54	Providing and fixing bath-shower	-do-	12.80
55	Providing and fixing hand shower with brass tubing.	-do-	12.80
56	Providing and fixing hand shower with angular and rest holder.	-do-	25.50
Sr. No	Item description	Unit	Rate (Rs)
57	Providing and fixing		
i)	15 mm spout with aerator	Each	25.50
ii)	20 mm spout with aerator	-do-	25.50
58	Providing and fixing spout with aerator swinging 15 mm size	-do-	25.50
59	Providing and fixing crutch for hand shower	-do-	12.80
	MISCELLANEOUS:		
1)	Painting CI cistern with bit mastic or any other anticorrosive paint inside and white paint over a coat of ready mixed primer of approved quality on the outside surface of the cisterns, flush, pipe other fittings etc complete for new work.	-do-	168.00
2)	Re-painting CI cistern with bit mastic or any other anticorrosive paint inside and white paint on the outside surface of the cistern, flush pipe, other fittings etc. complete including polishing of wooden seat and lid and cleaning of WC pan with acid where ever necessary.	-do-	84.00
3)	Fixing cast iron cover without frame for manholes	-do-	
i)	For frame of internal dimension 4.55 mm x 6.10 mm rectangular CI cover (light duty single seal pattern 1) the weight of cover to be not less than 23 kg.	-do-	40.00
ii)	For frames of 500 mm internal dia CI cover (medium duty) the weight of cover to be not less than 58 kg.	-do-	44.50
iii)	For frame of 560 mm internal dia CI cover (heavy duty) the weight of cover to be not less than 140 kg.	-do-	166.50
4)	Fixing CI cover 300 mm x 300 mm with frame for gully trap (standard pattern) the weight of cover to be not less than 4.53 kg	-do-	10.00
5)	Making connections of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2 :4 (1 cement: 2 sand: 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1 : 3 (1 cement: 3 sand) finished with a floating coat of neat cement and making necessary channels with cement concrete 1: 2 : 4 (1 cement: 2 sand: 4 graded stone	-do-	104.30

	aggregate 20 mm nominal size) for the drain complete. For pipes 100 mm to 150 mm internal dia/nominal size.		
6)	Removing/replacing water meter (old or new any pattern) for tubes (upto 50 mm nominal bore) of the following nominal bore. Taking out plugs or temporary connections and reconnecting meter unions		
a)	15 mm	-do-	22.30
b)	20 mm	-do-	22.30
c)	25 mm	-do-	26.30
d)	30 mm	-do-	33.50
e)	40 mm	-do-	37.30
f)	50 mm	-do-	44.80
Sr. No	Item description	Unit	Rate (Rs)
7)	Jointing of pipes, fittings trap etc. with mixture of cement linseed oil and chopped hemp including labour and material etc. complete		
a)	50 mm nominal dia	Each	64.30
b)	75 mm nominal dia	-do-	75.80
c)	100 mm nominal dia	-do-	91.00
8)	Cutting holes through existing brick work including making good the same in cement mortar 1 : 6 (1cement: 6 sand) per cm depth of cutting:		
i)	Holes upto and including 400 Sq cm area	Per cm depth of cutting	1.50
ii)	Holes exceeding 400 Sq cm upto and including 1000 Sq cm in area.	-do-	2.75
9)	Dismantling old CI pipes including breaking lead caulked joints, melting of lead and making into blacks including stacking of pipes at site lead upto 50 mtrs (earth shall be measured and paid separately) : 100mm dia	Rmt	29.80

CONSUMPTION OF MATERIAL					
1	Cement Concrete Work	Unit	Cement	Sand	Stone Aggregate
	C.C. 1:2: 4	Cum	6.50 bags	0.45 Cum	0.90 Cum
	C.C. 1:3: 6	Cum	4.50 bags	0.47 Cum	0.94 Cum
	C.C. 1:4: 8	Cum	3.40 bags	0.47 Cum	0.94 Cum
	C.C. 1:5: 10	Cum	2.65 bags	0.47 Cum	0.94 Cum
	C.C. 1:6 : 12	Cum	2.30 bags	0.50 Cum	1.00 Cum
2	Brick Masonry Work	Unit	Cement	Sand	Bricks
	In C.M. 1:4	Cum	1.82 bags	0.25 Cum	480 Nos
	In C.M. 1:5	Cum	1.50 bags	0.25 Cum	480 Nos
	In C.M. 1:6	Cum	1.22 bags	0.25 Cum	480 Nos
	Half brick masonry				
	In C.M. 1:4	Cum	0.21 bags	0.03 Cum	56 Nos
3	RR Stone Masonry Work	Unit	Cement	Sand	Stone
	In C.M. 1:4	Cum	2.15 bags	0.30 Cum	1.10 Cum
	In C.M. 1:6	Cum	1.67 bags	0.35 Cum	1.10 Cum
4	HDCR Stone Masonry Work	Unit	Cement	Sand	Stone
	In C.M. 1:4	Cum	1.72 bags	0.30 Cum	1.10 Cum
	In C.M. 1:6	Cum	1.44 bags	0.30 Cum	1.10 Cum
	In C.M. 1:8	Cum	1.13 bags	0.30 Cum	1.10 Cum
5	Cement Plaster	Unit	Cement	Sand	
	6 mm thick (for ceiling): in C.M. 1:3	Sqm	0.076 bags	0.008 Cum	
	15 mm thick:				
	in C.M. 1:3	Sqm	0.150 bags	0.016 Cum	
	In C.M. 1:4	Sqm	0.115 bags	0.016 Cum	
	In C.M. 1:5	Sqm	0.092 bags	0.016 Cum	
	in C.M. 1:6	Sqm	0.076 bags	0.016 Cum	

	20 mm thick:				
	in C.M. 1:3	Sqm	0.210 bags	0.022 Cum	
	In C.M. 1:4	Sqm	0.160 bags	0.022 Cum	
	In C.M. 1:5	Sqm	0.130 bags	0.022 Cum	
	in C.M. 1:6	Sqm	0.100 bags	0.022 Cum	
6	Pointing	Unit	Cement	Sand	
	Flush pointing in C.M. 1:3	Sqm	0.030 bags	0.003 Cum	
	Raised or cut pointing in C.M. 1:3	Sqm	0.038 bags	0.004 Cum	
7	White Washing	Unit	Lime		
	For new works two coats	Sqm	0.30 kg		
	For old works one coat	Sqm	0.15 kg		
8	Dry Distemper	Unit	Distemper		
	For new works two coats	Sqm	0.10 kg		
	For new works one coats	Sqm	0.06 kg		
	For old works two coats	Sqm	0.08 kg		
	For old works one coat	Sqm	0.04 kg		
9	Oil Bound Distemper	Unit	Distemper primer	Distemper	
	For new works two coats	Sqm	0.081 lt	0.150 kg	
	For old works	Sqm		0.10 kg	
10	Snowcem	Unit	Snowcem		
	For new works two coats	Sqm	0.30 kg		
	For old works one coats	Sqm	0.18 kg		
	For every subsequent coat	Sqm	0.12 kg		
11	Painting	Unit	Paint		
	For new works three coats	Sqm	0.145 lt		
	For new works two coats	Sqm	0.125 lt		
	For old works two coats	Sqm	0.098 lt		
	For old works one coats	Sqm	0.054 lt		
	Solignum paint one coat	Sqm	0.064 lt		
	Pink primer	Sqm	0.075 lt		
12	Consumption of Iron	Unit	Steel		

	Bars / Mild Steel / Tor Steel (in normal case or as per design)				
	In RCC slab	Cum	0.90 Qtl		
	In RCC beams and columns/ pillars	Cum	1.00 Qtl		
13	Miscellaneous	Unit			
	Binding wire	Qtl	0.75 kg		
	U staples	Per Qtl of barbed wire	0.125 kg		
	Length of barbed wire	Qtl	650/ 750 Rmt		
	GI (SWG No 8) 15 X 15 mesh	Sqm	2.23 kg/ Sqm		
	Polythene bags 6" X 8"	kg	125 No		
	Polythene bags 4" X 9"	kg	350 No		

Conversion Table

1 inch	is equal to	25.4 mm or 2.54 cm
1 foot	do	0.3048 m
1 metre	do	39.37 inches/ 1.09 yards/ 3.281 feet
1 yard	do	0.9144 m
1 mile	do	1.609 km / 1609 m
1 kilometre	do	3280 ft 10 inch /1093 yard/ 0.621 mile
1 acre	do	43560 square feet / 4046.865 sqm / 0.4047 ha
640 acre	do	1 Sq mile
1 hectare	do	2.47 acres
1 square metre	do	10.76 sq feet / 1.196 sq yards
1 square kilometre	do	100 ha / 247.10 acres / 0.3861 sq miles
1 square inch	do	6.45 sq cm
1 square feet	do	925 sq cm
1 square mile	do	2.590 sq km/ 259 ha
1 liter	do	0.22 gallon/ 1.07 seers
1 gallon	do	4.46 liters/ 10 lbs.
1 pound	do	0.454 kg
1 kilogram	do	2.2046 pounds
1 cwt	do	50.80 kg
1 cubic feet	do	0.0283 Cum/ 6.24 gallons
1 hectare	do	10000 Sqm/ 2.471 Acres/ 26 kanal, 0.80 marla
1 square feet	do	0.092 Sqm
1 kanal	do	384 sq metre