

# **Bharat Heavy Electricals Limited**

**High Pressure Boiler Plant  
Tiruchirappalli – 620 014. India  
Civil Engineering Department (Township)**

## **TENDER DOCUMENT (PRICE BID)**

<b>Name of work</b>	:	Annual Maintenance contract for Masonry, RCC buildings including structural works, Tiling works, Fencing works and carrying out works related to function arrangements such as Stage, Shamiana etc., in BHEL Township-Trichy
<b>Tender Schedule No</b>	:	CT: TS: 008/ 20-21
<b>Estimate Value of Work</b>	:	<b>Rs. 75,00,000.00 + Applicable GST</b>
<b>Evaluation value of Work</b>	:	<b>Rs.37,50,000+Applicable GST</b>
<b>EMD</b>	:	<b>Rs. 75,000 (Rupees Seventy Five Thousand only)</b>
<b>Period of Contract</b>	:	<b>15 (Fifteen) Months</b>
<b>Date of Notification</b>	:	<b>17.10.2020</b>
<b>Last Date of Receipt of Tender</b>	:	<b>07.11.2020 @ 10:00 hrs.</b>
<b>Date of Tender Opening</b>	:	<b>07.11.2020 @ 10:00 hrs.</b>

**BHARAT HEAVY ELECTRICALS LIMITED**  
**TIRUCHIRAPALLI - 620 014**

**SCHEDULE - A**

Name of Work: Annual Maintenance contract for Masonry, RCC buildings including structural works, Tiling works, Fencing works and carrying out works related to function arrangements such as Stage, Shamiana etc., in BHEL Township-Trichy

I / We \_\_\_\_\_ have read the condition of tender attached hereto and agree to abide by such conditions. I/We offer to execute the works in CT: TS: 008 / 20 - 21 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 carry out all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirappalli - 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. 75,000.00** 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	<b>Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the BHEL estimate rate provided in Bill of Quantities appended below from Page 03</b>	
		In Figures	In Words
1.	<b>SR value shown from page number 03 onwards (Excluding GST) = 100%</b>		

**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.**

**CIVIL ENGINEERING DEPARTMENT - TOWNSHIP  
BHEL / TRICHY-620 014**

**BILL OF QUANTITIES**

**Name of work :** **Annual Maintenance contract for Water proofing treatment on roof terraces in buildings in BHEL Township – Trichy**

S R Item	DESCRIPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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	125.8	0
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	201.7	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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	0
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	0
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 bail-ing or pumping out water during excavation due to subsoil water, rain etc. All kinds of soil except rock	M3	138.4	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 bail-ing or pumping out water during excavation due to subsoil water, rain etc. Ordinary rock	M3	221.85	0
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 bail-ing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (requiring blasting)	M3	399.9	0
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 bail-ing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (blasting prohibited)	M3	451.8	0

<b>S R Item</b>	<b>DESCRPITION</b>	<b>Unit</b>	<b>RATE (Rs)</b>	<b>Cement Consumption kg/unit</b>
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 upto 50 metres and lift upto 1.5 metre, sectioning the sub-grade to proper level and grade. Disposed soil are to be leveled and neatly dressed. All kinds of soil except rock	M3	178.1	0
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 upto 50 metres and lift upto 1.5 metre, sectioning the sub-grade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Ordinary rock	M3	188.55	0
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 upto 50 metres and lift upto 1.5 metre, sectioning the sub-grade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Hard rock (requiring blasting)	M3	334.3	0
0103D	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 upto 50 metres and lift upto 1.5 metre, sectioning the sub-grade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Hard rock (blasting prohibited)	M3	400.9	0
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 upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed in All kinds of soil	M2	35.4	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 upto 50 m and lift upto 1.5 m.	M2	8.7	0
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	0
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	55.2	0
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	M2	60.1	0
0107A(i)	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. All kinds of soil except rock	M3	25.15	0
0107A(ii)	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. Ordinary rock	M3	40.35	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0107A(iii)	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. Hard rock (requiring blasting)	M3	72.7	0
0107A(iv)	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. Hard rock (blasting prohibited). 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 upto 50 metres and lift upto 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.	M3	82.15	0
0107A(v)	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. All kinds of soil except rock	M3	35.6	0

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
0107A(vi)	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. Ordinary rock	M3	37.7	0
0107A(vii)	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. Hard rock (requiring blasting)	M3	66.85	0
0107A(viii)	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. Hard rock (blasting prohibited)	M3	80.2	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0107A(ix)	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. 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 upto 50 m and lift upto 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	7.1	0
0107A(x)	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. 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 upto 50 m and lift upto 1.5 m in or under water and/ or liquid mud, including pumping out water as required.	M2	1.75	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0107B(i)	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	0
0107B(ii)	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	0
0107B(iii)	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. Hard rock (requiring blasting)	M3	90.9	0

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
0107B(iv)	<p>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. Hard rock (blasting prohibited). 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 upto 50 metres and lift upto 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.</p>	M3	102.7	0
0107B(v)	<p>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</p>	M3	44.55	0

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
0107B(vi)	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	47.15	0
0107B(vii)	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. Hard rock (requiring blasting)	M3	83.6	0
0107B(viii)	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. Hard rock (blasting prohibited).	M3	100.25	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0107B(ix)	<p>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. 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 upto 50 m and lift upto 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.</p>	M2	8.85	0
0107B(x)	<p>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. 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 upto 50 m and lift upto 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 upto the centre of gravity of the quantity executed in diffi-cult conditions. The depth shall be reckoned correct to 0.10 metre, 0.05 me-tre or more shall be taken as 0.10 metre and less than 0.05 metre ignored.</p>	M2	2.2	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0108A	Extra for every additional lift of 1.5 metre or part thereof in : All kinds of soil Excluding Rock.	M3	32.45	0
0108B	Extra for every additional lift of 1.5 metre or part thereof in : Ordinary or hard rock.	M3	58.2	0
0109	Extra for every additional lead of 10 metre or part thereof over the initial lead for all kinds of soil.	M3	32.45	0
0110	Supply and filling with river sand in foundation, plinth, under floor etc. includ-ing watering, ramming, consolidating and dressing complete.	M3	502.95	0
0111	Supply and spreading/filling with stone dust complying with standard specifi-cations.	M3	250.4	0
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 upto 50 m and lift up to 1.5 m etc. complete.	M3	78.9	0
0113	Labour charges for mixing the earth, red earth, sand, manure, coconut waste etc. thoroughly to the required proportion and carrying the same and filling it in the excavated pits/areas at various locations with all leads and lifts. Rate excludes cost of materials.	M3	85.9	0
0114	Ploughing the existing ground in all kinds of soil to a depth of 15 to 25 cm and watering the same.	M2	8.85	0
0115	Labour charges for breaking clods, consolidating, sectioning etc.	M3	2.9	0
0116	Forming turfing in slopes with initial watering, all as per instructions of Engi-neer-in-charge.	M2	16.15	0
0117A	Extra rate for consolidation of bunds etc. by means of the following, including watering. Hand roller	M3	9.65	0
0117B	Extra rate for consolidation of bunds etc. by means of the following, including watering. Power roller including hire charges.	M3	16.15	0
0118	Benching hard rock upto an average 10 cm depth	M2	315.7	0
0119A	Drilling holes in hard granite/RCC structure: 45 mm dia	RM	123.7	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0119B	Drilling holes in hard granite/RCC structure: 50 mm dia	RM	147.35	0
0119C	Drilling holes in hard granite/RCC structure: 75mm dia	RM	167.35	0
0120	Bailing or pumping out water from trenches, foundations etc., at all depths wherever necessary as per standard specifications.	Hour	65.05	0
0121	Clearing grass and removal of rubbish upto a distance of 50 metre.	M2	2.3	0
0122	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1 metre above ground level and removal of rubbish upto a distance of 50 metre.	M2	4.5	0
0123A	Felling trees of girth (measured at a height of 1 metre above ground level) in-cluding cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and dis-posal of unserviceable materials. Beyond 30 cm girth upto and including 60 cm girth.	Each	139.2	0
0123B	Felling trees of girth (measured at a height of 1 metre above ground level) in-cluding cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and dis-posal of unserviceable materials. Beyond 60 cm girth upto and including 120 cm girth.	Each	613.65	0
0123C	Felling trees of girth (measured at a height of 1 metre above ground level) in-cluding cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and dis-posal of unserviceable materials. Beyond 120 cm girth upto and including 240 cm girth.	Each	2831.15	0
0123D	Felling trees of girth (measured at a height of 1 metre above ground level) in-cluding cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and dis-posal of unserviceable materials. Above 240 cm girth.	Each	5682.55	0
0124	Supplying Chlorpyrifos / Lindane emulsifiable concentrate of 20 % (chemical emulsion) in sealed containers at site of work.	L	176.1	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0125	Labour charges for pre-constructional anti-termite treatment by diluting and in-jecting chemical emulsion which will be supplied by BHEL at free of cost and creating a continuous chemical barrier under and alround 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	0
0126	Diluting and injecting pre-constructional anti-termite treatment by chemical emulsion and creating a continuous chemical barrier under and alround 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 build-ing at ground floor only shall be measured for payment). Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per in-stuctions of Engineer in charge.	M2	477.25	0
0127A	Labour charges for post-constructional anti-termite treatment by diluting and in-jecting 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 & rodding etc. complete.	RM	11.35	0
0127B	Labour charges for post-constructional anti-termite treatment by diluting and in-jecting 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	17.4	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0127C	Labour charges for post-constructional anti-termite treatment by diluting and in-jecting 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 - Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 5 litre / 9 SQM)	M2	90.6	0
0127D	Labour charges for post-constructional anti-termite treatment by diluting and in-jecting 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 - Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	13.5	0
0127E	Labour charges for post-constructional anti-termite treatment by diluting and in-jecting 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 Chlorpyri-phos/Lindane (in oil or kerosene based solution) @ 0.50 litre per hole by drill-ing 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 - Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	123.8	0
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 stand-ard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instuctions 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 & rodding etc. complete.	RM	66.3	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 stand-ard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instuctions 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	0
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 stand-ard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instuctions 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	0
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 stand-ard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instuctions 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	0
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 stand-ard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instuctions 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	206.8	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0201A	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:1:2 with graded stone aggregate 20 mm nominal size. CEMENT CONSUMPTION - 610.00 K.G PER CUM	M3	2019.9	610
0201B	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering.1:1.5:3 with graded stone aggregate 20 mm nominal size. CEMENT CONSUMPTION - 400.00 K.G/CUM	M3	1972.65	400
0201C	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:2:4 with graded stone aggregate 20 mm nominal size. CEMENT CONSUMPTION - 320.00 K.G/CUM	M3	2043.75	320
0201D	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:2:4 with graded stone aggregate 40 mm nominal size. CEMENT CONSUMPTION - 320.00 K.G/CUM	M3	1866.15	320
0201E	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:3:6 with graded stone aggregate 40 mm nominal size. CEMENT CONSUMPTION - 220.00 K.G/CUM	M3	1913.7	220
0201F	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:4:8 with graded stone aggregate 40 mm nominal size. CEMENT CONSUMPTION - 170.00 K.G/CUM	M3	1908.5	170

<b>S R Item</b>	<b>DESCRPITION</b>	<b>Unit</b>	<b>RATE (Rs)</b>	<b>Cement Consumption kg/unit</b>
0201G	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:5:10 with graded stone aggregate 40 mm nominal size. CEMENT CONSUMPTION - 130.00 K.G/CUM	M3	1904.35	130
0201H	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:4:8 with graded stone aggregate 20 mm nominal size. CEMENT CONSUMPTION - 170.00 K.G/CUM	M3	2117.3	170
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 upto plinth level. CEMENT CONSUMPTION - 610.00 K.G/CUM	M3	2211.6	610
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 upto plinth level. CEMENT CONSUMPTION - 400.00 K.G/CUM	M3	2164.35	400
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 upto plinth level. CEMENT CONSUMPTION - 320.00 K.G/CUM	M3	2235.45	320
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.CEMENT CONSUMPTION - 610.00 K.G/CUM	M3	2822.35	610

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0202E	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of cen-tring, shuttering, finishing and reinforcement. 1:1.5:3 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level. CEMENT CONSUMPTION - 400.00 K.G/CUM	M3	2775.1	400
0202F	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of cen-tring, shuttering, finishing and reinforcement. 1:2:4 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level. CEMENT CONSUMPTION - 320.00 K.G/CUM	M3	2846.2	320
0203	Straightening, cutting, bending, placing in position of MS/CTD bars and bind-ing 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	7439.4	0
0204A	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.	M2	167.3	0
0204B	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.	M2	291.65	0
0204C	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Suspended floors, roofs, landings, balconies, access platform and sunshades.	M2	323.65	0
0204D	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Lintels, beams, plinth beams, girders, bressumers and cantilevers	M2	253.5	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0204E	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Columns, pillars, piers, abutments, posts and struts.	M2	371.7	0
0204F	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Arches, domes, vaults upto 6 m span.	M2	783.8	0
0204G	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Well steining	M2	465.5	0
0204H(i)	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Extra for shuttering : Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete in circular work.	M2	33.45	0
0204H(ii)	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Extra for shuttering : Lintels, beams, plinth beams, girders, bressumers and cantilevers in circular work.	M2	50.7	0
0204H(iii)	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Extra for shuttering : Columns, pillars, piers, abutments, posts and struts in circular work.	M2	74.35	0
0204I	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Pockets or holes in foundations for holding down bolts.	M2	679.25	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0205	Extra for additional height in centring, shuttering wherever required with ade-quate 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 there of. For suspended floors, roofs, landing, beams & balconies (Plan area to be measured)	M2	165.25	0
0206	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforcd cement concrete of specified grade for strucrural elements using 10 to 20 mm hard broken granite stone jelly, ex-cluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, re-tard 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 upto Floor V level. CEMENT CONSUMPTION - 383.00 K.G PER CUM	M3	2728.6	383
0207A	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforcd cement concrete of specified grade for strucrural elements using 10 to 20 mm hard broken granite stone jelly, ex-cluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, re-tard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-25 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level. CEMENT CONSUMPTION - 410.00 K.G PER CUM	M3	2737.05	410

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0207B	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, re-tard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-30 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level. CEMENT CONSUMPTION - 420.00 K.G PER CUM	M3	2740.15	420
0207C	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, re-tard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-35 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level. CEMENT CONSUMPTION - 428.00 K.G PER CUM	M3	2742.7	428
0208	Extra for laying plain / reinforced concrete in or under foul conditions.	M3	125.2	0
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 chickenmesh 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. CEMENT CONSUMPTION - 24.76 K.G PER SQM	M2	842.6	24.76
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 chickenmesh 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. CEMENT CONSUMPTION - 20.68 K.G PER SQM	M2	830.55	20.68

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
0210	Providing, hoisting and fixing upto 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 cup-boards, 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. CEMENT CONSUMPTION - 320.00 K.G PER CUM	M3	6332.65	320
0211	Providing, hoisting and fixing upto 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 & finishing with neat cement punning on exposed surfaces but excluding pointing. CEMENT CONSUMPTION - 320.00 K.G PER CUM	M3	5228.55	320
0212	Carrying from departmental stores / stack yard and fixing in position of 25 to 150 mm thick Plain / R C C 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	506.6	0
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 & fabrication charges. 50 mm thick. CEMENT CONSUMPTION - 12.80 K.G PER SQM	M2	538.75	12.8
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 & fabrication charges. 40 mm thick. CEMENT CONSUMPTION - 10.24 K.G PER SQM	M2	461.7	10.24
0214A	Providing and fixing RCC precast perforated lawn drain cover slabs of follow-ing 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 & fabrication charges. 75 mm thick. CEMENT CONSUMPTION - 19.84 K.G PER SQM	M2	264.95	19.84

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0214B	Providing and fixing RCC precast perforated lawn drain cover slabs of follow-ing 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 & fabrication charges. 50 mm thick. CEMENT CONSUMPTION - 12.80 K.G PER SQM	M2	161.6	12.8
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 in-cludes supply and fixing of holdfasts, moulding, scaffolding for fixing at speci-fied 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 wher-ever necessary and making good all damages to suit the existing work but excluding cost of fabrication charges for reinforcement steel. CEMENT CONSUMPTION - 34.73 K.G PER SQM	M2	772.8	34.73
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. CEMENT CONSUMPTION - 26.03 K.G PER SQM	M2	543.65	26.03

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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. CEMENT CONSUMPTION - 52.00 K.G PER SQM	M2	736.75	52
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 center-ing, shuttering etc. complete but excluding cost of reinforcement & fabrication charges. CEMENT CONSUMPTION - 320.00 K.G PER CUM	M3	4078.5	320
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 fabri-cation charges. CEMENT CONSUMPTION - 32.92 K.G PER SQM	M2	994.7	32.92
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 sqm for encasing of rolled steel sections in beams, columns and grillage excluding cost of hangers.	M2	355.85	0
0220	Providing and fixing in position of copper plate as per design for expansion joints.	KG	306.05	0
0221	Providing and filling in position of blown bitumen in expansion joints.	HCM3	5	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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.	HCM3	1.55	0
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.	HCM2	4.1	0
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	0
0226	Providing and placing in position PVC water stops serrated with central bulb, 225 mm wide & 8-11 mm thick for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pour-ing concrete etc. complete.	RM	462.05	0
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 CEMENT CONSUMPTION 102.30 K.G/CUM	M3	1775.55	102.3
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 CEMENT CONSUMPTION 82.50 K.G/CUM	M3	1773.45	82.5
0302	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with Cement mortar 1:6. CEMENT CONSUMPTION 75.00 K.G/CUM	M3	2070.35	75
0303	Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 metre.	M3	301.8	0
0304	Extra for random rubble and coursed rubble masonry with hard stone in superstructure above plinth level and upto floor five level.	M3	645.5	0
0305	Extra for laying stone work in or under foul position.	M3	125.2	0
0306	Labour charges for providing random rubble masonry in foundation & basement in the mixes specified including simultaneous flush pointing, all as per standard specifications. Rough stones & bond stones will be supplied by BHEL at free of cost, at site of work.	M3	544.8	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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	1287	0
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	884.4	0
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. Upto 4.50 m height from plinth level. CEMENT CONSUMPTION 23.77 K.G/CUM	M3	3111.15	23.77
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 CEMENT CONSUMPTION 127.50 K.G/CUM	M3	3725.3	127.5
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 CEMENT CONSUMPTION 95.00 K.G/CUM	M3	3721.9	95
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 CEMENT CONSUMPTION 77.50 K.G/CUM	M3	3720.1	77.5
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 CEMENT CONSUMPTION 62.50 K.G/CUM	M3	3718.5	62.5
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 CEMENT CONSUMPTION 112.20 K.G/CUM	M3	3899	112.2

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 CEMENT CONSUMPTION 83.60 K.G/CUM	M3	3896.05	83.6
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 CEMENT CONSUMPTION 68.20 K.G/CUM	M3	3894.45	68.2
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 CEMENT CONSUMPTION 55.00 K.G/CUM	M3	3893.05	55
0312	Extra for Brick work in superstructure above plinth upto floor three level in all shapes and sizes.	M3	271.25	0
0313	Extra for brick work with bricks curved on plan upto a mean radius not exceeding 6 metre.	M3	473.9	0
0314	Extra charges for providing half brick masonry, brick on edge walls, fins, balus-trade etc. over and above the brick work rates of 0310 & 0311.	M3	297.6	0
0315	Honey-comb brick work 10 / 11.40 cm thick with FPS bricks of class designation 50 in cement mortar 1:4. CEMENT CONSUMPTION 6.56 K.G/CUM	M2	314.15	6.56
0316	Extra for laying brick work in or under foul position.	M3	125.2	0
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	687.5	0
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 re-quired depth, making good all damages and finishing to match with the exist-ing 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	93.3	0
0319	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 re-quired depth, making good all damages, providing chickenmesh 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	133.7	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0320	Brick work with mechanized autoclaved fly ash lime bricks made up of fly ash, lime, gypsum and coarse sand / stone dust to size 230 mm x 110 mm x 70 mm or thereabouts confirming 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 CEMENT CONSUMPTION 77.50 K.G/CUM	M3	4320.7	77.5
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. CEMENT CONSUMPTION 95.00 K.G/CUM	M3	4160	95
0801A	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 12mm thick Cement Consumption - 7.35 K.G/SQM	M2	93.25	7.35
0801B	Plastering with cement mortar as per standard specifications. In cement mortar 1:4, 12mm thick Cement Consumption - 5.47 K.G/SQM	M2	93.05	5.47
0801C	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 12mm thick Cement Consumption - 4.46 K.G/SQM	M2	92.95	4.46
0801D	Plastering with cement mortar as per standard specifications. In cement mortar 1:6, 12mm thick Cement Consumption - 3.60 K.G/SQM	M2	92.85	3.6
0801E	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 15mm thick Cement Consumption - 8.77 K.G/SQM	M2	107.3	8.77
0801F	Plastering with cement mortar as per standard specifications. In Cement mortar 1:4, 15mm thick Cement Consumption - 6.54 K.G/SQM	M2	107.05	6.54
0801G	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 15mm thick Cement Consumption - 5.33 K.G/SQM	M2	106.9	5.33
0801H	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 15mm thick Cement Consumption - 4.30 K.G/SQM	M2	106.8	4.3

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0801I	Plastering with cement mortar as per standard specifications. In Cement mortar 1:3, 20mm thick Cement Consumption - 11.42 K.G/SQM	M2	125.2	11.42
0801J	Plastering with cement mortar as per standard specifications. In Cement Mortar 1:4, 20mm thick Cement Consumption - 8.51 K.G/SQM	M2	124.9	8.51
0801K	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 20mm thick Cement Consumption - 6.94 K.G/SQM	M2	124.7	6.94
0801L	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 20mm thick Cement Consumption - 5.60 K.G/SQM	M2	124.6	5.6
0802	Damp proof course with cement mortar 1:3, 12 mm thick mixed with an admix-ture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications. Cement Consumption - 7.35 K.G/SQM	M2	108.85	7.35
0803	Damp proof course with cement mortar 1:3, 20 mm thick mixed with an admix-ture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications. Cement Consumption - 11.42 K.G/SQM	M2	149.35	11.42
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 speci-fications. Cement Consumption - 7.35 K.G/SQM	M2	99.05	7.35
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 speci-fications. Cement Consumption - 11.42 K.G/SQM	M2	134.15	11.42
0806	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications. Cement Consumption - 3.67 K.G/SQM	M2	82.1	3.67
0807	Plain cement mortar bands of 12 mm thick in cement mortar 1:4 to the specified width as per standard specifications. Cement Consumption - 5.32 K.G/SQM	M2	228.85	5.32
0808	Stucco plastering 12 mm thick with cement mortar 1:3 (1 cement & 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) Cement Consumption - 7.30 K.G/SQM	M2	96.55	7.3

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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. Cement Consumption - 7.30 K.G/SQM	M2	128.15	7.3
0810	Finishing the plastered surfaces with a floating coat of cement (punning), all as per standard specifications. Cement Consumption - 2. 20 K.G/SQM	M2	21.7	2.2
0811	Flush/Ruled pointing on stone work with cement mortar 1:3 as per standard specifictions. Cement Consumption 1.17 K.G/SQM	M2	114.05	1.17
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. Cement Consumption 1.84 K.G/SQM	M2	62.9	1.84
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. Cement Consumption 2.35 K.G/SQM	M2	95.8	2.35
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 alround in cement mortar 1:3 neatly rounded including provid-ing 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 specifica-tions. Cement Consumption 13.20 K.G/SQM	M2	836.3	13.2
0501	Collection from BHEL stores and transporting the raw structural steel sec-tions to the contractor's site fabrication shop, fabrication of steel work includ-ing all materials going into the process of fabrication and forming an integral part of the steel work together with all shop welding including using low hy-drogen electrode wherever necessary, all as per drawings and standard speci-fications. Rate includes delivery of fabricated steel work at erection site ready for erection, including preparation and supply of drawing office despatch list for BHEL's approval, all charges for packing (wherever called for) handling, conveying, stacking and all other incidental charges both for raw materials and fabricated steel works. Rate excludes raw structural steel sections which will be supplied by BHEL at stores at free of cost.	MT	12371.75	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0502	Collection from BHEL stores and transporting the raw structural steel sec-tions to the contractor's site fabrication shop, fabrication of steel work includ-ing all materials going into the process of fabrication and forming an integral part of the steel work together with all shop welding including using low hy-drogen electrode wherever necessary, all as per drawings and standard specifications. Rate includes delivery of fabricated steel work at erection site ready for erection, including preparation and supply of drawing office des-patch list for BHEL's approval, all charges for packing (wherever called for) handling, conveying, stacking and all other incidental charges both for raw materials and fabricated steel works. Rate excludes raw structural steel sec-tions and all consumables which will be supplied by BHEL at stores at free of cost.	MT	9505.75	0
0503	Collection from BHEL stores and transporting ERW/seamless steel tubes with necessary plates to the contractor's site fabrication shop, fabrication of ERW/seamless steel tubes with necessary plates etc. instead of structural steel sections for columns, trusses, purlins, tie runners etc. (all tubular) in-cluding all materials going into the process of fabrication and forming an inte-gral part of the steel work together with all shop welding including using low hydrogen electrode wherever necessary, all as per drawings and standard specifications. Rate includes delivery of fabricated steel work at erection site ready for erection, including preparation and supply of drawing office des-patch list for BHEL's approval, all charges for packing (wherever called for) handling, conveying, stacking and all other incidental charges both for raw materials and fabricated steel works. Rate excludes ERW/seamless steel tubes, plates etc. which will be supplied by BHEL at stores at free of cost.	MT	13608.9	0
0504	Collection from BHEL stores and transporting ERW/seamless steel tubes with necessary plates to the contractor's site fabrication shop, fabrication of ERW/seamless steel tubes with necessary plates etc. instead of structural steel sections for columns, trusses, purlins, tie runners etc. (all tubular) in-cluding all materials going into the process of fabrication and forming an inte-gral part of the steel work together with all shop welding including using low hydrogen electrode wherever necessary, all as per drawings and standard specifications. Rate includes delivery of fabricated steel work at erection site ready for erection, including preparation and supply of drawing office des-patch list for BHEL's approval, all charges for packing (wherever called for) handling, conveying, stacking and all other incidental charges both for raw materials and fabricated steel works. Rate excludes ERW/seamless steel tubes, plates etc. and all consumables which will be supplied by BHEL at stores at free of cost.	MT	10456.3	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0505	Carrying from stacks at erection site to erection positions and erection of fabri-cated steel work including all handling, conveying, assembling, hoisting, erecting in position and site welding and or bolting, alignment of structures, all as per drawings and standard specifications. Rate includes bolts & nuts, hire for welding tools and plants, labour etc., but excluding cost of fabricated components. If required, power will be given free of cost by BHEL. Weight of fasteners will not be accounted for payment.	MT	6667.9	0
0506	Carrying from stacks at erection site to erection positions and erection of fab-ricated steel work including all handling, conveying, assembling, hoisting, erecting in position and site welding and or bolting, alignment of structures, all as per drawings and standard specifications. Rate includes hire for weld-ing tools and plants, labour etc., but excluding all consumables such as elec-trodes, bolts, nuts, washers etc. which will be supplied by BHEL at Stores at free of cost and cost of fabricated components. If required, power will be giv-en free of cost by BHEL. Weight of fasteners will not be accounted for pay-ment.	MT	6364.1	0
0507	Fabrication and fixing in position of M.S frames for cable trench cover slabs in required sizes using M.S angles, plates, flats etc., which will be supplied by BHEL at Stores at free of cost, all as per drawings and instructions of Engi-neer-in-charge. Rate includes conveyance of raw materials from BHEL stores to contractors fabrication shop, fabrication charges including cutting, welding, preparing and supplying DODL's for BHEL's approval, supply of fabricated frames at site of work, fixing in proper position etc., complete.	MT	7550.25	0
0508	Fabrication and fixing in position of M.S frames for cable trench cover slabs in required sizes using M.S angles, plates, flats etc., which will be supplied by BHEL at Stores at free of cost, all as per drawings and instructions of Engi-neer-in-charge. Rate includes conveyance of raw materials from BHEL stores to contractors fabrication shop, fabrication charges including cutting, welding, preparing and supplying DODL's for BHEL's approval, supply of fabricated frames at site of work, fixing in proper position etc., complete but excludes all consumables such as electrodes which will be supplied by BHEL at Stores at free of cost.	MT	6910.3	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0509	Conveying from BHEL stores to site of work cutting to size and fixing in position of 75 x 75 x 6 mm or other size M.S angles in required lengths for forming the rebates in cable trench (for fixing the cable trench cover slabs) including welding in position of dowel bars to the angles and embedding the angle iron frame in the flooring concrete in proper line and level, all as per drawings and instructions of Engineer-in-charge. Rate includes loading, unloading, handling, welding and other incidental charges, preparing and supplying of DODL's for approval etc. complete, but excluding cost of M.S angles and dowel bars which will be supplied by BHEL at Stores at free of cost.	MT	8041.55	0
0510	Same as 0509 but excluding all consumables which will be supplied by BHEL at Stores at free of cost. (Also excludes energy charges)	MT	7397.25	0
0511	Fabrication and fixing in position of M.S inserts out of M.S plates, flats, rounds, angles etc., including necessary lugs made of rounds or flats, sizing and cutting to required lengths, threading, bolting and welding as required and placing the same in position in both plain and reinforced cement concrete members, including adjusting the shuttering if necessary, tying and holding to correct level and line. Rate includes cost of all materials, labour etc., complete but excluding raw steel sections which will be supplied by BHEL at Stores at free of cost.	KG	28.2	0
0512	Fabrication and fixing in position of M.S inserts out of M.S plates, flats, rounds, angles etc., including necessary lugs made of rounds or flats, sizing and cutting to required lengths, threading, bolting and welding as required and placing the same in position in both plain and reinforced cement concrete members, including adjusting the shuttering if necessary, tying and holding to correct level and line. Rate includes cost of all materials, labour etc., complete but excluding raw steel sections and all consumables which will be supplied by BHEL at Stores at free of cost.	KG	26.8	0
0513	Fabrication of various sizes steel partitions (not exceeding 4.00 x 2.40 m) using M.S angles for outer frame work and flats for vertical and horizontal stiffeners etc. Bottom panels are to be welded with M.S sheets for a height of one metre (approx.) and top panels with BRC fabric (75 x 25 mm) All as per drawings and as directed by the Engineer-in-charge. Rate includes providing necessary holes for inter connections and also base plates for fixing on the floor, all labour, electrodes, conveyance of raw materials from stores to fabrication site, etc. complete, but excluding cost of steel sections and BRC fabrics which will be supplied by BHEL at Stores at free of cost.	M2	247.95	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0514	Fabrication of various sizes steel partitions (not exceeding 4.00 x 2.40 m) us-ing M.S angles for outer frame work and flats for vertical and horizontal stiff-eners etc. Bottom panels are to be welded with M.S sheets for a height of one metre (approx.) and top panels with BRC fabric (75 x 25 mm) All as per drawings and as directed by the Engineer-in-charge. Rate includes providing necessary holes for inter connections and also base plates for fixing on the floor, all labour, electrodes, conveyance of raw materials from stores to fabrication site, etc. complete, but excluding cost of steel sections, BRC fabrics and all consumables which will be supplied by BHEL at Stores at free of cost.	M2	216.65	0
0515	Erection of fabricated steel partitions including handling, leading, assembling, erecting in position, site bolting, revetting, site welding etc., wherever required including cost of drilling holes in concrete floor and grouting bolts for fixing the base plates of steel partitions wherever necessary, all as per instructions of Engineer in charge. Rate includes all labour, incidentals etc., complete.	SQM	131.6	0
0516	Erection of fabricated steel partitions including handling, leading, assembling, erecting in position, site bolting, revetting, site welding etc., wherever required including cost of drilling holes in concrete floor and grouting bolts for fixing the base plates of steel partitions wherever necessary, all as per instructions of Engineer in charge. Rate includes all labour, incidentals etc., complete but excluding all consumables which will be supplied by BHEL at Stores at free of cost.	M2	124.55	0
0517	Fabrication of S.S tubes / ERW tubes to the design specified for railing. Rate includes conveyance of raw materials and fabricated railings, fabrication charges, preparation of DODLs, incidentals etc., complete. Tubes and other steel materials required for the work will be supplied by BHEL at Stores at free of cost.	MT	12371.75	0
0518	Carrying from stacks to site of work and fixing in position in line, level and alignment of fabricated railings at places as directed by the Engineer-in-charge. Excavation for pits and concrete bed will be paid separately under relevant items	MT	4857.5	0
0519A	Providing holding down bolts of required sizes with nuts, washers etc. and fix-ing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, wash-ers, fabrication and machining charges, fixing, all labour etc. complete. In M.S rounds including washer plates.	KG	65.8	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0519B	Providing holding down bolts of required sizes with nuts, washers etc. and fix-ing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, wash-ers, fabrication and machining charges, fixing, all labour etc. complete. Bolts including nuts & washers etc.complete in all sizes & lengths.	KG	85.15	0
0520	Conveying all types & 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	0
0521	Providing and fixing in position of M.S rivets of required sizes at site of work.	KG	116.55	0
0522	Welding by gas plant or electric plant including transportation of plant to site of work, cost of consumables, labour charges etc. complete.	CM	2.65	0
0523	Tightening of loosened bolts & nuts of all connections of steel structures such as columns, truss girders, trusses, crane girders, bracings, purlins etc. of buildings at all heights. Rate includes drilling holes wherever required, providing/replacement of bolts and nuts, (excluding cost of bolts and nuts), labour etc. Payment will be made based on the corresponding floor area of the buildings.	M2	12.6	0
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.	EA	26.6	0
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 cut-ting 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.	EA	172.7	0
0526	Removing cobwebs from the structures of buildings at all heights including cleaning of roof walls, undersurface of A.C sheets etc, complete. Rate in-cludes providing working platforms, ladder, safety nets, labour etc, complete. Payment will be made based on the floor area of the buildings.	M2	5.2	0

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
0527	Supply and fixing rolling shutters of approved make, made of 80 x1.25 mm M.S laths with 1.25 mm thick top cover 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.	M2	1912.65	0
0528	Providing and fixing ball bearing for rolling shutters.	EACH	413.3	0
0529A	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 10.00 SQM and upto 16.80 SQM in area.	M2	630.25	0
0529B	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 16.80 SQM in area.	M2	663.25	0
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 load-ing, leading, unloading and fixing of roller shutter including side brackets, gear box, lubricating the bearings etc., complete and making it fit for opera-tion. Labour charges only.	M2	276.6	0
0531	Providing and fixing in position of collapsible steel shutters with vertical chan-nels 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	4344	0
0532	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sec-tions, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of ap-proved steel primer , but excluding the cost of other fittings, complete all as per approved design. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone ag-gregate 40 mm nominal size).	M2	1154.7	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0533	Fixing standard steel glazed doors, windows and ventilators in walls with 15 x 3 mm lugs 10 cm long embedded in cement concrete blocks 15 x10 x10 cm of 1:3:6 or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including fixing of glass panes with glazing clips and special metal-sash putty or metal beading with screws. (Only steel doors, windows and ventilators with lugs, glass panes cut to size and glazing clips or metal beading with screws shall be supplied by BHEL at Stores at free of cost)	M2	271.25	0
0534A	Supply and fixing of glass panes with putty, glazing clips etc. for steel doors, windows, ventilators etc. Rate includes removal of broken glasses and old putty. 3 mm pin headed glass panes.	M2	600.75	0
0534B	Supply and fixing of glass panes with putty, glazing clips etc. for steel doors, windows, ventilators etc. Rate includes removal of broken glasses and old putty. 4 mm plain glass panes.	M2	665.8	0
0535	Providing putty for glass panes. Rate includes removal of old putty, supply & applying new putty in a proper manner & required quantity at site of work, all as per instructions of Engineer in charge.	RM	19.3	0
0536	Providing and fixing in proper position of fan hook using 10 mm FSICHER SLM-N heavy duty ANCHOR fastener with clamp & bolts in the existing RCC roof slab. Rate includes cost of fan hook (fastener), drilling with power drilling machine to the required dia & depth in the RCC roof slab, inserting and fixing the fan hook in proper position, all labour and all other incidentals etc. com-plete.	EA	390.5	0
0537A	Providing and fixing oxidised M.S handle with necessary screws etc.complete. 100 mm size	EA	22.45	0
0537B	Providing and fixing oxidised M.S handle with necessary screws etc.complete. 125 mm size	EA	25.95	0
0538A	Providing polyester sun control film of approved brand (GARWARE or equiva-lent) and shade to glazed panels in doors / windows / ventilators / partitions etc.with proper adhesive, all after removing the existing damaged film if available etc. complete. All as per instructions of Engineer in charge. Rate in-cludes cost of all materials, scaffolding charges, labour, all other incidentals etc., complete. Non reflective Type - Regular grade	M2	420.15	0

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
0538B	Providing polyester sun control film of approved brand (GARWARE or equivalent) and shade to glazed panels in doors / windows / ventilators / partitions etc. with proper adhesive, all after removing the existing damaged film if available etc. complete. All as per instructions of Engineer in charge. Rate includes cost of all materials, scaffolding charges, labour, all other incidentals etc., complete. Non reflective Type - Premium Grade with Scratch Resisting Coating	M2	1011.95	0
0539	Supply of Mild Steel sections such as channels, angles, T sections, flats, sheets, square bars, rods, tubes etc. at site of work and fabrication of steel work for gates, Y angles, purlins, trusses, any other small structures etc., all as per required design & drawing and erecting/fixing the same in proper alignment/position, level including site welding and or bolting/rivetting with necessary accessories such as keelmulai, keelpattai, hinges, tower bolts, al-drops etc. complete. Rate also includes providing two coats of synthetic enamel paint over one coat of red oxide primer. Payment will be made for the entire finished item of work.	MT	72332.55	0
0540	Providing and fixing factory made ISI marked steel Paneled doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer , but excluding the cost of other fittings, complete all as per approved design., and providing and fixing 18 gauge MS sheets for panes, handles, peg stays, friction throw hinges etc., complete including a priming coat of approved steel primer. Rate includes dismantling the masonry and making good all damages etc., complete.	M2	2139.95	0
0543	Supply, drilling and driving 10/12 mm dia anchor fasteners of length not exceeding 125 mm at 500 mm both sides of crane rail having tensile & shear capacity of minimum 1.50 MT into the RCC crane girder as indicated in the drawing to secure cover plate rigidly with the crane girder. Rate includes cost of fasteners, labour for drilling holes, etc., complete, all as per the instructions of Engineer-in-charge. Rate also includes provision for wastage of fasteners or repeat work in driving of fasteners due to infringement of reinforcement if any and also filling up the unwanted holes drilled on concrete girder due to repeat work with suitable high strength non-shrink cement.	SET	186.9	0

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
0546	<p>Providing fibre glass reinforcement with UV resistant polyurethane compound lining, to a minimum thickness of 3 mm on newly fabricated M.S gutters at floor level and jointing and filling the gap finishing etc., after erection at a height ranging from 12-24m from FFL, and making the gutters leak proof as per instructions of Engineer-in-charge. The work consists of thoroughly clean-ing the surface of the gutters and applying an undercoat of resin over which the alternate layers(min. three layers) of fibre strand &amp; resin to the required thickness before applying polyurethane compound coating at top with one coat of Gel coat with surface mat and polish to provide even surface, prepara-tion of surface with fibre reinforced plastic with 50 microns thick polyurethane lining, testing, etc., complete all as per instruction of Engineer-in charge. Rate quoted shall also include cost of labour, material with all taxes, scaffolding charges, if any and all other incidental charges etc., complete.</p>	M2	956.4	0
0547	<p>Providing fibre glass reinforcement with UV resistant polyurethane compound lining, to a minimum thickness of 3 mm on M.S gutters of factory buildings at a height ranging from 12-24m from FFL, and making the gutters leak proof as per instructions of Engineer-in-charge. The work consists of removing the adjoining North light Glazing, Roofing Sheets and existing paint in the gutter completely and thoroughly cleaning the surface including the damaged por-tion of the gutters and applying an undercoat of resin over which the alternate layers(min. three layers) of fibre strand &amp; resin to the required thickness be-fore applying polyurethane compound coating at top with one coat of Gel coat with surface mat and polish to provide even surface, preparation of surface with fibre reinforced plastic with 50 microns thick polyurethane lining, testing, refixing the removed north light glazing and Roofing sheets and also filling with fibre reinforcement prior to lining in areas badly worn out both in the bot-tom as well as sides of gutters etc., complete all as per instructions of Engi-neer- in -charge. Rate quoted shall also include cost of labour, material with all taxes, scaffolding charges, if any and all other incidental charges etc., complete ( The Contractor is required to take all safety precautions during working and obtain work permit from the concerned departments. Working hour is restricted as it depends on shutdown by production department that may not be more than 4 hours at a stretch and only intermittent).</p>	M2	1259.2	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0548	Supplying and laying rubberized and coloured (for 5mm thick layer) inter lock-ing 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 instructions of Engineer-in-charge. The rate in-cluded cost of material, transportation, loading, unloading at site, labour for spreading and laying of paver block etc., complete over the sand bed of re-quired thickness which will be paid under separate item.	M2	894.4	0
0551A	Renewing wrought iron or M.S wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erec-tion etc.complete. Wheel 50 mm dia and below	Each	113.65	0
0551B	Renewing wrought iron or M.S wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erec-tion etc.complete. Wheel above 50 mm dia	Each	171.6	0
701	Carrying , hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accesso-ries such as ridge pieces, barge boards, North light curves, end curves, etc., for roofing at all heights with necessary xylon coated self tapping / self drill-ing screws with EPDM washers at every ribs etc., complete. All as per draw-ings, manufacturers specifications and instructions of Engineer in-charge .Rate includes cost of self tapping/ self drilling screws with EPDM washers etc., and labour charges for fixing, hire charges for tools and plants like drill-ing machines, cost of providing life line and other provisions for safety, scaf-folding and all other incidental charges etc., complete but excluding cost of Aluminium zinc alloy coated high tensile steel sheets and its accessories such as ridge pieces, barge boards, curves, etc., which will be supplied by BHEL at Stores at free of cost. The payment will be made for the actual laid area only.	M2	88.6	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
702	Carrying , hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, etc., for side sheeting at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every valleys, etc., complete .All as per drawings, manu-facturers specifications and instructions of Engineer-in-charge ..Rate includes cost of self tapping/ self drilling screws with EPDM washers etc., and labour charges for fixing, hire charges for tools and plants like drill-ing machines, cost of providing life line and other provisions for safety, scaf-folding and all other incidental charges etc., complete but excluding cost of Aluminium zinc alloy coated high tensile steel sheets and its accessories such as ridge pieces, barge boards, curves, etc., which will be supplied by BHEL at Stores at free of cost. The payment will be made for the actual laid area only.	M2	114.35	0
703	Supplying at site of work , hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, North light curves, end curves, etc., as per technical specifications given in note below for roofing at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every ribs etc., complete. All as per drawings, manufacturers specifications and instructions of Engineer-in-charge .Rate in-cludes cost of all materials like colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, etc., wherever required self tapping / self drilling screws with EPDM washers at every ribs etc., and labour charges for fixing, hire charges for tools and plants like drilling machines, providing lifeline and other provisions for safety, and all other incidental charges etc., complete. The payment will be made for the actual laid area only. Note: (1)The Aluminium zinc alloy coated high tensile steel sheets and spe-cials shall be 0.47 to 0.50mm thick (TCT) (Aluminium around 55%, Zinc around 43%) alloy coated high tensile steel (Yield strength 550 MPA) colour coated rib profile sheets as per ASTM A792M, coating standard as per AS 1397-1933 Conforming to AZM 150 (Min Coating mass of 150 gsm) having cover width of 1000 plus or minus 10mm and over all width of 1060mm of any length to suit site conditions 2) About 90% area of the Aluminium zinc alloy coated high tensile steel sheets shall be colour coated with Light Blue RAL 5012 and 10% of the cov-ered area is of with off white. All ridge pieces and barge boards are of white. (3) The Aluminium zinc alloy coated high tensile steel sheets shall be Pre-	M2	559.8	0

	Primed with a Primer of 5µm and finished with a final paint coat of 17-20 µm on top surface. A single backing coat of 7-10µm should be applied on reverse side				
704	<p>Supplying at site of work , hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, etc., as per technical specifications given in note below for side sheeting at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every valleys, etc., complete .All as per drawings, manufacturers specifications and instructions of Engineer-in-charge .Rate includes cost of all materials like colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, self tapping / self drilling screws with EPDM washers at every valleys, etc., and labour charges for fixing, hire charges for tools and plants like drilling machines, providing lifeline and other provisions for safety, and all other inci-dental charges etc., complete. The payment will be made for the actual laid area only.</p> <p>Note: (1)The Aluminium zinc alloy coated high tensile steel sheets and spe-cials shall be 0.47 to 0.50mm thick (TCT) (Aluminium around 55%, Zinc around 43%) alloy coated high tensile steel (Yield strength 550 MPA) colour coated rib profile sheets as per ASTM A792M, coating standard as per AS 1397-1933 Conforming to AZM 150 (Min Coating mass of 150 gsm) having cover width of 1000 plus or minus 10mm and over all width of 1060mm of any length to suit site conditions</p> <p>(2) About 90% area of the Aluminium zinc alloy coated high tensile steel sheets shall be colour coated with Light Blue RAL 5012 and 10% of the cov-ered area is of with off white. All ridge pieces and barge boards are of white.</p> <p>(3) The Aluminium zinc alloy coated high tensile steel sheets shall be Pre-Primed with a Primer of 5µm and finished with a final paint coat of 17-20 µm on top surface. A single backing coat of 7-10µm should be applied on reverse side</p>	SQM 585.60	M2	585.6	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
705	Supplying at site of work, hoisting and fixing in position of 2mm thick embossed clear poly carbonate roof light sheets in specified locations and at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every ribs, etc., complete to match the profile of Aluminium zinc alloy coated high tensile steel roof sheets, as per instructions of Engineer in- charge. The rate includes cost of poly carbonate sheets ,self tapping / self drilling screws with EPDM washer, at every ribs, and labour charges, all scaf-folding charges, tools and plants and all other incidental charges etc., complete	M2	1540.9	0
706	Supplying roof extractors ( Turbo Air Ventilators ) of dia 600mm or thereabouts, fixing in position on AC / Aluminium zinc alloy coated high tensile steel sheet roofs at all heights with necessary screws,, bolts etc., and finishing to match with existing roof. Rate to include cost of all labour charges for fixing the roof extractors with necessary cutting of sheets to the required size ,drilling to suit the screws/ bolts, and finishing to match the existing profile in-cluding cost of roof extractors / ventilators. All as per manufacturers specifi-cations and as directed by the Engineer in charge.	EACH	8800	0
0707A	Supply and fixing corrugated fibre glass reinforced polyester translucent roof light sheets of all colours including white of following thickness to match with the existing A.C. sheet roofing including cost of G.I. bolts, nuts, washers and bitumen washers etc., complete. Payment will be based on the laid area. FRP Sheet 1 mm thick	M2	474.6	0
0707B	Supply and fixing corrugated fibre glass reinforced polyester translucent roof light sheets of all colours including white of following thickness to match with the existing A.C. sheet roofing including cost of G.I. bolts, nuts, washers and bitumen washers etc., complete. Payment will be based on the laid area. FRP Sheet 2 mm thick	M2	791.8	0
0708	Supply and fixing in position of galvanised iron plain sheets of 1.60 mm thick for flashing using G.I bolts, nuts, limpet washers etc. complete bent to shape and fixed in walls with cement mortar 1:3, all as per drawings and specifica-tions.	M2	824.75	0
0709	Conveying G.I sheets from BHEL stores to site of work, bent to shape and fixing in proper position for flashing fixed with G.I bolts, nuts, limpet washers etc., complete and fixed in walls with cement mortar 1 : 3, all as per drawings and specifications. G.I sheet alone will be supplied by BHEL at Stores at free of cost.	M2	445.05	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0710	Supply and fixing in position of 6 mm thick wired glass in roof north light glaz-ing including straightening the aluminium astrangle as required. Rate in-cludes cost of glass, labour etc. complete.	M2	988.7	0
0711	Conveying from BHEL stores to site of work 6 mm thick wired glass and fix-ing in position for roof north light glazing including straightening the alumini-um astrangle as required. Rate includes labour, conveyance and other inci-dentials, removing the broken glasses from its position etc.complete.	M2	102.25	0
0723	Conveying from BHEL stores to site of work, hoisting and fixing in position of 4 mm / 6 mm thick multi walled clear ( UV coated ) polycarbonate sheet for north light glazing runner ( inclined & vertical ) as per drawing including provi-sion of suitable aluminium frames as required. The scope of work includes supply of aluminium frames ( top & bottom) in required profiles fitted with EPDM rubber gaskets and fixing in the glazing runner using SDST screws of approved make and polycarbonate sheets are suitably placed between the aluminium frames before driving the top frame screws all as per Drg.no and as per the instructions of Engineer in Charge. The top and bottom portion of polycarbonate sheets shall be closed with aluminium U channels to prevent dust and insects. Rate shall include cost of aluminium frames, U channels, EPDM rubber gaskets, SDST screws required labour, tools & plants, etc., ex-cept polycarbonate sheets which will be supplied by BHEL at free of cost	M2	1179.5	0
0724	To collect and cleaning of all the damaged north light glazing materials (poly-carbonate sheets) at roof top for all heights and removing/repairing the north light glazing bars (aluminium beading) wherever required in line, level and alignment as per the instructions of Engineer in charge. The aluminium bead-ings and polycarbonate sheets shall be re fixed using 2 nos of 50mm X 6mm MS Hexagonal bolts, nuts & washersat top horizontal 8 nos of 35mm X 12mm Self drilling fasteners with EPDM washers at both the vertical sides and 2 nos of 50mm X 12mm self drilling screws with EPDM washers at bot-tom horizontal in each panel. The rate shall include cost of all labour charges, incidental charges for removing repairing and cost of all required fasteners for re fixing work but excludes cost of polycarbonate sheets and aluminium beading which will be supplied at free of cost. Payment will be made only for the actual area of repair work executed.	M2	116	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0725	Supplying at site of work, hoisting and fixing in position of 4 / 6mm thick multi-walled clear (UV coated) Polycarbonate sheet for north light glazing / glazing in monitor type roof to suit the rows of glazing runner (inclined and vertical) as per drawing including provision of suitable aluminium frames as required. The scope of work includes supply of polycarbonate sheets,aluminium frames (top & bottom) in required profile fitted with EPDM rubber gaskets and fixing in the glazing runner using SDST screws of approved make and the polycarbonate sheets are suitably placed between the aluminium frames be-fore driving the top frame screws all as per standard specification , instruc-tions of Engineer-in-charge. The top and bottom portion of polycarbonate sheets shall be closed with aluminium U channels to prevent dust and insects. Rate shall include cost of polycarbonate sheets, aluminium frames, U chan-nels, EPDM rubber gaskets, SDST screws, required labour, tools and plants etc.,complete.	M2	1800	0
0829A	Painting with aluminium paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. Two coats.	M2	61.45	0
0829B	Painting with aluminium paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. One coat	M2	39.15	0
0833A	Painting one priming coat with approved primer on surfaces including prepar-ing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign mat-ters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications. Zinc Chromate primer	M2	28.35	0
0833B	Painting one priming coat with approved primer on surfaces including prepar-ing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign mat-ters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications. Red oxide primer	M2	20.4	0
0834A	Painting one priming coat with approved primer over structural steel works in roof structures, columns etc., including preparing the surfaces by thorough-ly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifi-cations. Zinc Chromate primer	MT	955.35	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0834B	Painting one priming coat with approved primer over structural steel works in roof structures, columns etc., including preparing the surfaces by thorough-ly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifi-cations. Red oxide primer	MT	562.35	0
0835A	Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with synthetic enamel paint of approved brand and shade, brushing to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, Scaffolding charges etc., complete. All as per standard specifications. Two coats	MT	1580.5	0
0835B	Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with synthetic enamel paint of approved brand and shade, brushing to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, Scaffolding charges etc., complete. All as per standard specifications. One coat	MT	937.2	0
0836A	Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with aluminium paint of approved brand, brushing to give an even shade including cleaning the surfaces of all dirt, dust and other foreign mat-ters, scaffolding charges etc.complete. All as per standard specifications. Two coats	M.T	1461.85	0
0836B	Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with aluminium paint of approved brand, brushing to give an even shade including cleaning the surfaces of all dirt, dust and other foreign mat-ters, scaffolding charges etc.complete. All as per standard specifications. One coat	M.T	859.35	0
0842A	Painting with Epoxy paint (two or more coats) at all locations, prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surfaces etc.complete. On steel work	M2	95.15	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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. Cement consumption - 1020.00 K.G/CUM	M3	16000.65	1020
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 Pidigroout 10M or Flogroout 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	53487.4	0
1531	Cleaning & removing all the unwanted things from the rain water gutters available at an elevation of 12 to 20 m from FFL and making the gutter free from all accumulations, all as per instructions of Engineer-in-charge. Scope includes thorough cleaning off all dirt, dust, silt, leaves, other foreign matters etc. complete from the gutters using wire brush without damaging to the existing treatment given in the gutters, collecting the wastes in bags, lowering and conveying the same to the floor & dumping in the low lying areas. Rate includes all labour, tools, other incidentals etc. complete. Since the work is to be carried out at elevated levels/DSL EOT crane areas, the contractor is required to take all safety precautions during working and obtain work permit from the concerned departments. Working hour is restricted as it depends on shut down by the Production department that may not be more than 4 hour at a stretch and only intermittent.	M2	11.3	0
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 near by 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	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Stone rubble masonry in cement mortar	M3	632.7	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Plain Cement Concrete.	M3	387.15	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. RCC works including stacking of steel bars by manual/mechanical means.	M3	916.95	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. RCC or PCC (Using jack hammer only for pockets )	M3	1599.85	0
1001A23	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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. G.I / Aluminium sheets / Aluminium Zinc alloy coated sheets from roofs and side cladding including ridges, valleys, gutters etc.	M2	49.3	0
1001A24	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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Steel structures / steel works in built up sections including bolts, nuts, cutting rivets, welding, dismembering, preparation of DODL etc.	MT	1549	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Bituminous road.	M3	376.2	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. W.B.M /W.M.M road.	M3	233.2	0
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	0
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 upto 2 Km	M3	121.65	0
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 upto 3 Km	M3	130.25	0
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	1053.7	9.42

	Cement consumption - 9.42 K.G/SQM			
0612C	<p>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.</p> <p>For First Quality Design Ceramic tile of Size 305mm X 305mm X 6mm of all Colours Cement consumption - 9.42 K.G/SQM</p>	M2	1215.4	9.42
0612D	<p>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.</p> <p>For First Quality Design Ceramic tile of Size 200mm X 200mm X 6mm of all Colours</p> <p>Cement consumption - 9.42 K.G/SQM</p>	M2	1299.9	9.42
0613	<p>Providing and laying minimum 5 mm thick ceramic glazed floor tiles 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 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. Cement consumption - 12.42 K.G/SQM</p>	M2	672.55	12.42
0614	<p>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. Cement consumption - 12.42 K.G/SQM</p>	M2	672.55	12.42

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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. Cement consumption - 12.42 K.G/SQM	M2	678.65	12.42
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. Cement consumption - 12.42 K.G/SQM	M2	745.8	12.42
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	367.6	0
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 Cement consumption - 14.91 K.G/SQM	M2	1151.4	14.91
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 Cement consumption - 14.91 K.G/SQM	M2	851.95	14.91

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0618D	<p>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.</p> <p>Shahabad slabs 20 to 25 mm thick single side polished - Tandur Green Cement consumption - 14.91 K.G/SQM</p>	M2	838.35	14.91
0618E	<p>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.</p> <p>Marble slabs 16 to 18 mm thick, polished - Rajnagar plain white Cement consumption - 13.51 K.G/SQM</p>	M2	1219.9	13.51
0618F	<p>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.</p> <p>Marble slabs 16 to 18 mm thick, polished - Green (Udaipur) colour Cement consumption - 13.51 K.G/SQM</p>	M2	1333.75	13.51
0618G	<p>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.</p> <p>Marble slabs 16 to 18 mm thick, polished - Pink colour Cement consumption - 13.51 K.G/SQM</p>	M2	1276.85	13.51

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 Cement consumption - 13.51 K.G/SQM	M2	1440.95	13.51
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 Cement consumption - 13.51 K.G/SQM	M2	2298.45	13.51
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 Cement consumption - 13.51 K.G/SQM	M2	2026.2	13.51
0618L	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 Cement consumption - 13.51 K.G/SQM	SQM	1958.15	13.51

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 Cement consumption - 13.51 K.G/SQM	M2	1958.15	13.51
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 Cement consumption - 13.51 K.G/SQM	M2	2230.4	13.51
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 - Laga red Colour Cement consumption - 13.51 K.G/SQM	M2	3659.6	13.51
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 Cement consumption - 13.51 K.G/SQM	M2	1754	13.51

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0618S	<p>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.</p> <p>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)</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	495.5	12.42
0619A	<p>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)</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	800.95	12.42
0619B	<p>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.</p> <p>Granite tiles (polished), 8 to 10 mm thick (approx.) - P White SQM</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	873.75	12.42
0619C	<p>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.</p> <p>Granite tiles (polished), 8 to 10 mm thick (approx.) - Gray (Steel) Colour</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	837.35	12.42

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0619E	<p>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.</p> <p>Granite tiles (polished), 8 to 10 mm thick (approx.) - Green Colour</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	970.8	12.42
0619F	<p>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.</p> <p>Granite tiles (polished), 8 to 10 mm thick (approx.) - Sweet Green Colour</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	1261.95	12.42
0619G	<p>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.</p> <p>Granite tiles (polished), 8 to 10 mm thick (approx.) - Black (Galaxy) Colour.</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	970.8	12.42
0619H	<p>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.</p> <p>Granite tiles (polished), 8 to 10 mm thick (approx.) - Laga Red Colour</p> <p>Cement consumption - 12.42 K.G/SQM</p>	M2	1541	12.42

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 Cement consumption - 12.42 K.G/SQM	M2	837.35	12.42
0622	Mirror polishing on marble work/granite work/stone work wherever required to give high gloss finish etc.complete.	M2	162.2	0
0623	Extra for prefinished nosing to treads of steps of marble stones.	RM	219	0
0624	Extra for prefinished nosing in treads of steps of kota stones.	RM	70.9	0
0625A	Supply and fixing homogeneous PVC sheets / tiles of approved brand, pattern, colour, shade & 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	0
0625B	Supply and fixing homogeneous PVC sheets / tiles of approved brand, pattern, colour, shade & 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	618.4	0
0627	Labour charges for edge preparation (NOZING) and polishing of the laid gran-ite slab on the working platform, table etc. , The rate includes charges for re-quired grinding machine, labour etc., complete. All as per the instructions of Engineer-in-charge	RM	181.95	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Tile work in floors and roofs laid in cement mortar.	M2	27.7	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0602	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 including mixed well with red oxide powder of approved quality of weight equal to one tenth of the weight of cement used. and finishing the top surface smooth, rounding of corners, curing etc., complete, all as per standard specifications. (Ellis pattern I sort). Cement Consumption -11.70 K.G/SQM	M2	383.75	11.7
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) Consumption of cement -14.60 K.G/SQM	M2	235.1	14.6
0604	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 including mixed well with red oxide powder of approved quality of weight equal to one tenth of the weight of cement used. , finishing the surfaces smooth, rounding of corners, curing, providing borders etc., complete, all as per standard specifications. (Ellis pattern flooring). Consumption of cement -14.60 K.G/SQM	M2	476	14.6
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 Consumption of cement - 7.35 K.G/SQM	M2	161.45	7.35
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	0
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. Cement consumption - 320.00 K.G/CUM	M3	2119.7	320

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Old plastering / skirting raking out joints / chipping the concrete and roughening the surface.	M2	14.15	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Ellis pattern finish / Insitu mosaic.	M2	27.95	0
1511A	Conveyance of debris generated by dismantling and other modification works by various departments, factory wastes discarded cotton waste, slag, cut tree branches, dried leaves, abandoned broken glass, water closets, urinals, flush tanks, broken furniture, broken refractory bricks, AC materials, hedge cuttings and all other debris and waste materials from various places of facto-ry premises where they are stacked / accumulated and transporting the same by contractor's lorry and disposing off at the specified places, all as per the instructions of Engineer-in-charge. Rate includes labour for collection of the said debris from various places, loading, leading, unloading, spreading, level-ing etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety pre-cautions. Payment will be made on trip basis with a lorry load of minimum 300 cft./Trip. 0-1 K.M	Each	774.75	0
1511B	Conveyance of debris generated by dismantling and other modification works by various departments, factory wastes discarded cotton waste, slag, cut tree branches, dried leaves, abandoned broken glass, water closets, urinals, flush tanks, broken furniture, broken refractory bricks, AC materials, hedge cuttings and all other debris and waste materials from various places of facto-ry premises where they are stacked / accumulated and transporting the same by contractor's lorry and disposing off at the specified places, all as per the instructions of Engineer-in-charge. Rate includes labour for collection of the said debris from various places, loading, leading, unloading, spreading, level-ing etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety pre-cautions. Payment will be made on trip basis with a lorry load of minimum 300 cft./Trip. 1-2 K.M	Each	826.4	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
1511C	Conveyance of debris generated by dismantling and other modification works by various departments, factory wastes discarded cotton waste, slag, cut tree branches, dried leaves, abandoned broken glass, water closets, urinals, flush tanks, broken furniture, broken refractory bricks, AC materials, hedge cuttings and all other debris and waste materials from various places of facto-ry premises where they are stacked / accumulated and transporting the same by contractor's lorry and disposing off at the specified places, all as per the instructions of Engineer-in-charge. Rate includes labour for collection of the said debris from various places, loading, leading, unloading, spreading, level-ing etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety pre-cautions. Payment will be made on trip basis with a lorry load of minimum 300 cft./Trip. 2-3 K.M	Each	878.1	0
0129	Hire charges for engaging earth moving machinery (Hydraulic Excavator) to at-tend to channeling works at river bed, pipe line burst works, cleaning the are-as 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.	Hour	1100	0
1532	Removing beehive of any size carefully in all levels at stage beams, columns, slabs, ladders etc., in the overhead tank or other buildings/structures etc. While removing beehive, the contractor should follow all safety rules & regu-lations, all as per instructions of Engineer-in-charge.	EA	330	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Precast concrete or stone slabs in walls, partition walls etc. Thickness upto 40 mm	M2	78	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Precast concrete or stone slabs in walls, partition walls etc. Thickness above 40 mm upto 75 mm	M2	116.8	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. RCC louvers / RCC jally	M2	152.85	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Brick jelly lime concrete	M3	219.15	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. IWC with 'P' trap & foot rests	SET	240.2	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. EWC (excluding flushing cistern) / Urinal (earthenware) of any size including foot rests / Wash basin with connected fittings / RCC precast sink or other ready made sinks with connected fittings/ Nahani trap.	EA	144.1	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Flushing cistern of any size	EA	272.45	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
1001A22	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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. A.C sheets from roofs and side cladding including ridges, valleys, gutters etc.	M2	22.9	0
1001A25	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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Steel partitions including bolts, nuts, cutting rivets, welding etc. and dismembering	M2	68	0
1001A27	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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. False ceiling / partitions / fixed glazing, all in A.C sheet or hard board or aluminium or gypsum or other materials including connected frame works .	M2	17.5	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Rough stone dry packing for apron, revetments etc.	M3	219.6	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. R.C.C fencing post including all earthwork, dismantling base concrete etc.	EA	87.8	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Barbed wire / flexible wire rope in fencing.	KG	9.45	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. R.C.C pipes upto 450 mm dia	RM	183.55	0
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 near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Kerb stone	RM	17.85	0
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.	EA	31.35	0
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	0
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.	M2	1.45	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
1533	Carrying from BHEL stores to site of work and fixing GI chainlink 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, wash-ers etc., complete. Payment will be made based on the laid area of chainlink mesh only. Rate includes cost of labour, tools & plants and all other inciden-tals etc., complete but excludes cost of chain link mesh, MS flats, bots, nuts and washers which will be supplied by BHEL at stores at free of cost. Fabri-cation charges for MS flats including drilling holes etc. will be paid under sep-aratate item	M2	16.5	0
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.	EA	475.15	0
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.	EA	506.35	0
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 di-rection of Engineer-in-Charge.	M2	569.9	0
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 ex-cludes cost of cement which will be supplied by BHEL at stores at free of cost. 150 mm dia Cement Consumption - 0.60 KG/ R.M	RM	333.95	0.6
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 ex-cludes cost of cement which will be supplied by BHEL at stores at free of cost. 250 mm dia Cement Consumption - 0.90 KG/ R.M	RM	443.2	0.9

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 Cement Consumption - 1.10 KG/ R.M	RM	486.2	1.1
0922	Labour charges for spreading the patchmat material for road patch work. Rate includes preparation of surface, brushing, cleaning, laying patchmat, compacting etc. complete. Patchmat will be supplied by BHEL at stores at free of cost.	M2	42	0
1516A	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation. (Payment will be made for each operation) 40' X 40'	EA	1597.5	0
1516B	Labour charges for providing Shamiana of following sizes and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation. (Payment will be made for each operation) 40' X 20'	EA	1043.9	0
1518	Labour charges for providing stage for functions and removing the same and handing over to Stores after the programme. Necessary stage materials will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation.	M2	40.1	0
1519	Labour charges for erection of flag post and tying the flag. Rate includes digging hole, erection of post and removing the same after the function is over including refilling the hole and handing over the flag post, flag etc. to Stores after the programme. Necessary flag post and flag will be supplied by BHEL at Stores at free of charges. Rate includes to and fro transportation.	EA	21.3	0
1520	Labour charges for spreading coir mat and removing the same after the function is over. Rate includes to and fro transportation, labour etc. complete. Coir mat will be issued by BHEL at Stores at free of charges.	M2	5.9	0
1523A	Labour charges for providing Shamiana of size 40' X 40' and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes loading and un-loading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	1421.45	0

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
1523B	Labour charges for providing Shamiana of size 40' X 20' and removing the same after the function is over. Necessary shamiana, posts etc. will be supplied by BHEL at Stores at free of charges. Rate includes loading and un-loading charges but transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	911.9	0
1523D	Labour charges for providing stage for functions and removing the same and handing over to Stores after the programme. Necessary stage materials will be supplied by BHEL at Stores at free of charges transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc. but including loading and unloading charges, instead of transporting by the contractor.	M2	32.2	0
1523E	Labour charges for loading, unloading and erection of flag post and tying the flag. Rate includes digging hole, erection of post and removing the same after the function is over including refilling the hole and handing over the flag post, flag etc. to Stores after the programme. Necessary flag post and flag will be supplied by BHEL at Stores at free of charges and transportation (to and fro) will be arranged by BHEL for all the required materials such as shamiana, bamboo posts, coir mat, stage materials, flag posts, chairs etc.	EA	16.9	0
1523F	Labour charges for loading, unloading and spreading coir mat and removing the same after the function is over Coir mat will be issued by BHEL at Stores at free of charges.	M2	1.1	0
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 Cement consumption - 14.91 K.G/SQM	M2	879.2	14.91

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
629	<p>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 &amp; 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.</p>	M2	790.8	
0225	<p>Labour charges for attending to spalling of concrete in ceiling of buildings. Scope of step by step activities are given:-</p> <ul style="list-style-type: none"> <li>i) Removing the loose concrete / plaster by knocking with a 2 lbs hammer, scrapping with steel wire brush and exposing the sound concrete.</li> <li>ii) Removing the rust in reinforcement by scraping with steel brush.</li> <li>iii) Washing the concrete surface and reinforcement. (By jetting water)</li> <li>iv) Applying passivator coat (2 K.G cement &amp; 1 Lit. Roff bond repair) on rusted reinforcement and bond coat using CM 1:3 &amp; Roff bond repair (5 K.G cement &amp; 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.</li> </ul> <p>OR</p> <p>Applying rust primer on the steel and maricrete 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> <ul style="list-style-type: none"> <li>v) Finishing the surface with clean trowel. Note:-</li> </ul> <ul style="list-style-type: none"> <li>I) Cement &amp; the said chemicals will be supplied by BHEL at Stores at free of cost.</li> <li>ii) Rate includes scaffolding, tools, labour, incidentals etc. complete.</li> </ul>	M2	115.5	
0609A	<p>Providing, laying and finishing the top of floor / side walls with 20 mm thick mo-saic 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.)</p> <p>For gray colour</p> <p>Cement consumption - 12.90 K.G/SQM</p>	M2	472.7	12.9

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0609B	<p>Providing, laying and finishing the top of floor / side walls with 20 mm thick mo-saic 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.)</p> <p>For colours other than gray Cement consumption - 12.90 K.G/SQM</p>	M2	527.75	12.9
0610A	<p>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.</p> <p>Gray colour Cement consumption - 5.11 K.G/SQM</p>	M2	465.55	5.11
0610B	<p>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.</p> <p>For colours other than gray Cement consumption - 5.11 K.G/SQM</p>	M2	520.55	5.11
0620A	<p>Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 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.</p> <p>Granite tiles (Polished) - Jet Black Cement consumption - 10.44 K.G/SQM</p>	M2	1691.95	10.44
0620B	<p>Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 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.</p> <p>Granite tiles (polished), 8 to 10 mm thick (approx.) - Red (Gem) Colour Cement consumption - 10.44 K.G/SQM</p>	M2	1342.2	10.44

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
0620C	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 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 Cement consumption - 10.44 K.G/SQM	M2	1378.6	10.44
0620D	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 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 Cement consumption - 10.44 K.G/SQM	M2	1378.6	10.44
0620E	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 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 Cement consumption - 10.44 K.G/SQM	M2	1245.15	10.44
0620F	Stone tile work of 8 mm thick (mirror polished and machine cut edge). for wall lining upto 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) Cement consumption - 10.44 K.G/SQM	M2	1208.75	10.44
601	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	11.70
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), 8 to 10 mm thick (approx.) - Jet Black Cement consumption - 10.44 K.G/SQM	M2	1855.75	10.44

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 Cement consumption - 10.44 K.G/SQM	M2	1506	10.44
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 Cement consumption - 10.44 K.G/SQM	M2	1542.4	10.44
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 Cement consumption - 10.44 K.G/SQM	M2	1542.4	10.44
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 Cement consumption - 10.44 K.G/SQM	M2	1408.95	10.44
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) Cement consumption - 10.44 K.G/SQM	M2	1372.55	10.44
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	3061.05	

S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/unit
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 & 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. Cement consumption - 9.13 K.G/SQM	M2	373.3	9.13
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	
0901J	Supply and stacking the following to standard gauge at site of work, all as per instructions of Engineer-in-Charge. Cattle manure ( measured in stacks will be reduced by 8 % for payment )	M3	371.75	

Mentioned rates excludes GST %

Note:

1. Actual Bill of Quantities (Items with quantity to do the work) will be provided in the sub work order only.