

Bharat Heavy Electricals Limited

High Pressure Boiler Plant

Tiruchirappalli – 620 014. India

Civil Engineering Department (Factory)

TENDER DOCUMENT (PRICE BID)	
Name of work	: Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing maintenance and attending to roof leakage in Masonry, RCC buildings in BHEL-Trichy, Factory Complex
Tender Schedule No	: CF: TS: 026/ 19 - 20
Estimate / Tender Value	: Rs. 125.00 Lakhs + Applicable GST
Tender Evaluation Cost (40% max. based on split and award condition for 4 vendors)	: Rs. 50.00 Lakhs
EMD	: Rs. 1,00,000/- (Rupees One Lakh only)
Period of Contract	: 15 (Fifteen) Months (From the date of commencement of the work which will be reckoned from the date of handing over to the Contractor)

CONTRACTOR

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ACCEPTING OFFICER

BHARATHEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI - 620 014

SCHEDULE - A

Name of Work: **Annual Maintenance Contract for Civil Works including construction of minor foundations, Plumbing maintenance and attending to roof leakage in Masonry, RCC buildings in BHEL – Trichy, Factory Complex**

I / We _____ have read the condition of tender attached here to and agree to abide by such conditions. I / We offer to execute the works in **CF:TS:026/19-20** for a period of **15 (Fifteen) months** at the percentage below / at par / above the rates contained in Bill of Quantities appended **below from Page 03**.

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-620 014. In case of acceptance of the tender by the BHEL, I / We bind myself / ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to me / us and thus failing which I/We shall have no objection to the forfeiture of the Earnest Money amount to **Rs. 1,00,000.00** lodged with Bharat Heavy Electricals Limited, Tiruchirapalli-620 014.

I / We further agree to include all tools & plants and consumables required for the work in my / our scope but required power and water will be provided at one point by BHEL at free of cost and based on this, we have quoted our percentage.

Note: Details & Quantities of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is appended below. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the overall percentage quoted by the contractor **Below (100-X) % / At par (100%) / Above (100+X) %** of the rates provided in Bill of Quantities appended below from **Page 03**

Sl. No.	Approx. Value of work	Common single Percentage Rate (Below (100 – X)% / At Par (100%) / Above (100 +X) %) to be quoted with respect to the rates provided in the Bill of Quantities (all items as enclosed in the Price Bid of the Tender Document) from Page No. 3	
		In Figures	In Words
1.	Rs. 125.00 Lakhs (100%) (Excluding GST)		

Note: BHEL estimate total 100% is given below. Contractor has to quote Common single percentage, Below (100-X) % / At par (100%) / Above (100+X) %, with respect to the estimate total in Bill of Quantities below, at page 2 both in figures and in words.

BHEL / TRICHY-620 014 , CIVIL ENGINEERING DEPARTMENT (FACTORY)

BILL OF QUANTITIES

Name of work: Annual Maintenance contract for Civil Works including construction of minor foundations, Plumbing maintenance and attending to roof leakage in Masonry, RCC buildings in BHEL-Trichy, Factory Complex.

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
1	0101A	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. All kinds of soil except rock	M3	125.80
2	0101B	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Ordinary rock	M3	201.70
3	0101C	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Hard rock (requiring blasting)	M3	363.55
4	0101D	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Hard rock (blasting prohibited)	M3	410.75

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
5	0102A	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. All kinds of soil except rock.	M3	138.40
6	0102B	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Ordinary rock.	M3	221.85
7	0102C	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (requiring blasting).	M3	399.90
8	0102D	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (blasting prohibited)	M3	451.80
9	0103A	Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. All kinds of soil except rock	M3	178.10

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
10	0103B	Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Ordinary rock	M3	188.55
11	0103C	Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Hard rock (requiring blasting)	M3	334.30
12	0103D	Earth work for Open excavation (exceeding 30 cm in depth, 1.5m in width as well as 10sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Hard rock (blasting prohibited)	M3	400.90
13	0104	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth up to 50m and lift up to 1.5m, disposed soil to be levelled and neatly dressed. All kinds of soil	M2	35.40
14	0105	Surface dressing of the ground in all kinds of soil (excluding rock) including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.	M2	8.75
15	0106A	Open timbering in trenches including strutting and shoring complete. (Measurements to be taken of the face area timbered). Depth not exceeding 1.5 metre	M2	52.25
16	0106B	Open timbering in trenches including strutting and shoring complete. (Measurements to be taken of the face area timbered). Depth exceeding 1.5 metre but not exceeding 3 metre	M2	55.20
17	0106C	Open timbering in trenches including strutting and shoring complete. (Measurements to be taken of the face area timbered) Depth exceeding 3 metre but not exceeding 4.5 metre	M3	60.10
18	0107A1	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and / or liquid mud, including pumping out water as required. All kinds of soil except rock	M3	25.15

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
19	0107A2	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and/ or liquid mud, including pumping out water as required. Ordinary rock	M3	40.35
20	0107A3	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and/ or liquid mud, including pumping out water as required. Hard rock (requiring blasting)	M3	72.70
21	0107A4	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under water and/ or liquid mud, including pumping out water as required. Hard rock (blasting prohibited)	M3	82.15
22	0107A5	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator) / manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. In or under water and/ or liquid mud, including pumping out water as required. All kinds of soil except rock	M3	35.60
23	0107A6	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator) / manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. In or under water and/ or liquid mud, including pumping out water as required Ordinary rock	M3	37.70
24	0107A7	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neat-ly dressed. In or under water and/ or liquid mud, including pumping out water as required Hard rock (requiring blasting)	M3	66.85

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
25	0107A8	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. In or under water and/ or liquid mud, including pumping out water as required Hard rock (blasting prohibited)	M3	80.20
26	0107A9	Extra for earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed. All kinds of soil in or under water and/ or liquid mud, including pumping out water as required	M2	7.10
27	0107A10	Extra for Surface dressing of the ground in all kinds of soil (excluding rock) including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m in or under water and/ or liquid mud, including pumping out water as required.	M2	1.75
28	0107B1	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. All kinds of soil except rock	M3	31.45
29	0107B2	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. Ordinary rock	M3	50.45
30	0107B3	Extra for Earthwork excavation (TRENCHES) in soils given below by me-chanical means (Hydraulic excavator) / manual means and depositing the ex-cavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. Hard rock (requiring blasting)	M3	90.90

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
31	0107B4	Extra for Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator) / manual means and depositing the ex-cavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. In or under foul position, including pumping out water as required. Hard rock (blasting prohibited)	M3	102.70
32	0107B5	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator) / manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. In or under foul position, including pumping out water as required. All kinds of soil except rock	M3	44.55
33	0107B6	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. In or under foul position, including pumping out water as required. Ordinary rock	M3	47.15
34	0107B7	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. In or under foul position, including pumping out water as required. Hard rock (requiring blasting)	M3	83.60
35	0107B8	Extra for Earth work for Open excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neat-ly dressed. In or under foul position, including pumping out water as required. Hard rock (blasting prohibited)	M3	100.25
36	0107B9	Extra for earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of ex-cavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed All kinds of soil in or under foul position, including pumping out water as required.	M2	8.85

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
37	0107B10	Extra for Surface dressing of the ground in all kinds of soil (excluding rock) including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m in or under foul position, including pumping out water as required. Note:- The extra percentage is applicable in respect of each item, but limited to quantities of work done in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the Centre of gravity of the quantity executed in difficult conditions. The depth shall be reckoned correct to 0.10 metre, 0.05 metre or more shall be taken as 0.10 metre and less than 0.05 metre ignored.	M2	2.20
38	0108A	Extra for every additional lift of 1.5 metre or part thereof in : All kinds of soil excluding rock.	M3	32.45
39	0108B	Extra for every additional lift of 1.5 metre or part thereof in : Ordinary or hard rock	M3	58.20
40	0109	Extra for every additional lead of 10 metre or part thereof over the initial lead for all kinds of soil.	M3	32.45
41	0110	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete.	M3	502.95
42	0111	Supply and spreading/filling with stone dust complying with standard specifications.	M3	250.40
43	0112	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m etc. complete.	M3	78.90
44	0117A	Extra rate for consolidation of bunds etc. by means of the following, including watering. Hand roller	M3	9.65
45	0117B	Extra rate for consolidation of bunds etc. by means of the following, including watering. Power roller including hire charges.	M3	16.15
46	0118	Benching hard rock up to an average 10 cm depth	M2	315.70
47	0119A	Drilling holes in hard granite/RCC structure: 45 mm dia.	RM	123.70
48	0119B	Drilling holes in hard granite/RCC structure: 50 mm dia.	RM	147.35
49	0119C	Drilling holes in hard granite/RCC structure: 75mm dia.	RM	167.35
50	0120	Bailing or pumping out water from trenches, foundations etc., at all depths wherever necessary as per standard specifications.	HR	65.05
51	0121	Clearing grass and removal of rubbish up to a distance of 50 metre.	M2	2.30
52	0122	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth up to 30 cm measured at a height of 1 metre above ground level and removal of rubbish up to a distance of 50 metre.	M2	4.50

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
53	0123A	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 30 cm girth up to and including 60 cm girth	Each	139.20
54	0123B	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 60 cm girth up to and including 120 cm girth	Each	613.65
55	0123C	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 120 cm girth up to and including 240 cm girth	Each	2831.15
56	0123D	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Above 240 cm girth	Each	5682.55
57	0124	Supplying Chlorpyriphos / Lindane emulsifiable concentrate of 20 % (chemical emulsion) in sealed containers at site of work.	L	176.10
58	0125	Labour charges for pre-constructional anti-termite treatment by diluting and injecting chemical emulsion which will be supplied by BHEL at free of cost and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth, surrounding of pipes and conduits etc. complete , all as per standard specification. (Plinth area of building at ground floor only shall be measured for payment)	M2	142.65
59	0126	Diluting and injecting pre-constructional anti-termite treatment by chemical emulsion and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth, surrounding of pipes and conduits etc. complete , all as per standard specification. (Plinth area of building at ground floor only shall be measured for payment). Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc. as per instructions of Engineer in charge.	M2	477.25
60	0127A	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall and rodding etc. complete.	RM	11.35

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
61	0127B	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.	RM	17.40
62	0127C	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment of soil under existing floors, using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm dia. holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor. (Requirement of chemical emulsion – Chlorpyrifos / Lindane E.C 20 % with 1 % concentration - 5 litre / 9 SQM)	M2	90.60
63	0127D	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole. (Requirement of chemical emulsion – Chlorpyrifos / Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	13.50
64	0127E	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos / Lindane (in oil or kerosene based solution) @ 0.50 litre per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. Rate includes cost of kerosene but excludes chemical. (Requirement of chemical emulsion – Chlorpyrifos / Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	123.80
65	0128A	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc. as per instructions of Engineer in charge. Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall and rodding etc. complete.	RM	66.30
66	0128B	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc. as per instructions of Engineer in charge. Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.	RM	72.35

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
67	0128C	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc. as per instructions of Engineer in charge. Treatment of soil under existing floors, using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm dia holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor.	SQM	361.95
68	0128D	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc. as per instructions of Engineer in charge. Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole.	RM	96.55
69	0128E	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc. as per instructions of Engineer in charge. Treatment at points of contact of wood work by chemical emulsion (in oil or kerosene based solution) @ 0.50 litre per hole by drilling 6 mm dia. holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. Rate includes cost of kerosene, chemical emulsion.	RM	206.80
70	0129	Hire charges for engaging earth moving machinery (Hydraulic Excavator) to attend to channeling works at river bed, pipe line burst works, cleaning the areas including uprooting thorny plants/heavy jungles/trees etc. of all heights and leveling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire, fuel, operation charges, to and fro charges for machinery, all labour and all other incidentals etc., complete.	HR	1,100.00
71	0201A	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:1:2 with graded stone aggregate 20 mm nominal size.	M3	2,019.90
72	0201B	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:1.5:3 with graded stone aggregate 20 mm nominal size.	M3	1,972.65
73	0201C	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:2:4 with graded stone aggregate 20 mm nominal size.	M3	2,043.75
74	0201D	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:2:4 with graded stone aggregate 40 mm nominal size.	M3	1,866.15

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
75	0201E	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:3:6 with graded stone aggregate 40 mm nominal size.	M3	1,913.70
76	0201F	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:4:8 with graded stone aggregate 40 mm nominal size.	M3	1,908.50
77	0201G	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:5:10 with graded stone aggregate 40 mm nominal size.	M3	1,904.35
78	0202A	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1:2 with graded stone aggregate 20 mm nominal size - All works up to plinth level.	M3	2,211.60
79	0202B	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1.5:3 with graded stone aggregate 20 mm nominal size - All works up to plinth level.	M3	2,164.35
80	0202C	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:2:4 with graded stone aggregate 20 mm nominal size - All works up to plinth level.	M3	2,235.45
81	0202D	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1:2 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2,822.35
82	0202E	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1.5:3 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2,775.10
83	0202F	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:2:4 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2,846.20
84	0203	Straightening, cutting, bending, placing in position of MS/CTD bars and binding with MS binding wires of 18/20 gauge etc. for reinforcement of RCC works. Rate includes cover blocks, cost of binding wire, conveyance of MS/ CTD bars from BHEL stores to site of work, labour etc. complete. MS/CTD bars will be supplied by BHEL at Stores at free of cost.	MT	7,439.40

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
85	0204A	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.	M2	167.30
86	0204B	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.	M2	291.65
87	0204C	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Suspended floors, roofs, landings, balconies, access platform and sunshades.	M2	323.65
88	0204D	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Lintels, beams, plinth beams, girders, bressumers and cantilevers	M2	253.50
89	0204E	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Columns, pillars, piers, abutments, posts and struts.	M2	371.70
90	0204F	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Arches, domes, vaults up to 6 m span	M2	783.80
91	0204G	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Well staining	M2	465.50
92	0204H (i)	Extra for Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete in circular work.	M2	33.45
93	0204H (ii)	Extra for Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Lintels, beams, plinth beams, girders, bressumers and cantilevers in circular work.	M2	50.70
94	0204H (iii)	Extra for Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Columns, pillars, piers, abutments, posts and struts in circular work.	M2	74.35
95	0204I	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level. Pockets or holes in foundations for holding down bolts.	M2	679.25

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
96	0205	Extra for additional height in centring, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering and de-centring at all levels, over a height of 4.5 metre for every additional height of 1 metre or part thereof. For suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	M2	165.25
97	0206	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-20 Grade reinforced cement concrete. All work in foundation, basement and up to Floor V level.	M3	2,728.60
98	0207A	Add or deduct for providing richer or leaner mixes respectively at foundation, basement and up to Floor V level. Providing M-25 grade concrete instead of M-20 grade.	M3	2,737.05
99	0207B	Add or deduct for providing richer or leaner mixes respectively at foundation, basement and up to Floor V level. Providing M-30 grade concrete instead of M-20 grade.	M3	2,740.15
100	0207C	Add or deduct for providing richer or leaner mixes respectively at foundation, basement and up to Floor V level. Providing M-35 grade concrete instead of M-20 grade.	M3	2,742.40
101	0208	Extra for laying plain / reinforced concrete in or under foul conditions.	M3	125.20
102	0209A	Providing vertical drops, fins, facias etc., for the following thickness with 1:2:4 cement concrete using 6 mm granite stone chips for inner core applied on chicken mesh and neatly plastered with cement mortar 1:4, 12mm thick on both faces, finishing, curing etc., complete. Rate includes cost of all materials and labour but excluding fabrication charges for reinforcement. 75mm thick	M2	842.60
103	0209B	Providing vertical drops, fins, facias etc., for the following thickness with 1:2:4 cement concrete using 6 mm granite stone chips for inner core applied on chicken mesh and neatly plastered with cement mortar 1:4, 12mm thick on both faces, finishing, curing etc., complete. Rate includes cost of all materials and labour but excluding fabrication charges for reinforcement. 60 mm thick	M2	830.55
104	0210	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete elements like slabs etc. of 25 to 150 mm thick in required sizes with mix 1:2:4 using 10 to 20 mm size hard broken granite stone jelly for cupboards, shelves etc. including setting in cement mortar 1:3, cost of centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement and fabrication charges.	M3	6,332.65
105	0211	Providing, hoisting and fixing up to floor V level plain cement concrete elements like slabs etc. of 25 to 150 mm thick of required sizes in mix 1:2:4 using 10 to 20 mm size hard broken granite stone jelly. Rate includes centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding pointing.	M3	5,228.55

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
106	0212	Carrying from departmental stores / stack yard and fixing in position of 25 to 150 mm thick Plain / RCC precast elements like slabs etc. to the correct line, level, plumb and alignment, all as per standard specifications. Rate excludes cost of precast slabs and pointing.	M3	506.60
107	0213A	Providing precast cement concrete Jali 1:2:4 using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc. complete. Rate excludes reinforcement steel and fabrication charges. 50 mm thick	M2	538.75
108	0213B	Providing precast cement concrete Jali 1:2:4 using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc., complete. Rate excludes reinforcement steel and fabrication charges. 40 mm thick	M2	461.70
109	0214A	Providing and fixing RCC precast perforated lawn drain cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel and fabrication charges. 75 mm thick	M2	264.95
110	0214B	Providing and fixing RCC precast perforated lawn drain cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel and fabrication charges. 50 mm thick	M2	161.60
111	0215	Precasting, carrying and fixing in position of RCC louvers including 60 mm thick side posts, 60 mm thick intermittent lintel and 100 mm thick top lintel, 40 mm thick louver slabs lintels etc. (all precast) in cement concrete 1:2:4 using graded stone aggregate 10 mm nominal size with specified reinforcement, all as per standard drawing and instructions of Engineer-in-charge. Rate includes supply and fixing of holdfasts, moulding, scaffolding for fixing at specified levels, finishing and also filling the gap between precast lintels with insitu cement concrete of mix 1:2:4 using 10 mm and down graded hard broken granite stone jelly and filling the gap recesses of side walls with C.M 1:5, cutting and forming chases in brick masonry, finishing jambs wherever necessary and making good all damages to suit the existing work but excluding cost of fabrication charges for reinforcement steel.	M2	772.80
112	0216A	Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 69mm thick slab	M2	543.65

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
113	0216B	Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 150mm thick slab	M2	736.75
114	0217	Encasing rolled steel sections in beams and columns in cement concrete 1:2:4 using graded stone aggregate 12.50 mm nominal size including centering, shuttering etc. complete but excluding cost of reinforcement and fabrication charges.	M3	4,078.50
115	0218	Providing balustrade for an overall thickness of 100 mm with cement concrete 1:2:4 using 12 to 20 mm size hard broken granite stone jelly for 75 mm thick inner core applied on chickenmesh and neatly plastered with cement mortar 1:4 on both faces and hand rail plastered in CM 1:4 with an admixture of red oxide including finishing, polishing curing etc., complete. Rate includes cost of all materials and labour but excluding cost of reinforcement and fabrication charges.	M2	994.70
116	0219	Extra for providing and fixing expanded metal mesh of size 20 x 60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg. per sq.m. for encasing of rolled steel sections in beams, columns and grillage excluding cost of hangers.	M2	355.85
117	0220	Providing and fixing in position of copper plate as per design for expansion joints.	KG	306.05
118	0221	Providing and filling in position of blown bitumen in expansion joints.	M3	50,000.00
119	0222	Providing and filling in position of bitumen mix filler of proportion 80 Kg of hot bitumen, 1 Kg of cement and 0.25 cubicmetre of coarse sand for expansion joints.	M3	15,500.00
120	0223	Providing and fixing in position of 12 mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing compound in expansion joints.	M2	410.00
121	0224	Extra for providing and mixing water proofing material 'Impermo' or equivalent in cement concrete work at 1 Kg per 50 Kg of cement.	KG	42.00

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
122	0225	<p>Labour charges for attending to spalling of concrete in ceiling of buildings. Scope of step by step activities are given:-</p> <p>i) Removing the loose concrete / plaster by knocking with a 2 lbs. hammer, scrapping with steel wire brush and exposing the sound concrete.</p> <p>ii) Removing the rust in reinforcement by scraping with steel brush.</p> <p>iii) Washing the concrete surface and reinforcement. (By jetting water)</p> <p>iv) Applying passivator coat (2 K.G cement and 1 Lit. Roff bond repair) on rusted reinforcement and bond coat using CM 1:3 and Roff bond repair (5 K.G cement and 1 Lit. Roff bond repair) in layers of 6 mm thick to match with the existing surface. Roff bond repair mix shall be prepared in the proportion as directed by Engineer-in-charge. (or) Applying rust primer on the steel and Mari Crete mix to the surface to be attended to by adding water in proportion as directed by Engineer-in-charge in layers of 6 mm thick to match with the existing surface.</p> <p>v) Finishing the surface with clean trowel.</p> <p>Note:-</p> <p>i) Cement and the said chemicals will be supplied by BHEL at Stores at free of cost.</p> <p>ii) Rate includes scaffolding, tools, labour, incidentals etc. complete.</p>	M2	115.50
123	0226	Providing and placing in position PVC water stops serrated with central bulb, 225 mm wide and 8-11 mm thick for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete.	RM	462.05
124	0301A	Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing, all as per standard specifications. Cement mortar 1:5	M3	1,775.55
125	0301B	Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing, all as per standard specifications. In cement mortar 1:6	M3	1,773.45
126	0302	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with Cement mortar 1:6.	M3	2,070.35
127	0303	Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 metre.	M3	301.80
128	0304	Extra for random rubble and coursed rubble masonry with hard stone in superstructure above plinth level and up to floor five level.	M3	645.50
129	0305	Extra for laying stone work in or under foul position.	M3	125.20
130	0306	Labour charges for providing random rubble masonry in foundation and basement in the mixes specified including simultaneous flush pointing, all as per standard specifications. Rough stones and bond stones will be supplied by BHEL at free of cost, at site of work.	M3	544.80
131	0307	Providing rough stone dry packing for aprons and revetments including filling interstices with spalls, wedging, consolidating and preparing the surface, all as per standard specifications.	M3	1,287.00

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
132	0308	Labour charges for providing rough stone dry packing for aprons and revetments including filling interstices with spalls, wedging, consolidating and preparing the surface, all as per standard specifications. Rough stones will be supplied by BHEL at site at free of cost.	M3	884.40
133	0309	Providing hollow block masonry in cement mortar 1:5 using hollow block of sizes 400 x 200 x 200 mm / 400 x 150 x 200 mm / 400 x 100 x 200 mm or thereabouts of approved good quality including simultaneous flush pointing, all as per standard specification. Rate includes cost of hollow blocks, conveying, leading, loading, unloading, labour, incidentals etc., complete. Up to 4.50 m height from plinth level.	M3	3,111.15
134	0310A	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50 / 75 in foundation and plinth in: Cement mortar 1:3	M3	3,725.30
135	0310B	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50 / 75 in foundation and plinth in: Cement mortar 1:4	M3	3,721.90
136	0310C	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50 / 75 in foundation and plinth in: Cement mortar 1:5	M3	3,720.10
137	0310D	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50 / 75 in foundation and plinth in: Cement mortar 1:6	M3	3,718.50
138	0311A	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50 / 75 in foundation and plinth in: Cement mortar 1:3	M3	3,899.00
139	0311B	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50 / 75 in foundation and plinth in: Cement mortar 1:4	M3	3,896.05
140	0311C	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50 / 75 in foundation and plinth in: Cement mortar 1:5	M3	3,894.45
141	0311D	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:6	M3	3,893.05
142	0312	Extra for Brick work in superstructure above plinth up to floor three level in all shapes and sizes.	M3	271.25
143	0313	Extra for brick work with bricks curved on plan up to a mean radius not exceeding 6 metre.	M3	473.90
144	0314	Extra charges for providing half brick masonry, brick on edge walls, fins, balustrade etc. over and above the brick work rates of 0310 and 0311.	M3	297.60
145	0315	Honey-comb brick work 10 / 11.40 cm thick with FPS bricks of class designation 50 in cement mortar 1:4.	M2	314.15
146	0316	Extra for laying brick work in or under foul position.	M3	125.20
147	0317	Providing and filling with 20 mm brick jelly including filling the voids (max. of 10%) with river sand and compacted well with wooden hammer etc. complete.	M3	687.50

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
148	0318	Rectifying the wall cracks by chipping off the existing plastered surfaces to the required width, depth and applying cement slurry in the cracks to the required depth, making good all damages and finishing to match with the existing one by plastering with C.M 1:5, 12 / 15mm thick and a coat of white wash / snowcem / distemper etc. as the case may be.	M2	93.30
149	0319	Same as per item No. 0318 but includes providing chickenmesh before applying plastering.	M2	133.70
150	0320	Brick work with mechanized autoclaved fly ash lime bricks made up of fly ash lime, lime, gypsum and coarse sand / stone dust to size 230 mm x 110 mm x 70 mm or thereabouts conforming to IS 12894 of class designation 50 (min) in foundation, plinth and superstructure above plinth up to floor V level as per standard specifications and instructions of Engineer in charge. In cement mortar 1:5.	M3	4,320.70
151	0321	Brick work with non-modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in foundation, plinth and superstructure above plinth up to floor V level as per standard specifications and instructions of Engineer in charge. In cement mortar 1:5.	M3	4,160.00
152	0519A	Providing holding down bolts of required sizes with nuts, washers etc. and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, washers, fabrication and machining charges, fixing, all labour etc. complete. In M.S rounds including washer plates.	KG	65.80
153	0519B	Providing holding down bolts of required sizes with nuts, washers etc. and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, washers, fabrication and machining charges, fixing, all labour etc. complete. Bolts including nuts and washers etc. complete in all sizes and lengths.	KG	85.15
154	0520	Conveying all types and sizes of holding down bolts, nuts, washers etc. from BHEL Stores to site of work and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate excludes cost of bolts, nuts, washers etc.	KG	23.55
155	0524	Labour charges for making and fixing M.S fan hook of standard shape using M.S bar bent to shape with hooked ends in RCC slabs during laying including painting the exposed portion etc. complete. M.S bar will be supplied by BHEL at Stores at free of cost.	Each	26.60
156	0525	Labour charges for making and fixing M.S fan hook of standard shape using M.S bar bent to shape with hooked ends in existing RCC slabs including cutting chase and making good to match with the existing one and painting the exposed portion of the hook etc. complete. M.S bar will be supplied by BHEL at Stores at free of cost.	Each	172.70

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
157	0527	Supply and fixing rolling shutters of approved make, made of required size of M.S laths interlocked together through their entire length and joined together at end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation etc. complete including cost of providing and fixing necessary 27.5 cm long wire springs grade No.2 and M.S top cover of required thickness for rolling shutter. 80 x1.25 mm M.S laths with 1.25 mm thick top cover	M2	1,912.65
158	0528	Providing and fixing ball bearing for rolling shutters.	Each	413.30
159	0529A	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 10.00 SQM and up to 16.80 SQM in area.	M2	630.25
160	0529B	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 16.80 SQM in area.	M2	663.25
161	0530	Conveying from BHEL stores to site of work and fixing rolling shutters in proper position, all as directed by the Engineer-in-charge. Rate includes loading, leading, unloading and fixing of roller shutter including side brackets, gear box, lubricating the bearings etc., complete and making it fit for operation. Labour charges only.	M2	276.60
162	0531	Providing and fixing in position of collapsible steel shutters with vertical channels 20 x 10 x 2 mm and braced with flat iron diagonals 20 x 5 mm size with top and bottom rail of T-iron 40 x 40 x 6 mm with 40 mm dia. steel pulleys complete with bolts, nuts, locking arrangements, stoppers, handles, including applying a priming coat of approved steel primer.	M2	4,344.00
163	0536	Providing and fixing in proper position of fan hook using 10 mm FSICHER SLM-N heavy duty ANCHOR fastener with clamp and bolts in the existing RCC roof slab. Rate includes cost of fan hook (fastener), drilling with power drilling machine to the required dia. and depth in the RCC roof slab, inserting and fixing the fan hook in proper position, all labour and all other incidentals etc. complete.	Each	390.50
164	0548	Supplying and laying rubberized and coloured (for 5mm thick layer) inter locking paver block of 50mm thickness M25 grade in flooring / pavement to take care of vehicular movements with proper line, level, alignment etc., all as per standard specification and instruction of Engineer-in-charge. The rate included cost of material, transportation, loading, unloading at site, labour for spreading and laying of paver block etc., complete over the sand bed of required thickness which will be paid under separate item.	M2	894.40
165	0601	Finishing the top of all floors with 20 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to 10 mm gauge hard broken granite stone chips and finishing the top surface smooth, rounding of corners, curing etc., complete, all as per standard specifications. (Ellis pattern I sort)	M2	190.70
166	0602	Same as 0601 but including mixed well with red oxide powder of approved quality of weight equal to one tenth of the weight of cement used.	M2	383.75

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
167	0603	Finishing the top of all floors with 25 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to 10 mm gauge hard broken granite stone chips, finishing the surfaces smooth, rounding of corners, curing, providing borders etc., complete, all as per standard specifications. (Ellis pattern flooring)	M2	235.10
168	0604	Same as 0603 but including mixed well with red oxide powder of approved quality of weight equal to one tenth of the weight of cement used.	M2	476.00
169	0605	Providing red oxide skirting for walls, etc. with cement mortar 1:3, 12 mm thick, well mixed with red oxide powder of approved quality of 3.50 K.G per 50 K.G of cement used, finishing, polishing the surfaces smooth, curing etc., complete, all as per standard specifications.	M2	161.45
170	0606	Flooring with reinforced cement concrete of mix 1:2:4 using 40 mm and downgraded hard broken granite stone jelly for thickness varying from 100 to 500 mm laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications.	M3	1,942.05
171	0607	Floor finish with 40 mm thick granolithic flooring over the concrete base while it is wet for proper bonding, the bottom 25 mm thick consisting of one part of cement and one part of 6 mm gauge hard broken granite stone chips (the proportion being by volume) and the top 15 mm finished with hardening compound of proportion one part of hardonate (ironite or equivalent) four parts of cement and eight parts of 6 mm gauge blue granite stone chips (the proportion being by weight) including finishing and painting the sides with bitumen etc., complete, all as per standard specifications.	M2	425.15
172	0608	Floor finish with 40 mm thick over concrete base while it is wet for proper bonding. 40 mm thick finish consists of one part of cement and one part of 6 mm gauge hard broken granite stone chips (the proportion being by volume) and finished smooth including painting the sides with bitumen etc., complete, all as per standard specifications.	M2	333.70
173	0609A	Providing, laying and finishing the top of floor / side walls with 20 mm thick mosaic tiles of approved make and quality over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm thick and tiles being joined, polished and finished smooth with necessary borders etc., complete including thorough cleaning of the surface before and after laying the tiles. All as per standard specifications. (Cost of tile shall include cost of cement for casting.) For gray colour	M2	472.70
174	0609B	Providing, laying and finishing the top of floor / side walls with 20 mm thick mosaic tiles of approved make and quality over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm thick and tiles being joined, polished and finished smooth with necessary borders etc., complete including thorough cleaning of the surface before and after laying the tiles. All as per standard specifications. (Cost of tile shall include cost of cement for casting.) For colours other than gray	M2	527.75

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
175	0610A	Finishing the top of floors / sides of walls with insitu mosaic comprising of a bedding layer of cement mortar 1:4, 12 mm thick followed by 20 mm thick mosaic wearing layer comprising of cement and mosaic chips of 6 mm and down graded in proportion of 1:2, laid, polished and finished with necessary borders etc., complete including thorough cleaning the surfaces before and after laying the finish, all as per standard specifications. Gray colour	M2	465.55
176	0610B	Finishing the top of floors / sides of walls with insitu mosaic comprising of a bedding layer of cement mortar 1:4, 12 mm thick followed by 20 mm thick mosaic wearing layer comprising of cement and mosaic chips of 6 mm and down graded in proportion of 1:2, laid, polished and finished with necessary borders etc., complete including thorough cleaning the surfaces before and after laying the finish, all as per standard specifications. For colours other than gray	M2	520.55
177	0611	Grinding and wax polishing of old mosaic floors, dado, skirting etc. in gray and all colours and finishing the surfaces smooth including filling the joints and voids by matching pigments, chips etc., complete, all as per standard specifications. Rate includes cost of materials, hire and running charges of machines, labour etc., complete.	M2	77.25
178	0612A	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For Plain Ceramic tile of Size 305mm X 305mm X 6mm of all Colours.	M2	1,035.20
179	0612B	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For Plain Ceramic tile of Size 200mm X 200mm X 6mm of all Colours	M2	1,053.70
180	0612C	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For First Quality Design Ceramic tile of Size 305mm X 305mm X 6mm of all Colours	M2	1,215.40
181	0612D	Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc. complete, all as per standard specifications. For First Quality Design Ceramic tile of Size 200mm X 200mm X 6mm	M2	1,299.90
182	0613	Providing and laying minimum 5 mm thick ceramic glazed floor tiles of first quality approved make conforming to IS:15622 and in all colours of required sizes in flooring, treads of steps, landings etc., laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 12 mm thick cement mortar 1:3, finished with flush pointing in white cement using appropriate colour pigment etc. complete, all as per standard specifications.	M2	672.55

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
183	0614	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades as approved by Engineer-in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete	M2	672.55
184	0615	Providing and laying ceramic glazed floor tiles (of required thickness) of first quality approved make confirming to IS:15622 and in all colours of required sizes in flooring, treads of steps, landings etc., laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 20 mm thick cement mortar 1:4, finished with flush pointing in white cement using appropriate colour pigment etc. complete, all as per standard specifications.	M2	678.65
185	0616	Providing and laying ceramic glazed wall tiles (of required thickness) of first quality of approved make confirming to IS:15622 and in all colours of required sizes in skirting, walls, risers of steps and dado laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 12 mm thick cement mortar 1:3 plaster and joined with white cement using appropriate colour pigment etc. complete, all as per standard specifications.	M2	745.80
186	0617	Fixing glazed/ceramic/vitrified floor tiles with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness.	M2	367.60
187	0618A	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Kota stone slabs 20 to 25 mm thick polished	M2	1,151.40
188	0618B	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Cuddappah slabs 20 to 25 mm thick single side polished	M2	879.20
189	0618C	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Shahabad slabs 20 to 25 mm thick single side polished - Tandur Gray	M2	851.95

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
190	0618D	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Shahabad slabs 20 to 25 mm thick single side polished - Tandur Green	M2	838.35
191	0618E	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Rajnagar plain white	M2	1,219.90
192	0618F	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Green (Udaipur) colour	M2	1,333.75
193	0618G	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Pink colour	M2	1,276.85

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
194	0618H	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble slabs 16 to 18 mm thick, polished - Black (Zebra/Galaxy) colour	M2	1,093.40
195	0618I	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - S. White	M2	1,440.95
196	0618J	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Black (Andhra) Colour	M2	2,298.45
197	0618K	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Gray Colour	M2	2,026.20
198	0608L	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Green Colour	SQM	1958.15
199	0618M	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Sweet Green Colour	M2	2,434.55

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
200	0618N	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Red (Gem) Colour	M2	1,958.15
201	0618O	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Blue (Lavender) Colour	M2	2,230.40
202	0618P	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Lakha red Colour	M2	3,659.60
203	0618Q	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite slabs 16 to 18 mm thick, polished - Steel grey Colour	M2	1,754.00
204	0618R	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Vitrified Tiles of required thickness and 60 x 60 cm size (cement slurry is 3.30 Kg/SQM instead of 4.40 Kg/SQM)	M2	1,228.35
205	0618S	Providing, laying and finishing the top of floor with the following best quality slabs of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Precast cement Concrete Tiles of approved make of minimum thickness 22mm and required size and pattern (cement slurry is 3.30 Kg/SQM instead of 4.40 Kg/SQM)	M2	495.50

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
206	0619A	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Marble tiles (polished), 8 mm thick (approx.) - Rajnagar plain white/Green (Udaipur)/Black (Zebra)	M2	800.95
207	0619B	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - P White	M2	873.75
208	0619C	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Gray (Steel) Colour	M2	837.35
209	0619D	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Red (Gem) Colour	M2	934.40
210	0619E	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Green Colour	M2	970.80
211	0619F	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Sweet Green Colour	M2	1,261.95

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
212	0619G	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Black (Galaxy) Colour	M2	970.80
213	0619H	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Lakha Red Colour	M2	1,541.00
214	0619I	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Raw Silk Colour	M2	873.75
215	0619J	Providing, laying and finishing the top of floor with the following best quality tiles of required sizes over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Granite tiles (polished), 8 to 10 mm thick (approx.) - Steel Grey Colour	M2	837.35
216	0620A	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining up to 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (Polished) - Jet Black	M2	1,691.95
217	0620B	Stone tile work of 8 mm thick (mirror polished and machine cut edge) for wall lining up to 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Red (Gem) Colour	M2	1,342.20
218	0620C	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining up to 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Green Colour	M2	1,378.60

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
219	0620D	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining up to 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Black (Galaxy) Colour	M2	1,378.60
220	0620E	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining up to 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Granite tiles (polished), 8 to 10 mm thick (approx.) - Steel Grey Colour	M2	1,245.15
221	0620F	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining up to 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade. Marble tiles (polished), 8 mm thick (approx.) - Rajnagar plain white/Green (Udaipur)/Black (Zebra)	M2	1,208.75
222	0621A	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete with the following Granite tiles (Polished) - Jet Black	M2	1,855.75
223	0621B	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete with the following Granite tiles (polished), 8 to 10 mm thick (approx.) - Red (Gem) Colour	M2	1,506.00
224	0621C	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete with the following. Granite tiles (polished), 8 to 10 mm thick (approx.) - Green Colour	M2	1,542.40
225	0621D	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete with the following. Granite tiles (polished), 8 to 10 mm thick (approx.) - Black (Galaxy) Colour	M2	1,542.40
226	0621E	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete with the following. Granite tiles (polished), 8 to 10 mm thick (approx.) - Steel Grey Colour	M2	1,408.95
227	0621F	Stone tile (polished) work of 8mm thick for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete with the following Marble tiles (polished), 8 mm thick (approx.) - Rajnagar plain white/Green (Udaipur)/Black (Zebra)	M2	1,372.55
228	0622	Mirror polishing on marble work/granite work/stone work wherever required to give high gloss finish etc. complete.	M2	162.20

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
229	0623	Extra for prefinished nosing to treads of steps of marble stones.	RM	219.00
230	0624	Extra for prefinished nosing in treads of steps of kota stones.	RM	70.90
231	0625A	Supply and fixing homogeneous PVC sheets / tiles of approved brand, pattern, colour, shade and manufacture in flooring / skirting on a smooth and damp proof base using rubber based adhesives of approved quality including rolling with light wooden roller weighing about 5 K.G. etc. complete, all as per standard specifications. 1.5 / 1.6 mm thick	M2	422.05
232	0625B	Supply and fixing homogeneous PVC sheets / tiles of approved brand, pattern, colour, shade and manufacture in flooring / skirting on a smooth and damp proof base using rubber based adhesives of approved quality including rolling with light wooden roller weighing about 5 K.G. etc. complete, all as per standard specifications. 2 mm thick	M2	618.40
233	0626	Supply and laying roughly dressed cut stone slabs of required sizes and thickness over sand bed or mortar bed, excluding pointing, all as per standard specifications. Rate excludes cost of sand bed/mortar bed.	M3	4,330.90
234	0627	Labour charges for edge preparation (NOZING) and polishing of the laid granite slab on the working platform, table etc. , The rate includes charges for required grinding machine, labour etc., complete. All as per the instructions of Engineer-in-charge	RM	181.95
235	0628	Flooring with reinforced cement concrete of mix 1:2:4 using 20 mm and down graded hard broken granite stone jelly for thickness varying from 100 to 500 mm laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications.	M3	2,119.70
236	0629	Providing and laying 7 mm thick (approximate) ceramic glazed floor/wall tiles of first quality approved make and in all colours of required sizes in flooring, treads of steps, landings, skirting, walls, risers of steps and dado etc., laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment by placing 2 mm spacers, tile mat for joints filling etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.	M2	790.80

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
237	630A	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Rajnagar plain white	M2	1,285.60
238	630B	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Green (Udaipur) colour	M2	1,399.45
239	630C	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Pink colour	M2	1,342.55
240	630D	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash/distemper/paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Marble slabs 16 to 18 mm thick, polished - Black (Zebra / Galaxy) colour	M2	1,159.10

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
241	630E	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc. Granite slabs 16 to 18 mm thick, polished – S	M2	1,323.20
242	630F	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc. Granite slabs 16 to 18 mm thick, polished - Black (Andhra) colour	M2	2,106.15
243	630G	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc. Granite slabs 16 to 18 mm thick, polished - Grey colour	M2	1,857.60
244	630H	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc. Granite slabs 16 to 18 mm thick, polished - Green colour	M2	1,795.45

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
245	630I	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Sweet Green colour	M2	2,230.40
246	630J	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Red (Gem) colour	M2	1,795.45
247	630K	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Blue (Lavender) colour	M2	2,044.00
248	630L	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Lakha Red Colour	M2	3,348.90

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
249	630M	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Granite slabs 16 to 18 mm thick, polished - Steel Grey Colour	M2	1,609.05
250	630N	Providing, laying and finishing the top of floor / wall with the following best quality slabs / tiles of required sizes laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477, using 5 K.G adhesive per SQM of tile area, in average 3 mm thickness and finishing to the required line, level & alignment, tile mat for joints filling, including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications. Rate also includes removing the white wash / distemper / paint thoroughly, chipping or hacking to make the levelled surface, cleaning the surface free from dirt and other foreign matters etc.- Vitrified tiles or equivalent, 8	M2	1,371.45
251	0712	Providing weathering course on top of roof slab with 20 mm size brick jelly and pure lime (no sand) in the proportion of 32 : 12.5 to the required thickness, well beaten with wooden battens, so as to secure adequate slope, all as per standard specifications and instructions of Engineer-in-charge.	M3	3,061.05
252	0713	Providing weathering course on top of roof slab with one course of split tiles or pressed flat tiles of 17 to 20 mm thick and of approved brand and size, set in cement mortar 1:3 with an admixture of crude oil at 10% by weight of cement, 12 mm thick bedding layer including pointing the tiles with the same oiled mortar etc., complete, all as per standard specifications.	M2	373.30
253	0714	Labour charges for repairing the weathering course tiles. Scope includes cleaning the surfaces by removal of vegetation growth, dry leaves etc., racking out the tile joints, replacing the damaged tiles wherever necessary with new ones supplied by department, pointing the tiles with cement mortar 1:3 and applying mendo non-tar plast cement over the pointed surfaces. (Tiles and mendo non tar plast cement will be supplied by BHEL at stores at free of cost.)	M2	118.60
254	0715	Same as per item No. 0713, but excluding application of Mendo non tar plast cement.	M2	110.90

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
255	0716	Attending to leak at roof slab and wall joint, all as per instructions of Engineer-in-charge. Rate includes dismantling the weathering course tiles, brick jelly lime concrete etc. for a width of minimum 100 mm at wall and slab joint for required depth so as to reach the top surface of roof slab, finishing with cement concrete in the proportion of one part of cement and three parts of 6 mm stone chips in the dismantled portion with bitumen compound filler at joint and top, finished with tiles at 1 : 1 slope along with walls including hacking walls, replacing the damaged tiles, pointing with CM 1:3 etc. complete. Cement, tiles and bitumen compound will be supplied by BHEL at stores at free of cost.	RM	176.40
256	0717	Same as per item No. 0715 but including cost of tiles. (i.e.) Cement and bitumen compound only will be supplied by BHEL at Stores, at free of cost.	RM	205.20
257	0718	Providing weathering course on top of roof slab with one course of split tiles or pressed flat tiles of 17 to 20 mm thick of approved brand and size set in CM 1:3 with Roff plaster master plus solution (100 ml of plaster master liquid to be mixed with required quantity of water for one bag of cement), 12 mm thick bedding layer including pointing the tiles with same mortar etc. complete, all as per std. specifications. Roff plaster master only will be supplied by BHEL at Stores at free of cost.	M2	354.05
258	0719	Same as per item No. 0717 but required tiles will also be supplied by BHEL at Stores at free of cost.	M2	85.25
259	0720A	Labour charges for removing the damaged weathering course tiles and laying with new tiles set in CM 1:3 with Roff plaster master water solution (100 ml of plaster master liquid to be mixed with required quantity of water for one bag of cement), 12 mm thick bedding layer including pointing the tiles with same mortar etc. complete, all as per std. specifications. Tiles and Roff plaster master will be supplied by BHEL at Stores at free of cost. 1 to 5 tiles at one spot.	EACH	37.40
260	0720B	Labour charges for removing the damaged weathering course tiles and laying with new tiles set in CM 1:3 with Roff plaster master water solution (100 ml of plaster master liquid to be mixed with required quantity of water for one bag of cement), 12 mm thick bedding layer including pointing the tiles with same mortar etc. complete, all as per std. specifications. Tiles and Roff plaster master will be supplied by BHEL at Stores at free of cost. Beyond 5 but up to 10 tiles at one spot.	EACH	63.85
261	0721	Rectifying to the weathering course tile joints by scraping the old mortar joints to a minimum depth of 12 mm with wire brush and cleaning the surface of all dirt, loose mortar etc., pointing the grooved joints with CM 1:3 thoroughly mixed with Roff plaster master solution (100 ml. of plaster master liquid to be mixed with not more than 40 litre of water for one bag of cement), finishing the pointed joints smoothly, proper curing etc. complete. Roff plaster master liquid will be supplied by BHEL at Stores at free of cost.	M2	101.30

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
262	0722	Rectifying to the corners between wall and roof slab by removing the brick work and concrete at least to a depth of 25 mm along the corners horizontally, clearing the opened corners off all dirt and filling with roofing bituminous compound pressed gently to form smooth concaved corners and finishing the surface with CM 1:3, 12 mm thick for a maximum width of 25 cm, thoroughly mixed with Roff plaster master solution (100 ml Roff plaster master liquid to be mixed with not more than 40 litre of water for one bag of cement) to a neat finish. Bituminous compound and Roff plaster master liquid will be supplied by BHEL at Stores at free of cost.	RM	50.80
263	0801A	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 12mm thick	M2	93.25
264	0801B	Plastering with cement mortar as per standard specifications. In cement mortar 1:4, 12mm thick	M2	93.05
265	0801C	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 12mm thick	M2	92.95
266	0801D	Plastering with cement mortar as per standard specifications. In cement mortar 1:6, 12mm thick	M2	92.85
267	0801E	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 15mm thick	M2	107.30
268	0801F	Plastering with cement mortar as per standard specifications. In Cement mortar 1:4, 15mm thick	M2	107.05
269	0801G	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 15mm thick	M2	106.90
270	0801H	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 15mm thick	M2	106.80
271	0801I	Plastering with cement mortar as per standard specifications. In Cement mortar 1:3, 20mm thick	M2	125.20
272	0801J	Plastering with cement mortar as per standard specifications. In Cement Mortar 1:4, 20mm thick	M2	124.90
273	0801K	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 20mm thick	M2	124.70
274	0801L	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 20mm	M2	124.60
275	0802	Damp proof course with cement mortar 1:3, 12 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.	M2	108.85
276	0803	Damp proof course with cement mortar 1:3, 20 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.	M2	149.35
277	0804	Damp proof course with cement mortar 1:3, 12 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	M2	99.05
278	0805	Damp proof course with cement mortar 1:3, 20 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	M2	134.15
279	0806	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications.	M2	82.10

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
280	0807	Plain cement mortar bands of 12 mm thick in cement mortar 1:4 to the specified width as per standard specifications.	M2	228.85
281	0808	Stucco plastering 12 mm thick with cement mortar 1:3 (1 cement and 3 coarse aggregate of 6 to 12 mm size) over a backing plastering, all as per standard specifications. (Backing plaster will be paid for separately)	M2	96.55
282	0809	Exposed aggregate plastering with crushed stone graded from 6 to 12 mm nominal size dashed over and including fresh plaster in cement mortar 1:3, 12mm thick over a backing coat of cement plaster (which will be paid separately), all as per standard specifications.	M2	128.15
283	0810	Finishing the plastered surfaces with a floating coat of cement (punning), all as per standard specifications.	M2	21.70
284	0811	Flush/Ruled pointing on stone work with cement mortar 1:3 as per standard specifications.	M2	114.05
285	0812	Pointing to rough stone dry packing in aprons and revetments including grouting to a depth of 40 mm with cement mortar 1:3, all as per standard specifications.	M2	62.90
286	0813	Flush pointing with cement mortar 1:3 for stone slab pavement or precast slab pavement or tiling works etc., all as per standard specifications.	M2	95.80
287	0814	Providing black board in walls in cement mortar 1:2 mixed with black oxide over rough plastered surface in cement mortar 1:4, 12 mm thick and providing 25 mm border around in cement mortar 1:3 neatly rounded including providing and fixing with teak wood beading 50 x 25 mm on top of board and hooks and chalk stand on the bottom of board etc., all as per standard specifications.	M2	836.30
288	0837	Providing black board in walls in cement mortar 1:2 mixed with black oxide over rough plastered surfaces in cement mortar 1:4, 12 mm thick and providing 25 mm border around in cement mortar 1:3, neatly rounded etc. complete.	M2	206.35
289	0838	Repairs to plaster of thickness 12 to 20 mm in patches of area 2.5 Sq.m and under with cement mortar 1:4 including cutting the patches in proper shape, preparing and plastering the surface of the walls completely including disposal of rubbish within a lead of 50 metre.	M2	145.35
290	0843	Extra charges for plastering to exterior walls of height more than 13.50 metre from plinth level for every additional height of 3 metre or part thereof.	M2	30.90
291	0844	Extra charges for plastering to spherical ceiling.	M2	56.70
292	0901A	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. Soling stones 15 cm average thickness (measured in stacks will be reduced by 15 % for payment)	M3	298.00
293	0901B	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 53 mm IRC size metal (measured in stacks will be reduced by 7.5 % for payment)	M3	782.55
294	0901C	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 37.50 mm IRC size metal / 37.5 or 40 mm Stone metal ISS (measured in stacks will be reduced by 7.5 % for payment)	M3	1,029.90

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
295	0901D	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 22.40 mm IRC size metal (No voids)	M3	1,269.45
296	0901E	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 11.20 mm IRC size metal (No voids)	M3	837.15
297	0901F	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. 6 mm IRC size metal (No voids)	M3	647.95
298	0901G	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. River sand (No voids)	M3	450.55
299	0901H	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. Gravel / Red earth (No voids)	M3	240.85
300	0901I	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. Earth (measured in stacks will be reduced by 20 % for payment)	M3	207.30
301	0901K	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. IRC graded stone aggregate of size range from 90 to 45 mm (measured in stacks will be reduced by 7.5 % for payment)	M3	539.00
302	0901L	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. IRC graded stone aggregate of size range from 63 to 45 mm (measured in stacks will be reduced by 7.5 % for payment)	M3	680.00
303	0901M	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. IRC graded stone aggregate of size range from 53 to 22.4 mm (measured in stacks will be reduced by 7.5 % for payment)	M3	930.00
304	0902A	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 150 mm dia.	RM	333.95
305	0902B	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 250 mm dia.	RM	443.20
306	0902C	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 300 mm dia.	RM	486.20
307	0902D	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 450 mm dia.	RM	676.05

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
308	0902E	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 600 mm dia.	RM	1,318.05
309	0902F	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 750 mm dia.	RM	1,602.95
310	0902G	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 900 mm dia.	RM	1,890.85
311	0902H	Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost. 1200 mm dia.	RM	2,935.60
312	0903A	Providing of granular sub- base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 For Grading-V Material (Drainage/ Top Layer)	M3	1,161.65
313	0903B	Providing of granular sub- base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 For Grading-III Material (Bottom Layer if thickness more than 300 mm)	M3	1,212.90
314	0904	Providing and laying 50mm consolidated thick Dence bituminous macadam using 0.24 cum of 26.50-13.20 mm, 0.25 cum of 13.20-2.36 mm and 0.23 cum of 2.36mm and below and with 53.20 kgs of VG 30/VG 40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to work site, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory / Pneumatic Roller to the required density etc., including labour for attending tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic rollers and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5.	M3	10,202.20

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
315	0905	Providing and laying 75mm consolidated thick Dense Bituminous macadam using 0.40 cum of 37.50-13.20mm, 0.35 cum of 13.20-2.36mm and 0.36 cum of 2.36mm and below size IRC metal with 71.30 kgs of VG30/ VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 75mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 of MORTH rev-5.	M3	9,448.15
316	0906	Providing and laying 50mm consolidated thick bituminous macadam using 0.20 cum of 26.50-13.20mm, 0.43 cum of 13.20-2.36mm and 0.08 cum of 2.36mm and below size IRC metal with 37 Kgs of VG30/ VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 50mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 504 of MORTH Rev-5	M3	8,297.90
317	0907	Providing and laying 80mm consolidated thick bituminous macadam using 0.64 cum of 37.5 13.20mm, 0.44 cum of 13.2 - 2.36mm and 0.13 cum of 2.36mm and below size IRC metal with 62 Kgs of VG30/ VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 80mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 504 of MORTH Rev-5.	M3	8,391.65

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
318	0908	Providing and laying Premix Carpet with Seal Coat Type - A to 20 mm thick using 0.18 cum of 13.20mm, 0.09 cum of 11.20mm and 0.09 cum of 6.70mm with 24.40 kgs of VG30 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 50mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per MORTH Rev-5	M2	241.65
319	0909	Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam of 250mm thick specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with pavers in Sub Base/ Base course on well prepared surface and compacting with vibratory roller to achieve the desired density including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev-5	M3	1,487.60
320	0910	Providing and laying Bituminous Concrete to 40 mm thick using 0.13 cum of 19.00-9.50 mm, 0.17 cum of 9.50-2.36mm and 0.26 cum of 2.36 and below with 50.30 kgs of VG30/ VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9 m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 507 of MORTH Rev-5	M3	11,230.65
321	0911	Providing laying and rolling of close graded premix carpet of compacted 20mm thickness using 0.0162 cum of 13.20-11.20mm, 0.1404 cum of 11.2-5.6mm, 0.0729 cum of 5.60-2.80 mm, 0.0405 cum of 2.80mm and below (Type B) graded HBG metal using 19kg of VG30 bitumen for 10sqm including premixing at CMP, conveyance by tipper lorry, laying by paver finisher and rolling by Vibratory Roller including cost and conveyance of all materials, hire charges of all TandP all labour charges, fuel and all other incidental charges etc., Complete as per specification using CMP as per clause 508 of MORTH Rev-5	M2	200.35

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
322	0912	Providing and laying, spreading and compacting graded stone aggregates to Crusher Run Macadam specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with pavers in Sub Base/ Base course on well prepared surface and compacting with vibratory roller to achieve the desired density including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 407 of MORTH Rev-5	M3	1,410.45
323	0913	Providing and laying Prime Coat over WBM/WMM surface using 7 Kg of Emulsion Bitumen (SS1) per 10 sq.m for preparatory to another bituminous construction over it including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 502 of MORTH Rev-5	M2	82.55
324	0914	Providing and laying Prime Coat over CRM/ Gravel base using 9 Kg of Emulsion Bitumen (SS1) per 10 sq.m. for preparatory to another bituminous construction over it including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 502 of MORTH Rev- 5	M2	100.30
325	0915	Providing and laying Tack Coat over Dry Lean Cement Concrete surface using 3.00 Kg of Bitumen Emulsion (RS1) per 10 sqm for preparatory to another bituminous construction over it including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 503 of MORTH Rev-5	M2	20.15
326	0916	Providing and laying Tack Coat over Existing BT surface using 2 Kg of Bitumen Emulsion (RS1) per 10 sqm for preparatory to another bituminous construction over it including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 503 of MORTH Rev-5	M2	19.15
327	0917	Providing and laying Tack Coat over WBM/ WMM surface (treated with primer) using 2.50 Kg of Bitumen Emulsion (RS1) per 10 sqm for preparatory to another bituminous construction over it including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per Clause 503 of MORTH Rev-5	M2	17.35
328	0918	Providing, laying and compacting Well Gravel including cost and conveyance of the same to work site with an average lead of 5 Km including stacking the same to departmental gauge for premeasurement including all labour charges for laying, spreading etc., complete and directed by the departmental engineers for making up of low berms	M3	234.10
329	0919	Providing, laying and compacting Gravel including cost and conveyance of the same to work site with an average lead of 5 Km including stacking the same to departmental gauge for premeasurement including all labour charges for laying, spreading etc., complete and as directed by the departmental engineers for making up of low berms	M3	333.10

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
330	0920	Providing and laying Bituminous Concrete to 50 mm thick using 0.22 cum of 26.5- 13.20mm, 0.24 cum of 13.20-2.36mm and 0.26cum of 2.36 and below IRC HBG metal with 62.40 kgs of VG30/ VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing them in required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to paver site, spreading the mix to uniform thickness of 50mm with mechanical paver to the specified grades and cross sections and consolidated by 8-10 tonne Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver to site etc., including hire charges and fuel charges for 20-30 t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic roller and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP clause 507 of MORTH.	M3	10,786.20
331	0921	Formation of embankment with earth from quarrying place and compaction by power roller (100 % compaction)	M3	539.90
332	0922	Labour charges for spreading the patch mat material for road patch work. Rate includes preparation of surface, brushing, cleaning, laying patch mat, compacting etc. complete. Patch mat will be supplied by BHEL at stores at free of cost.	M2	42.00
333	1001A1	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Brick work in cement mortar	M3	530.25
334	1001A2	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Stone rubble masonry in cement mortar	M3	632.70
335	1001A3	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Old plastering / skirting raking out joints / chipping the concrete and roughening the surface.	M2	14.15

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
336	1001A4	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Plain Cement Concrete.	M3	387.15
337	1001A5	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC works including stacking of steel bars.	M3	916.95
338	1001A6	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC or PCC (Using jack hammer for pockets / cable trenches / industrial heavy duty flooring)	M3	1599.85
339	1001A7 (i)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Precast concrete or stone slabs in walls, partition walls etc. Thickness up to 40 mm	M2	78.00
340	1001A7 (ii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Precast concrete or stone slabs in walls, partition walls etc. Thickness above 40 mm up to 75 mm	M2	116.80
341	1001A8	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC louvers / RCC jally	M2	152.85
342	1001A9	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Ellis pattern finish / Insitu mosaic.	M2	27.95

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
343	1001A10	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Tile work in floors and roofs laid in cement mortar.	M2	27.70
344	1001A11	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Brick jelly lime concrete	M3	219.15
345	1001A14	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. IWC with 'P' trap and foot rests	SET	240.20
346	1001A15	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. EWC (excluding flushing cistern) / Urinal (earthenware) of any size including foot rests / Wash basin with connected fittings / RCC precast sink or other readymade sinks with connected fittings/ Nahani trap.	Each	144.10
347	1001A16	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Flushing cistern of any size	Each	272.45
348	1001A17	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. G.I / PVC pipe lines of various dia. including all specials.	RM	10.80

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
349	1001A18	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. A.C / C.I rain water pipes up to 150 mm dia. with fittings and clamps.	RM	20.15
350	1001A19	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. S.W pipe lines up to 225 mm dia.	RM	30.25
351	1001A20 (i)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Up to 150 mm dia.	RM	127.60
352	1001A20 (ii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Above 150 up to 300 mm dia.	RM	169.60
353	1001A20 (iii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Above 300 mm dia.	RM	220.10
354	1001A28	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Rough stone dry packing for apron, revetments etc.	M3	219.60

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
355	1001A29	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. R.C.C fencing post including all earthwork, dismantling base concrete etc.	Each	87.80
356	1001A30	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Barbed wire / flexible wire rope in fencing.	KG	9.45
357	1001A31	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. R.C.C pipes up to 450 mm dia.	RM	183.55
358	1001A32	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Kerb stone	RM	17.85
359	1001A33	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Bituminous road.	M3	376.20
360	1001A34	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. W.B.M /W.M.M road.	M3	233.20
361	1101A	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 15 mm dia. nominal bore.	RM	147.10
362	1101B	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 20 mm dia. nominal bore.	RM	180.00

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
363	1101C	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 25 mm dia. nominal bore.	RM	239.65
364	1101D	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 32 mm dia. nominal bore.	RM	290.10
365	1101E	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 40 mm dia. nominal bore.	RM	345.10
366	1101F	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 50 mm dia. nominal bore.	RM	431.55
367	1101G	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 65 mm dia. nominal bore.	RM	531.25
368	1101H	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 80 mm dia. nominal bore.	RM	677.65
369	1101I	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 100 mm dia. nominal bore.	RM	835.65
370	1101J	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 125 mm dia. nominal bore.	RM	1,409.55
371	1101K	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. (Internal work - exposed on walls) 150 mm dia. nominal bore.	RM	1,627.45
372	1102	Making chases up to 7.50 x 7.50 cm in walls for concealed pipe line works etc. including making good to match with existing one after housing pipes etc. complete. Rate excludes cost of pipes.	RM	57.40
373	1103A	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 15 mm dia. nominal bore.	RM	87.00

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
374	1103B	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 20 mm dia. nominal bore.	RM	110.60
375	1103C	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 25 mm dia. nominal bore.	RM	162.10
376	1103D	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 32 mm dia. nominal bore.	RM	199.20
377	1103E	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 40 mm dia. nominal bore.	RM	232.70
378	1103F	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 50 mm dia. nominal bore.	RM	290.10
379	1103G	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 65 mm dia. nominal bore.	RM	381.70
380	1103H	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 80 mm dia. nominal bore.	RM	504.25
381	1103I	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 100 mm dia. nominal bore.	RM	650.95
382	1103J	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 125 mm dia. nominal bore.	RM	1,150.25
383	1103K	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 150 mm dia. nominal bore.	RM	1,360.80
384	1104A	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 18/20 mm OD (10 kg/Sq.cm)	RM	62.90

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
385	1104B	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 25 mm OD (10 kg/Sq.cm)	RM	80.05
386	1104C	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 32 mm OD (10 kg/Sq.cm)	RM	96.10
387	1104D	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 40 mm OD (6 kg/Sq.cm)	RM	119.65
388	1104E	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 50 mm OD (6 kg/Sq.cm)	RM	156.80
389	1105A	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 18/20 mm OD (10 kg/Sq.cm)	RM	23.35
390	1105B	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 25 mm OD (10 kg/Sq.cm)	RM	32.35
391	1105C	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 32 mm OD (10 kg/Sq.cm)	RM	46.25
392	1105D	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 40 mm OD (6 kg/Sq.cm)	RM	51.10
393	1105E	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 50 mm OD (6 kg/Sq.cm)	RM	72.35
394	1105F	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 63 mm OD (6 kg/Sq.cm)	RM	108.50
395	1105G	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 75 mm OD (6 kg/Sq.cm)	RM	150.70

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
396	1105H	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 90 mm OD (6 kg/Sq.cm)	RM	211.45
397	1105I	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 110 mm OD (6 kg/Sq.cm)	RM	294.65
398	1105J	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 140 mm OD (6 kg/Sq.cm)	RM	464.30
399	1105K	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 160 mm OD (6 kg/Sq.cm)	RM	594.70
400	1105L	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 180 mm OD (6 kg/Sq.cm)	RM	774.35
401	1105M	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 200 mm OD (6 kg/Sq.cm)	RM	941.90
402	1106A	Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 75 mm OD	RM	128.05
403	1106B	Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 110 mm OD	RM	225.50
404	1106C	Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 110 mm OD	RM	364.85
405	1107A	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 x75 x 75 mm single tee with door.	Each	134.50
406	1107B	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 x 110 x 110 mm single tee with door.	Each	197.90

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
407	1107C	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 x 160 x 160 mm single tee with door.	Each	335.15
408	1107D	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 x75 x 75 mm single tee without door.	Each	119.10
409	1107E	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 x110 x 110 mm single tee without door.	Each	174.80
410	1107F	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 x160 x 160 mm single tee without door.	Each	288.85
411	1107G	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 mm shoe	Each	68.60
412	1107H	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 mm shoe	Each	101.70
413	1107I	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 mm shoe	Each	174.90
414	1107J	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 75 mm bend	Each	81.90
415	1107K	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 110 mm bend	Each	150.25
416	1107L	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc., complete. 160 mm bend	Each	191.50
417	1108A	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 15 to 25 mm nominal bore	Each	421.70

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
418	1108B	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 32 mm nominal bore	Each	545.35
419	1108C	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 40 mm nominal bore	Each	712.80
420	1108D	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 50 mm nominal bore	Each	962.70
421	1108E	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 80 mm nominal bore	Each	2,730.25
422	1108F	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 100 mm nominal bore	Each	4,972.00
423	1109A	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 15 mm nominal bore.	Each	207.55
424	1109B	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 20 mm nominal bore.	Each	265.25
425	1109C	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 25 mm nominal bore.	Each	342.10
426	1110A	Providing and fixing in position of following of approved brand (ISI marked) 15 mm nominal bore C.P brass long nose bibcock	Each	748.70
427	1110B	Providing and fixing in position of following of approved brand (ISI marked) 15mm nominal C.P brass stop cock (concealed)	Each	585.95
428	1110C	Providing and fixing in position of following of approved brand (ISI marked) 15 mm nominal C.P brass long body bibcock	Each	577.10
429	1111	Providing and fixing in position 15 mm nominal bore C.P brass angle valve for basin mixer and geyser points of approved brand (ISI marked)	Each	479.85
430	1112	Providing and fixing in position 100 mm dia. C.P brass shower rose (tilting type) of approved brand with 15 or 20 mm dia. inlet.	Each	67.65
431	1113	Providing and fixing in position of white glazed earthenware wash basin of size 550 x 400 x 225 mm of approved brand with M.S or C.I brackets painted with two coats of synthetic enamel paint, single 15 mm C.P brass pillar tap and C.P brass chain with rubber plug, 32 mm C.P brass waste coupling of standard pattern, 32 mm dia. PVC flexible waste pipe etc. complete, including cutting and making good the walls wherever required.	Each	1,605.80

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
432	1114	Providing built-in-wash basin of inner dimension 0.30 x 0.25 m with 50 mm thick bottom slab in cement concrete 1:2:4, using 12 to 20 mm size hard broken granite stone jelly and 30 mm thick side walls in cement concrete 1:2:4 using 6 mm granite stone chips applied over chicken mesh and finished with insitu gray mosaic of 10 mm thick wearing layer on both faces. Rate includes cost of all materials, labour, centering, curing and all other incidentals but excluding cost of binding wire and fabrication charges for grills.	RM	1,154.50
433	1115A	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) PTMT towel rail 600 mm	Each	382.05
434	1115B	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) Brass chromium plated towel rail 600 mm and 20 mm dia.	Each	399.65
435	1115C	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) Anodized aluminium Towel rail 60cm long and 20mm dia. with brackets	Each	266.55
436	1118	Providing and fixing RCC precast sink of size 60 x 45 x 25 cm in cement concrete of mix 1:2:4 for 25 mm thick bottom slab and 20 mm thick side walls using 6 mm granite stone jelly, applied on chicken mesh and plastered both sides with cement mortar 1:4, 12 mm thick and finished smooth, supply and fixing PVC waste pipe 32 mm dia. with necessary coupling. etc., complete. Rate includes cost of all materials, labour, curing, carrying and fixing in position etc. but excluding cost of binding wire and fabrication charges for grills, all as per standard specifications.	Each	1,244.40
437	1119A	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia. with necessary C.P waste coupling etc. complete. Cudappa sink of size 600X450X200 or thereabouts (outer dimensions) - 12 mm thick.	Each	766.10
438	1119B	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia. with necessary C.P waste coupling etc. complete. Cudappa sink of size 600X600X200 or thereabouts (outer dimensions) - 12 mm thick.	Each	932.15
439	1119C	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia. with necessary C.P waste coupling etc. complete. Marble (white) sink of size 23"x17"x9"/10" or thereabouts (outer dimensions) - 12 mm thick.	Each	1,174.80

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
440	1119D	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia. with necessary C.P waste coupling etc. complete. Marble (white) sink of size 23"x23"x9"/10" or thereabouts (outer dimensions) - 12 mm thick.	Each	1,460.80
441	1119E	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia. with necessary C.P waste coupling etc. complete. Granite (black) sink of size 23"x17"x9"/10" or thereabouts (outer dimensions) - 12 mm thick.	Each	1,614.80
442	1119F	Providing and fixing in position of readymade sink including PVC flexible waste pipe of 32 mm dia. with necessary C.P waste coupling etc. complete. Granite (black) sink of size 23"x23"x9"/10" or thereabouts (outer dimensions) - 12 mm thick.	Each	1,900.80
443	1120	Conveying RCC / readymade sink from BHEL stores to site of work and fixing in proper position with cement mortar including supply and fixing 32 mm dia. PVC waste pipe with necessary coupling etc. complete. Rate excludes cost of sink which will be supplied by BHEL at stores at free of cost.	Each	181.50
444	1121	Providing and fixing in position of 100 x 75 mm Nahani trap with PVC grating, all as per standard specifications.	Each	182.70
445	1122	Providing and fixing in position of 150 mm SW gully trap with HCl grating, all as per standard specifications.	Each	288.75
446	1123A	Providing and fixing in position of brass ball valve of approved brand with plastic float fitted with brass rod etc. complete. 20mm nominal bore	Each	385.80
447	1123B	Providing and fixing in position of brass ball valve of approved brand with plastic float fitted with brass rod etc. complete. 25mm nominal bore	Each	432.30
448	1124A	Providing and fixing in position of Indian type white glazed earthenware water closet pan of approved brand with suitable P or S trap including a pair of white glazed foot rest etc. complete. 580 mm size	Each	1,112.35
449	1124B	Providing and fixing in position of Indian type white glazed earthenware water closet pan of approved brand with suitable P or S trap including a pair of white glazed foot rest etc. complete. 500 mm size	Each	1,579.85
4450	1125A	Providing and fixing in position of orissa pattern water closet of approved brand with integral type foot rests, suitable P or S trap etc. complete. 580 mm size (White) (Parryware / Neycer / Cera)	Each	1,815.25
451	1125B	Providing and fixing in position of orissa pattern water closet of approved brand with integral type foot rests, suitable P or S trap etc. complete. 580 mm size (colour)	Each	2,146.35
452	1126	Providing and fixing in position of 25 mm nominal bore C.P half turn flush valve of approved brand (ISI marked) in pipe lines.	Each	1,017.50

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
453	1127A	Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. complete. White glazed (white seat and lid)	Each	4,530.05
454	1127B	Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. complete. Colour glazed with colour seat and lid	Each	4,931.55
455	1128	Providing and fixing in position of 10 litre low level PVC flushing cistern of approved make with fittings and flush pipe etc. complete.	Each	679.95
456	1129	Providing and fixing in position 32 mm dia. G.I flush pipe with brass union for high level flushing cistern including cutting and making good the walls and floors etc. complete.	Each	543.95
457	1130A	Providing and fixing in position of white glazed earthenware urinal of approved brand with teakwood plugs and screws/clamps, including standard PVC flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, cutting of floor and walls and making good all damages and finishing to match with the existing work etc., complete. Flat back angular lipped urinal of 430x260x350mm or 340x410x265 mm	Each	1,383.50
458	1130B	Providing and fixing in position of white glazed earthenware urinal of approved brand with teakwood plugs and screws/clamps, including standard PVC flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, cutting of floor and walls and making good all damages and finishing to match with the existing work etc., complete. Flat back half stall urinal of size 580x380x350 mm	Each	2,606.70
459	1131A	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 100mm dia. S.W Pipes	RM	176.75
460	1131B	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 150 mm dia. S.W Pipes	RM	270.45
461	1131C	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 200 mm dia. S.W Pipes	RM	402.65

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
462	1131D	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc. complete. 225 mm dia. S.W Pipes	RM	491.75
463	1132A	Providing rectangular/circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Up to 0.90 m depth (Rectangular)	Each	4,131.75
464	1132B	Providing rectangular / circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 0.90 and up to 1.20 m depth (Rectangular)	Each	6,589.65
465	1132C	Providing rectangular / circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.20 and up to 1.50 m depth (Rectangular)	Each	8,361.35

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
466	1132D	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.50 and up to 1.80 m depth (Rectangular)	Each	9,284.90
467	1132E	Providing rectangular/circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.80 and up to 2.10 m depth (Rectangular)	Each	10,773.80
468	1132F	Providing rectangular/circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.10 and up to 2.40 m depth (Rectangular)	Each	12,463.50

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
469	1132G	Providing rectangular/circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.40 and up to 2.70 m depth (Rectangular)	Each	15,600.85
470	1132H	Providing rectangular/circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.70 and up to 3.00 m depth (Rectangular)	Each	16,756.65
471	1132I	Providing rectangular/circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 3.00 and up to 3.30 m depth (Rectangular)	Each	18,619.60

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
472	1132J	Providing rectangular/circular manhole as per Drawing No. D / 1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 3.30 and up to 3.60 m depth (Rectangular)	Each	20,482.55
473	1133A	Supply and fixing C.I cover with / without frame for manholes / gully traps. 500 mm dia. C.I cover only (Without frame) (Medium duty) Weight of the cover to be not less than 58 K.G.	Each	2,587.35
474	1133B	Supply and fixing C.I cover with / without frame for manholes / gully traps. 500 mm dia. C.I cover with frame (Medium duty) Total weight of cover and frame to be not less than 116 K.G (Weight of cover 58 K.G and weight of frame 58 K.G)	Each	5,309.70
475	1133C	Supply and fixing C.I cover with / without frame for manholes / gully traps. 560 mm dia. C.I cover only. (Without frame) (Heavy duty) Weight of cover to be not less than 108 K.G.	Each	5,562.35
476	1133D	Supply and fixing C.I cover with/without frame for manholes/gully traps. 560 mm dia. C.I cover with frame. (Heavy duty) Total weight of cover and frame to be not less than 208 K.G (Weight of cover 108 K.G and weight of frame 100 K.G)	Each	10,045.20
477	1133E	Supply and fixing C.I cover with/without frame for manholes/gully traps. 300 x 300 mm C.I cover without frame for gully trap (standard pattern). The weight of cover to be not less than 4.50 K.G.	Each	260.60
478	1142A	Replacement to the damaged water closet by providing new Orissa water closet pan of approved brand with suitable trap. Rate includes dismantling the damaged water closet with foot rests, trap, Ellis / mosaic floor finish with base concrete, sand and refilling with fresh river sand, providing new Orissa pan with trap and fixing in position, providing 20 mm thick Ellis pattern finish over 75 mm thick floor concrete in PCC 1:5:10 using 40 mm size stone jelly for that area, finishing the side walls to match with the existing one etc. complete. 580 mm size (White)	Each	1,617.90
479	1142B	Replacement to the damaged water closet by providing new Orissa water closet pan of approved brand with suitable trap. Rate includes dismantling the damaged water closet with foot rests, trap, Ellis/mosaic floor finish with base concrete, sand and refilling with fresh river sand, providing new Orissa pan with trap and fixing in position, providing 20 mm thick Ellis pattern finish over 75 mm thick floor concrete in PCC 1:5:10 using 40 mm size stone jelly for that area, finishing the side walls to match with the existing one etc. complete. 580 mm size (White), but with 20 mm thick insitu mosaic floor finish as per usual practice instead of Ellis pattern finish.	Each	1,788.40

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
480	1143	Replacement to the damaged European water closet by providing new white glazed European water closet (white) 400 mm high of approved brand with seat and lid. Rate includes dismantling the damaged water closet, providing new EWC, fixing, all labour etc. complete.	Each	1,495.60
481	1144	Labour charges for dismantling the trap alone without damaging the water closet and refixing with new trap supplied by BHEL at stores at free of cost and making good all damages and finishing to match with the existing one etc. complete.	Each	211.75
482	1145	Replacement to the damaged nahani trap by providing and fixing in position of new PVC Nahani trap 100 x 75 mm with grating as per std. specs. Rate includes labour for dismantling the existing trap, refixing with new one, making good all damages and finishing to match with the existing one etc., complete.	Each	352.00
483	1146	Providing 32 mm dia PVC waste pipe to sink with necessary coupling etc complete.	Each	49.50
484	1149A	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 15 mm dia. nominal bore.	RM	58.55
485	1149B	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 20 mm dia. nominal bore.	RM	64.85
486	1149C	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 25 mm dia. nominal bore.	RM	71.4
487	1149D	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 32 mm dia. nominal bore.	RM	80.05
488	1149E	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 40 mm dia. nominal bore.	RM	102.15
489	1149F	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 50 mm dia. nominal bore.	RM	124.10

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
490	1149G	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 65 mm dia. nominal bore.	RM	135.20
491	1149H	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 80 mm dia. nominal bore.	RM	143.70
492	1149I	1Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 100 mm dia. nominal bore.	RM	229.75
493	1149J	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 125 mm dia. nominal bore.	RM	163.35
494	1149K	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls and floors, including cutting and making good the walls and floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 150 mm dia. nominal bore.	RM	172.40
495	1150A	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 15 mm diameter pipe	RM	8.45
496	1150B	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 20 mm diameter pipe	RM	9.95
497	1150C	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 25 mm diameter pipe	RM	13.10
498	1150D	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 32 mm diameter pipe	RM	15.50
499	1150E	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 40 mm diameter pipe	RM	18.40
500	1150F	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 50 mm diameter pipe	RM	21.70

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
501	1151A	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Up to 500 litre.	Each	99.00
502	1151B	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Above 500 but up to 1000 litre.	Each	123.20
503	1151C	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Above 1000 but up to 2000 litre.	Each	198.00
504	1152A	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 15 mm dia. nominal bore.	RM	8.45
505	1152B	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 20 mm dia. nominal bore.	RM	8.45
506	1152C	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 25 mm dia. nominal bore.	RM	12.90
507	1152D	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 32 mm dia. nominal bore.	RM	12.95
508	1152E	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 40 mm dia. nominal bore.	RM	17.25
509	1152F	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 50 mm dia. nominal bore.	RM	17.45

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
510	1152G	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 65 mm dia. nominal bore.	RM	30.55
511	1152H	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 80 mm dia. nominal bore.	RM	30.75
512	1152I	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 100 mm dia. nominal bore.	RM	45.10
513	1152J	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 125 mm dia. nominal bore.	RM	45.10
514	1152K	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 150 mm dia. nominal bore.	RM	70.50
515	1153A	Providing and fixing gun metal non- return valve of approved quality(screwed end) 25 mm nominal bore (Horizontal)	Each	388.30
516	1153B	Providing and fixing gun metal non- return valve of approved quality (screwed end) 25 mm nominal bore (Vertical)	Each	421.30
517	1153C	Providing and fixing gun metal non- return valve of approved quality (screwed end) 32 mm nominal bore (Horizontal)	Each	522.70
518	1153D	Providing and fixing gun metal non- return valve of approved quality (screwed end) 32 mm nominal bore (Vertical)	Each	599.70
519	1153E	Providing and fixing gun metal non- return valve of approved quality (screwed end) 40 mm nominal bore (Horizontal)	Each	646.15
520	1153F	Providing and fixing gun metal non- return valve of approved quality (screwed end) 40 mm nominal bore (Vertical)	Each	855.15
521	1153G	Providing and fixing gun metal non- return valve of approved quality (screwed end) 50 mm nominal bore (Horizontal)	Each	934.80
522	1153H	Providing and fixing gun metal non- return valve of approved quality (screwed end) 50 mm nominal bore (Vertical)	Each	1,143.80
523	1153I	Providing and fixing gun metal non- return valve of approved quality (screwed end) 65 mm nominal bore (Horizontal)	Each	1,674.25

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
524	1153J	Providing and fixing gun metal non- return valve of approved quality (screwed end) 65 mm nominal bore (Vertical)	Each	1,916.25
525	1153K	Providing and fixing gun metal non- return valve of approved quality (screwed end) 80 mm nominal bore (Horizontal)	Each	2,369.90
526	1153L	Providing and fixing gun metal non- return valve of approved quality (screwed end) 80 mm nominal bore (Vertical)	Each	3,216.90
527	1154	Supply at site of work and fixing in position of 32mm dia. CP bottle trap for water line connection in wash basin / urinals of approved brand and quality. All as per standard specifications and instructions of Engineer-in-charge.	Each	625.75
528	1155	Supplying and placing in proper position of Polyethylene cylindrical moulded vertical storage tank of 500 litres capacity of approved quality in buildings at required levels / floors as per the instruction of Engineer in charge. Rate shall include cost of the tank, taxes, duties, loading unloading transportation charges delivery to BHEL conveying to site of work and placing in position at required level, fixing the barrel nipple to the tank etc., and all other incidental charges etc., complete. Rate will exclude the cost of all special like barrel nipple etc., which will be issued by BHEL at free of cost	Each	3,759.30
529	1156	Providing and fixing in position of fire clay laboratory sink (white) of size 610 mm x 460 mm x 205 mm or thereabouts of approved make and quality Neycer or equivalent with 32 mm waste coupling, waste hose and 250 mm clamps with necessary fixing arrangements. Rate includes cost of sink, waste coupling, waste hose, clamps, labour for fixing and all other incidental charges etc., complete. All as per standard specifications and instructions of Engineer in charge.	Each	9,211.70
530	1157	Providing and fixing in position of white glazed earthen ware wash hand basin of oval shape size 540 mm x 460 mm or thereabouts of approved make and quality (Parry ware or equivalent) with 32 mm CP Waste coupling and necessary fixing arrangements. Rate includes cost of wash basin, waste coupling, labour for fixing and all other incidental charges, etc., complete. All as per standard specifications and instructions of Engineer in charge	Each	2,066.00
531	1158	Providing and fixing in position of Float valve- PTMT (Poly Tetra- Methylene Terephthalate) Ball Cock-20 mm nominal bore of PRAYAG (India) make with Epoxy coated Aluminium rod and HD Ball etc. complete (Full Set)	Each	302.00

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
532	1301B	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured up to bottom of pile cap). 400 mm dia. piles.	RM	1297.00
533	1301C	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured up to bottom of pile cap). 450 mm dia. piles.	RM	1,688.50
534	1302A	Boring, providing and installing cast in situ single under reamed vertical piles of specified diameter and required length below grade beam/pile cap in M 35 cement concrete piles using 20 mm and down grade hard broken granite stone jelly with necessary reinforcement including bailing out water, mobilization of necessary plants, equipments, materials etc. complete. Rate also includes cost of boring with bentonite solution, chiseling, cutting the pile to the required cut off level, leaving necessary dowel to grade beam/pile cap etc. all as per standard specifications and as directed by the Engineer-in -charge. (Length of pile for payment shall be measured up to the bottom of grade beam/pile cap. Rate excludes cost of cement, reinforcement steel and fabrication charges for reinforcement) 300 mm dia. piles	RM	1,736.45
535	1302B	Boring, providing and installing cast in situ single under reamed vertical piles of specified diameter and required length below grade beam/pile cap in M 35 cement concrete piles using 20 mm and down grade hard broken granite stone jelly with necessary reinforcement including bailing out water, mobilization of necessary plants, equipments, materials etc. complete. Rate also includes cost of boring with bentonite solution, chiseling, cutting the pile to the required cut off level, leaving necessary dowel to grade beam/pile cap etc. all as per standard specifications and as directed by the Engineer-in -charge. (Length of pile for payment shall be measured up to the bottom of grade beam/pile cap. Rate excludes cost of cement, reinforcement steel and fabrication charges for reinforcement) 400 mm dia. piles	RM	1,934.10

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
536	1302C	Boring, providing and installing cast in situ single under reamed vertical piles of specified diameter and required length below grade beam/pile cap in M 35 cement concrete piles using 20 mm and down grade hard broken granite stone jelly with necessary reinforcement including bailing out water, mobilization of necessary plants, equipments, materials etc. complete. Rate also includes cost of boring with bentonite solution, chiseling, cutting the pile to the required cut off level, leaving necessary dowel to grade beam/pile cap etc. all as per standard specifications and as directed by the Engineer-in -charge. (Length of pile for payment shall be measured up to the bottom of grade beam/pile cap. Rate excludes cost of cement, reinforcement steel and fabrication charges for reinforcement) 450 mm dia. piles	RM	2,049.55
537	1501	Grouting the H.D bolts, underneath the base plates etc., after alignment with wet cement grout (1:1), all as per standard specifications. Rate includes cleaning the sleeves/pockets, tools and plants required for the work etc., complete except cement which will be supplied by BHEL at stores at free of cost.	M3	16,000.65
538	1502	Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 40 or Pidigrout 10M or Flogrout 60 or Conbextra GP2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.	M3	53,487.40
539	1503	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 100 x 100 mm at top and 150 x 150 mm at bottom and 1.70 m high of which 45 cm will be embedded in cement concrete base below ground level. Rate includes shuttering, casting, finishing, curing, conveying and fixing in position but excluding cost of excavation, concrete base and fabrication charges for reinforcement which will be paid separately under respective items.	Each	179.05
540	1504	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 100 x 100 mm at top and 150 x 150 mm at bottom and 2.10 m high of which 45 cm will be embedded in cement concrete base below ground level. Rate includes shuttering, casting, finishing, curing, conveying and fixing in position but excluding cost of excavation, concrete base and fabrication charges for reinforcement which will be paid separately under respective items.	Each	212.05
541	1505	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 200 x 200 x 3650 mm of which 600 mm (approx.) will be embedded in cement concrete base below ground level. Rate includes making necessary groove arrangements on two sides of post for inserting 50 mm thick precast slabs, shuttering, casting, embedding 'Y' angle with necessary lugs, finishing, curing, conveying the posts including all lead, erection in position by embedding in foundation concrete up to a depth of 600 mm (approx.) below ground level true to plumb, line, level etc. complete, all as per drawings and as per instructions of Engineer in charge. Rate excludes cost of excavation, concrete base, precast slabs and it's inserting/fixing charges, fabrication charges for reinforcement and 'Y' angle which will all be paid separately under respective items.	Each	880.25

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
542	1506	Conveying RCC fencing post of overall height 1.70 to 2.10 m from stores/stack yard to site of work and fixing in position, line, level etc. Earth work excavation and concrete base will be paid separately.	Each	31.35
543	1507	Providing and fixing G.I barbed wire of 12 G, 2 ply and 4 barbs with spacing of barbs at 80 mm c/c for fencing including unwinding the coil and fixing in position with proper tension and alignment by means of providing G.I staples on wooden plugs or G.I binding wire tied to 6 mm bar ribs provided in the posts etc. complete.	RM	13.75
544	1508	Conveying G.I barbed wire, G.I staples/binding wires etc. from BHEL stores and fixing in position for fencing including unwinding the coil, fixing it in posts with proper tension and alignment by means of G.I staples on wooden plugs or G.I binding wire tied to 6 mm bar ribs provided in the posts etc. complete. Rate excludes G.I barbed wire and G.I staples / binding wire which will be supplied by BHEL at stores at free of cost.	RM	1.45
545	1509A	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. 0 - 1 Km	M3	114.00
546	1509B	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 1 Km but up to 2 Km	M3	121.65
547	1509C	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 2 Km but up to 3 Km	M3	130.25
548	1509D	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 3 Km but up to 4 Km	M3	138.80
549	1509E	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. Beyond 4 Km but up to 5 Km	M3	147.40
550	1514	Labour charges for providing tarpaulin pandal to an area up to 25 Sq.m in ground floor / first floor and removing the same after the function is over. All materials such as tarpaulin, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation of materials.	EACH	646.40

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
551	1533	Carrying from BHEL stores to site of work and fixing GI chain-link mesh for fencing including unwinding the roll and fixing in proper position, tension and alignment by means of MS flat as stiffeners, drilled with necessary holes or as the case may be and fixed with RCC / MS fencing posts by bolts, nuts, washers etc., complete. Payment will be made based on the laid area of chain-link mesh only. Rate includes cost of labour, tools and plants and all other incidentals etc., complete but excludes cost of chain link mesh, MS flats, bolts, nuts and washers which will be supplied by BHEL at stores at free of cost. Fabrication charges for MS flats including drilling holes etc. will be paid under separate item.	M2	16.50
552	1534A	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia. wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia. 4 mm.	Each	475.15
553	1534B	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia. wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia. not less than 5 mm in required colour and shade.	Each	506.05
554	1535	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia. 3 mm including strengthening with 2 mm dia. wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-Charge.	M2	569.90
555	1536A	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc. complete. 10- 14 mm diameter	Each	65.00
556	1536B	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc. complete. 15 – 18 mm diameter	Each	76.85

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ACCEPTING OFFICER

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
557	1536C	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants, loading, leading , conveyance and cleaning the debris etc. complete. 19 – 23 mm diameter	Each	88.70
558	1536D	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc. complete. 24 – 28 mm diameter	Each	100.50
559	1538	Attending to leak at roof slab and wall joint. The scope of work includes clearing the tiled terrace surfaces to be free of dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with CERAFIL 45/ TEC TILE 12/ Sika Grout/NACC Tile Grout/Dr. Fixit Crack-X and providing primer and top coat of CERAFLEX/TEC WAVE 3000/Sika Rain guard/NACC High Flex single component/Dr. Fixit New Coat highly flexible membrane coating including curing adequately .All as per manufacture's recommendation/ standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc. complete for In accessible areas One Primer and one top coat	M2	335.50
560	1539	Attending to leak at roof slab and wall joint. The scope of work includes clearing the tiled terrace surfaces to be free of dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with CERAFIL 45/ TEC TILE 12/ Sika Grout/NACC Tile Grout/Dr. Fixit Crack-X and providing primer and top coat of CERAFLEX/TEC WAVE 3000/Sika Rain guard/NACC High Flex single component/Dr. Fixit New Coat highly flexible membrane coating including curing adequately. All as per manufacture's recommendation / standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc. complete. for In accessible areas. One primer and two top coats	M2	518.30

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
561	1540	Providing two coats of CERALASTIC/TEC WAVE 2000/Sika rain guard/NACC roof coating /Dr. FIXIT PIDIFIN 2K water proofing membrane coating followed by one bond coat of CERA BOND SBR/TEC BOND SBR/Sika latex/NACC Latex / Dr. FIXIT PIDICRETE URP SBR LATEX over the membrane coating and providing cement plastering 6mm thick in CM 1:4 admixed with general purpose water proofing compound of respective products and curing adequately. All as per manufacturer's recommendation / standard specifications and instructions of Engineer-in-charge. The scope of work includes dismantling the existing damaged weathering course and tiles to expose to the RCC slab and finishing to match with the existing weathering course.. Rate quoted includes cost of all materials except cement which will be issued free of cost at BHEL stores, labour charges, conveyance, tools and all other incidental charges etc., complete. Replacing the damaged tiles and re-pointing where ever required which will be paid under separate item.-for-accessible areas.	M2	338.25
562	1541	Attending crack filling at parapet level with pressure grouting: The scope of work includes routing out the cracks with a mechanically operated groove cutter and sealing the groove with flexible sealant - CERA CRACK FILLER/TEC KRACK FILLER/Sika CRACK SEAL/NACC CRACK FILLER/Dr. FIXIT CRACK-X PASTE and allowing the sealant to set overnight, driving grouting nozzles at intervals of 1M and grouting neat cement slurry admixed with expansive grouting additive CERA EXPAN 250/TEC SWELL/Sika INTRA PLAST/NACC EXPAN/Dr. FIXIT PIDICRETE AM 250 and providing two coats of CERAFLEX/TEC WAVE 3000/Sika RAINGARD/NACC HIGH FLEX /Dr. FIXIT NEW COAT roof coating single component flexible membrane for a width of 15cms aligned to the centre of the crack. All as per manufacturers recommendations / standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc., complete, but excluding cost of cement which will be issued free of cost at BHEL stores (CEMENT CONSUMPTION=350 GRAMS/RM)	M2	151.25
563	1542	Attending Crack filling at parapet level without pressure grouting. The scope of work includes routing out the cracks with a mechanically operated groove cutter and sealing the groove with flexible sealant - CERA CRACK FILLER/TEC KRACK FILLER/Sika CRACK SEAL/NACC CRACK FILLER/Dr. FIXIT CRACK-X PASTE and providing two coats of CERAFLEX/TEC WAVE 3000/Sika RAIN GARD/NACC ROOF COATING/Dr. FIXIT NEW COAT highly flexible membrane for a width of 10cms aligned to the centre of the crack. All as per / manufacturers recommendations/ standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges ,etc. complete.	RM	112.75

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
564	1543	Drilling pockets and fixing PVC Nipples in position along weak concrete junctions and leakage points in walls/floor and pressure grouting CERA EXPAN 250 / TEC SWELL/Sika INTRA PLAST/NACC EXPAN / Dr. FIXIT PIDICRETE AM 250 expansive grouting additive admixed with cement slurry using hand operated grouting pump. The scope also includes plugging the grout hole with CERA PLUG/TEC STOP / Sika HYDRO PLUG / NACC PLUG / Dr. FIXIT INSTANT LEAK PLUG .All as per manufacturer's recommendations / standard specifications and instructions of Engineer- in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges except cement which will be issued free of cost at BHEL stores. (CEMENT CONSUMPTION=350 GRAMS/POINT) .	POINT	145.75
565	1544	Providing one coat of Antifungal coating - tec touch / Cera re-played/Sika Multi guard or Sika guard 67/NACC acrylic/Dr. FIXIT DAMPGAURD - protective and decorative coating system as per manufacturer's recommendations/ standard specifications and instructions of Engineer-in-charge. The scope of work includes surface preparation including cleaning the wall surfaces to be free of previous coatings, dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with putty. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc., complete.	M2	203.20
566	1545	Arresting leakage through RCC Construction joints The scope of work includes routing out the horizontal cracks along /construction joints to expose the RCC joint and applying CERA SEAL / TEC POLYSEAL G / Sika Crack Seal / NACC poly seal gun grade polysulphide sealant / Dr. FIXIT PU SEALANT. The scope also includes application of CERAFLEX / TEC WAVE 3000/Sika Rain Gard/NACC Roof Coating / Dr. FIXIT NEW COAT single component flexible membrane with intermediate layer of cloth over the exposed area after allowing the PS(polysulphide sealant) to cure for 72 hours. All as per manufacturers recommendations / standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc., complete.	M2	499.10

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
567	1546	Arresting leakage through Masonry construction joints. The scope of work includes routing out the vertical cracks along construction joints and providing a bond coat of CERA BOND SBR / TEC BOND SBR /Sika Latex Power/NACC latex/ Dr. FIXIT PIDICRETE URP SBR LATEX followed by filling the cracks with repair mortar admixed with CERA EXPAN 250 / TEC SWELL/Sika Intra Plast/NACC Expan / Dr. FIXIT PIDICRETE AM 250. The scope also includes placing of grouting nipples on the neatly finished surface at adequate spacing and grouting cement slurry admixed with CERA EXPAN 250 / TEC SWELL/Sika Intra Plast/NACC Expand/Dr. FIXIT PIDICRETE AM 250 using hand operated grouting pump. The treated surface shall then be finished with two coats of CERAFLEX / TEC WAVE 3000 / Sika Rain guard/NACC Roof Coating/ Dr. FIXIT NEW COAT . All as per manufacturers recommendations / standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and other incidental charges etc. complete but excluding cost of cement which will be issued free of cost at BHEL stores. (CEMENT CONSUMPTION=400 GRAMS/RM) .	RM	262.20
568	1547	Providing aluminum Sheet Flashing. The scope of work includes cutting a neat groove along the brick wall and fixing Aluminum sheet flashing of 1' to 1'6" as required including re-filling the grooves and sealing the joints with CERA SEAL / TEC POLYSEAL G /Sika Polysulphide/NACC poly seal gun grade polysulphide sealant/Dr. FIXIT PU SAEALANT. All as per Manufacturer's recommendations / standard specifications and instructions of Engineer-in-Charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and other incidental charges etc., complete.	RM	479.80

Additional Items : Labour charges for SR Items 2013-14 where materials will be supplied by BHEL

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
569	-	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 18/20 mm OD	RM	44.75
570	-	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 25 mm OD	RM	54.00

Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
571	-	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 32 mm OD	RM	54.65
572	-	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 40 mm OD	RM	76.90
573	-	Labour charges for fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacing, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete.(internal work - exposed on walls). PVC Pipes will be supplied by BHEL stores at free of Cost. PVC Pipe 50 mm OD	RM	92.40
574	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 18/20 mm OD	RM	7.25
575	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 25 mm OD	RM	9.25
576	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 32 mm OD	RM	9.50
577	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 40 mm OD	RM	13.20
578	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 50 mm OD	RM	15.25

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
579	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 63 mm OD	RM	20.05
580	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 75 mm OD	RM	27.45
581	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 90 mm OD	RM	33.90
582	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 110 mm OD	RM	37.55
583	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 140 mm OD	RM	43.50
584	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 160 mm OD	RM	50.15
585	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 180 mm OD	RM	56.45
586	-	Labour charges for laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC pipes & Specials will be supplied by BHEL at free of cost. PVC Pipe 200 mm OD	RM	62.15

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Sl. No.	SR No.	DESCRIPTION	Units	Rate (Rs.P)
587	-	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 15 to 25 mm nominal bore	Each	20.20
588	-	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 32 mm nominal bore	Each	22.85
589	-	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 40 mm nominal bore	Each	25.30
590	-	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 50 mm nominal bore	Each	27.70
591	-	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 65 mm nominal bore	Each	31.50
592	-	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 80 mm nominal bore	Each	35.25
593	-	Labour charges for fixing in position of brass wheel valve / gate valve (G.M) with C.I wheel etc. complete. 100 mm nominal bore	Each	22.00
594	-	Labour charges for fixing in position C.P brass bib cock / stop cock (Medium Duty) - 15 mm Nominal Bore	Each	15.05
595	-	Labour charges for fixing in position C.P brass bib cock / stop cock (Medium Duty) - 20 mm Nominal Bore	Each	17.75
596	-	Labour charges for fixing in position C.P brass bib cock / stop cock (Medium Duty) - 25 mm Nominal Bore	Each	12.10

Note: Mentioned rates excludes GST% and Quantity of work will be given in work order.

Total tender value = Rupees One Hundred and Twenty Five Lakhs only

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