

Bharat Heavy Electricals Limited
High Pressure Boiler Plant
Tiruchirappalli – 620 014. India
Civil Engineering Department (Factory)

TENDER DOCUMENT (PRICE BID)

Name of work : **Maintenance of Concrete,masonry,wall cracks,Ceiling patch works,plastering patch works etc.,at BHEL Township,Trichy**

Value of work : **Rs.20 Lakhs + Applicable GST**

Tender Schedule No. : **CT:TS:018/19-20**

Period of Contract : **12 (Twelve) Months**

Tender evaluation cost : **Rs. 8 Lakhs**

EMD : **Rs. 16000/- (Rupees Sixteen Thousand only)**

Issued to :

Date of Notification : **24.08.2019**

Last Date for Receipt of Tender : **14.09.2019 at 10.00 hrs**

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

SCHEDULE - A

Name of Work: Maintenance of Concrete,masonry,wall cracks,Ceiling patch works,plastering patch works etc.,at 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:18/19-20 for a period of 12 (Twelve) Months at the percentage below / at par / above the rates contained in Bill of Quantities appended below from Page 03.

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-620 014. In case of acceptance of the tender by the BHEL, I/We bind myself/ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to me/us and thus failing which I/We shall have no objection to the forfeiture of the Earnest Money amount to Rs. 16000/- (Rupees Sixteen Thousand only) lodged with Bharat Heavy Electricals Limited, Tiruchirapalli-620 014.

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

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

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the BHEL estimate rate provided in Bill of Quantities appended below from Page 03	
		In Figures	In Words
1.	As per Split and award conditions (Excluding GST) SR given in Bill of Quanties shown below from page No3 = 100%		

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

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

BILL OF QUANTITIES

Name of work :Maintenance of Concrete,masonry,wall cracks,Ceiling patch works,plastering patch works etc.,at BHEL Township,Trichy

Sl.no	S R Item	Matlcode No.	DESCRPITION	Unit	Rate (Rs)	Cement Consumption kg/unit
1	0101A	CS130000101A	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
2	0101B	CS130000101B	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

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3	0101C	CS130000101C	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
4	0101D	CS130000101D	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
5	0102A	CS130000102A	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. All kinds of soil except rock.	M3	138.4	0

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6	0102B	CS130000102B	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Ordinary rock.	M3	221.85	0
7	0102C	CS130000102C	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (requiring blasting).	M3	399.9	0
8	0102D	CS130000102D	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (blasting prohibited)	M3	451.8	0

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9	0103A	CS130000103A	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. All kinds of soil except rock	M3	178.1	0
10	0103B	CS130000103B	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. Ordinary rock	M3	188.55	0
11	0103C	CS130000103C	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. Hard rock (requiring blasting)	M3	334.3	0
12	0103D	CS130000103D	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. Hard rock (requiring blasting)	M3	400.9	0
13	0104	CS1300000104	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 All kinds of soil	M2	35.4	0

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14	0105	CS1300000105	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
15	0106A	CS130000106A	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
16	0106B	CS130000106B	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
17	0106C	CS130000106C	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
18	0107A(i)	CS13000107A1	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 in or under water and/ or liquid mud, including pumping out water as required	M3	25.15	0
19	0107A(ii)	CS13000107A2	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) in or under water and/ or liquid mud, including pumping out water as required	M3	40.35	0

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20	0107A(iii)	CS13000107A3	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) in or under water and/ or liquid mud, including pumping out water as required	M3	72.7	0
21	0107A(iv)	CS13000107A4	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) in or under water and/ or liquid mud, including pumping out water as required	M3	82.15	0
22	0107A(v)	CS13000107A5	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. All kinds of soil except rock in or under water and/ or liquid mud, including pumping out water as required	M3	35.6	0

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23	0107A(vi)	CS13000107A6	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. Ordinary rock in or under water and/ or liquid mud, including pumping out water as required	M3	37.7	0
24	0107A(vii)	CS13000107A7	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. Hard rock (requiring blasting) in or under water and/ or liquid mud, including pumping out water as required	M3	66.85	0
25	0107A(viii)	CS13000107A8	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. Hard rock (blasting prohibited) in or under water and/ or liquid mud, including pumping out water as required	M3	80.2	0
26	0107A(ix)	CS13000107A9	Extra for Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth 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

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27	0107A(x)	CS1300107A10	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
28	0107B(i)	CS13000107B1	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 in or under foul position, including pumping out water as required.	M3	31.45	0
29	0107B(ii)	CS13000107B2	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 in or under foul position, including pumping out water as required.	M3	50.45	0
30	0107B(iii)	CS13000107B3	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) in or under foul position, including pumping out water as required.	M3	90.9	0

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31	0107B(iv)	CS13000107B4	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) in or under foul position, including pumping out water as required.	M3	102.7	0.00
32	0107B(v)	CS13000107B5	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. All kinds of soil except rock in or under foul position, including pumping out water as required.	M3	44.55	0
33	0107B(vi)	CS13000107B6	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. Ordinary rock in or under foul position, including pumping out water as required.	M3	47.15	0
34	0107B(vii)	CS13000107B7	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. Hard rock (requiring blasting) in or under foul position, including pumping out water as required.	M3	83.6	0

35	0107B(viii)	CS13000107B8	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. Hard rock (blasting prohibited) in or under foul position, including pumping out water as required.	M3	100.25	0
36	0107B(ix)	CS13000107B9	Extra for Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth 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.	M2	8.85	0
37	0107B(x)	CS1300107B10	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. .	M2	2.2	0
38	0108A	CS130000108A	Extra for every additional lift of 1.5 metre or part thereof in : All kinds of soil excluding rock.	M3	32.45	0
39	0108B	CS130000108B	Extra for every additional lift of 1.5 metre or part thereof in : Ordinary or hard rock	M3	58.2	0
40	0109	CS1300000109	Extra for every additional lead of 10 metre or part thereof over the initial lead for all kinds of soil.	M3	32.45	0
41	0110	CS1300000110	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete.	M3	502.95	0
42	0111	CS1300000111	Supply and spreading/filling with stone dust complying with standard specifications.	M3	250.4	0
43	0112	CS1300000112	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

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44	0113	CS1300000113	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
45	0114	CS1300000114	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
46	0115	CS1300000115	Labour charges for breaking clods, consolidating, sectioning etc.	M3	2.9	0
47	0116	CS1300000116	Forming turving in slopes with initial watering, all as per instructions of Engineer-in-charge.	M2	16.15	0
48	0117A	CS1300000117A	Extra rate for consolidation of bunds etc. by means of the following, including watering. Hand roller	M3	9.65	0
49	0117B	CS1300000117B	Extra rate for consolidation of bunds etc. by means of the following, including watering. Power roller including hire charges.	M3	16.15	0
50	0118	CS1300000118	Benching hard rock upto an average 10 cm depth	M2	315.7	0
51	0119A	CS1300000119A	Drilling holes in hard granite/RCC structure: 45 mm dia	RM	123.7	0
52	0119B	CS1300000119B	Drilling holes in hard granite/RCC structure: 50 mm dia	RM	147.35	0
53	0119C	CS1300000119C	Drilling holes in hard granite/RCC structure: 75mm dia	RM	167.35	0
54	0120	CS1300000120	Bailing or pumping out water from trenches, foundations etc., at all depths wherever necessary as per standard specifications.	Hour	65.05	0
55	0121	CS1300000121	Clearing grass and removal of rubbish upto a distance of 50 metre.	M2	2.3	0
56	0122	CS1300000122	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

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57	0123A	CS130000123A	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 30 cm girth upto and including 60 cm girth	Each	139.2	0
58	0123B	CS130000123B	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 60 cm girth upto and including 120 cm girth	Each	613.65	0
59	0123C	CS130000123C	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Beyond 120 cm girth upto and including 240 cm girth	Each	2831.15	0
60	0123D	CS130000123D	Felling trees of girth (measured at a height of 1 metre above ground level) including cutting of trunks and branches, removing the roots from the soil and then filling the pit and depression, stacking of serviceable materials and disposal of unserviceable materials. Above 240 cm girth	Each	5682.55	0
61	0124	CS1300000124	Supplying Chlorpyrifos / Lindane emulsifiable concentrate of 20 % (chemical emulsion) in sealed containers at site of work.	L	176.1	0
62	0125	CS1300000125	Labour charges for pre-constructional anti-termite treatment by diluting and injecting chemical emulsion which will be supplied by BHEL at free of cost and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth, surrounding of pipes and conduits etc. complete , all as per standard specification. (Plinth area of building at ground floor only shall be measured for payment)	M2	142.65	0

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63	0126	CS130000126	Diluting and injecting pre-constructional anti-termite treatment by chemical emulsion and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth, surrounding of pipes and conduits etc. complete , all as per standard specification. (Plinth area of building at ground floor only shall be measured for payment). Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge.	M2	477.25	0
64	0127A	CS130000127A	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall and rodding etc. complete.	RM	11.35	0
65	0127B	CS130000127B	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.	RM	17.4	0
66	0127C	CS130000127C	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment of soil under existing floors, using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm dia holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor. (Requirement of chemical emulsion - Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 5 litre / 9 SQM)	M2	90.6	0

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67	0127D	CS130000127D	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole. (Requirement of chemical emulsion - Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	13.5	0
68	0127E	CS130000127E	Labour charges for post-constructional anti-termite treatment by diluting and injecting chemical emulsion (will be supplied by BHEL at free of cost), all as per standard specification. Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/Lindane (in oil or kerosene based solution) @ 0.50 litre per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. Rate includes cost of kerosene but excludes chemical. (Requirement of chemical emulsion - Chlorpyriphos/Lindane E.C 20 % with 1 % concentration - 1.70 litre / 10 RM)	RM	123.8	0
69	0128A	CS130000128A	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall and rodding etc. complete.	RM	66.3	0
70	0128B	CS130000128B	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.	RM	72.35	0

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71	0128C	CS130000128C	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Treatment of soil under existing floors, using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm dia holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor.	SQM	361.95	0
72	0128D	CS130000128D	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole.	RM	96.55	0
73	0128E	CS130000128E	Diluting and injecting chemical emulsion (BIFLEX T.C 2.5 EC in 20 L/Equivalent) for post-constructional anti-termite treatment, all as per standard specification. Rate includes cost of Chemical emulsion, labour charges and all other incidentals etc as per instructions of Engineer in charge. Treatment at points of contact of wood work by chemical emulsion (in oil or kerosene based solution) @ 0.50 litre per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same. Rate includes cost of kerosene, chemical emulsion.	RM	206.8	0
74	0201A	CS130000201A	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.	M3	2019.9	610
75	0201B	CS130000201B	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.	M3	1972.65	400

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76	0201C	CS130000201C	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.	M3	2043.75	320
77	0201D	CS130000201D	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.	M3	1866.15	320
78	0201E	CS130000201E	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.	M3	1913.7	220
79	0201F	CS130000201F	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.	M3	1908.5	170
80	0201G	CS130000201G	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.	M3	1904.35	130
81	0201H	CS130000201H	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.	M3	2117.3	170

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82	0202A	CS130000202A	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.	M3	2211.6	610
83	0202B	CS130000202B	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.	M3	2164.35	400
84	0202C	CS130000202C	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.	M3	2235.45	320
85	0202D	CS130000202D	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1:2 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2822.35	610
86	0202E	CS130000202E	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:1.5:3 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2775.1	400
87	0202F	CS130000202F	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement. 1:2:4 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	M3	2846.2	320

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88	0203	CS130000203	Straightening, cutting, bending, placing in position of MS/CTD bars and binding with MS binding wires of 18/20 gauge etc. for reinforcement of RCC works. Rate includes cover blocks, cost of binding wire , conveyance of MS/ CTD bars from BHEL stores to site of work, labour etc. complete. MS/CTD bars will be supplied by BHEL at Stores at free of cost.	MT	7439.4	0
89	0204A	CS130000204A	Centring and shuttering including strutting, propping, assembling etc. and removal 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
90	0204B	CS130000204B	Centring and shuttering including strutting, propping, assembling etc. and removal 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
91	0204C	CS130000204C	Centring and shuttering including strutting, propping, assembling etc. and removal 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
92	0204D	CS130000204D	Centring and shuttering including strutting, propping, assembling etc. and removal 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
93	0204E	CS130000204E	Centring and shuttering including strutting, propping, assembling etc. and removal 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
94	0204F	CS130000204F	Centring and shuttering including strutting, propping, assembling etc. and removal 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

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95	0204G	CS130000204G	Centring and shuttering including strutting, propping, assembling etc. and removal 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
96	0204H(i)	CS13000204H1	Extra for Centring and shuttering including strutting, propping, assembling etc. and removal 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 in circular work.	M2	33.45	0
97	0204H(ii)	CS13000204H2	Extra for Centring and shuttering including strutting, propping, assembling etc. and removal 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 in circular work.	M2	50.7	0
98	0204H(iii)	CS13000204H3	Extra for Centring and shuttering including strutting, propping, assembling etc. and removal 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 in circular work.	M2	74.35	0
99	0204I	CS130000204I	Centring and shuttering including strutting, propping, assembling etc. and removal 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
100	0205	CS130000205	Extra for additional height in centring, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering and de-centring at all levels, over a height of 4.5 metre for every additional height of 1 metre or part there of. For suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	M2	165.25	0

101	0206	CS130000206	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-20 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	M3	2728.6	383
102	0207A	CS130000207A	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-25 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	M3	2737.05	410
103	0207B	CS130000207B	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-30 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	M3	2740.15	420

104	0207C	CS130000207C	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-35 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	M3	2742.7	428
105	0208	CS130000208	Extra for laying plain / reinforced concrete in or under foul conditions.	M3	125.2	0
106	0209A	CS130000209A	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	M2	842.6	24.76
107	0209B	CS130000209B	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	M2	830.55	20.68
108	0210	CS130000210	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 cupboards, shelves etc. including setting in cement mortar 1:3, cost of centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement and fabrication charges.	M3	6332.65	320

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109	0211	CS130000211	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 and finishing with neat cement punning on exposed surfaces but excluding pointing.	M3	5228.55	320
110	0212	CS130000212	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
111	0213A	CS130000213A	Providing precast cement concrete Jali 1:2:4 using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc.complete. Rate excludes reinforcement steel and fabrication charges. 50 mm thick	M2	538.75	12.8
112	0213B	CS130000213B	Providing precast cement concrete Jali 1:2:4 using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc.complete. Rate excludes reinforcement steel and fabrication charges. 40 mm thick	M2	461.7	10.24
113	0214A	CS130000214A	Providing and fixing RCC precast perforated lawn drain cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel and fabrication charges. 75 mm thick	M2	264.95	19.84
114	0214B	CS130000214B	Providing and fixing RCC precast perforated lawn drain cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel and fabrication charges. 50 mm thick	M2	161.6	12.8

115	0215	CS130000215	Precasting, carrying and fixing in position of RCC louvers including 60 mm thick side posts, 60 mm thick intermittent lintel and 100 mm thick top lintel, 40 mm thick louver slabs lintels etc. (all precast) in cement concrete 1:2:4 using graded stone aggregate 10 mm nominal size with specified reinforcement, all as per standard drawing and instructions of Engineer-in-charge. Rate includes supply and fixing of holdfasts, moulding, scaffolding for fixing at specified levels, finishing and also filling the gap between precast lintels with insitu cement concrete of mix 1:2:4 using 10 mm and down graded hard broken granite stone jelly and filling the gap recesses of side walls with C.M 1:5, cutting and forming chases in brick masonry, finishing jambs wherever necessary and making good all damages to suit the existing work but excluding cost of fabrication charges for reinforcement steel.	M2	772.8	34.73
116	0216A	CS130000216A	Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 69mm thick slab	M2	543.65	26.03
117	0216B	CS130000216B	Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 150mm thick slab	M2	736.75	52

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118	0217	CS1300000217	Encasing rolled steel sections in beams and columns in cement concrete 1:2:4 using graded stone aggregate 12.50 mm nominal size including centering, shuttering etc. complete but excluding cost of reinforcement and fabrication charges.	M3	4078.5	320
119	0218	CS1300000218	Providing balustrade for an overall thickness of 100 mm with cement concrete 1:2:4 using 12 to 20 mm size hard broken granite stone jelly for 75 mm thick inner core applied on chickenmesh and neatly plastered with cement mortar 1:4 on both faces and hand rail plastered in CM 1:4 with an admixture of red oxide including finishing, polishing curing etc., complete. Rate includes cost of all materials and labour but excluding cost of reinforcement and fabrication charges.	M2	994.7	32.92
120	0219	CS1300000219	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
121	0220	CS1300000220	Providing and fixing in position of copper plate as per design for expansion joints.	KG	306.05	0
122	0221	CS1300000221	Providing and filling in position of blown bitumen in expansion joints.	HCM3	5	0
123	0222	CS1300000222	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
124	0223	CS1300000223	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
125	0224	CS1300000224	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
126	0226	CS1300000226	Providing and placing in position PVC water stops serrated with central bulb, 225 mm wide and 8-11 mm thick for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete.	RM	462.05	0
127	0301A	CS130000301A	Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing, all as per standard specifications. Cement mortar 1:5	M3	1775.55	102.3

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128	0301B	CS130000301B	Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing, all as per standard specifications. In cement mortar 1:6	M3	1773.45	82.5
129	0302	CS130000302	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with Cement mortar 1:6.	M3	2070.35	75
130	0303	CS130000303	Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 metre.	M3	301.8	0
131	0304	CS130000304	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
132	0305	CS130000305	Extra for laying stone work in or under foul position.	M3	125.2	0
133	0306	CS130000306	Labour charges for providing random rubble masonry in foundation and basement in the mixes specified including simultaneous flush pointing, all as per standard specifications. Rough stones and bond stones will be supplied by BHEL at free of cost, at site of work.	M3	544.8	0
134	0307	CS130000307	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
135	0308	CS130000308	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
136	0309	CS130000309	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.	M3	3111.15	23.77
137	0310A	CS130000310A	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:3	M3	3725.3	127.5
138	0310B	CS130000310B	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:4	M3	3721.9	95

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139	0310C	CS130000310C	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:5	M3	3720.1	77.5
140	0310D	CS130000310D	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:6	M3	3718.5	62.5
141	0311A	CS130000311A	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:3	M3	3899	112.2
142	0311B	CS130000311B	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:4	M3	3896.05	83.6
143	0311C	CS130000311C	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:5	M3	3894.45	68.2
144	0311D	CS130000311D	Brick work with modular bricks (second class table moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:6	M3	3893.05	55
145	0312	CS1300000312	Extra for Brick work in superstructure above plinth upto floor three level in all shapes and sizes.	M3	271.25	0
146	0313	CS1300000313	Extra for brick work with bricks curved on plan upto a mean radius not exceeding 6 metre.	M3	473.9	0
147	0314	CS1300000314	Extra charges for providing half brick masonry, brick on edge walls, fins, balustrade etc. over and above the brick work rates of 0310 and 0311.	M3	297.6	0
148	0315	CS1300000315	Honey-comb brick work 10 / 11.40 cm thick with FPS bricks of class designation 50 in cement mortar 1:4.	M2	314.15	6.56
149	0316	CS1300000316	Extra for laying brick work in or under foul position.	M3	125.2	0
150	0317	CS1300000317	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
151	0318	CS1300000318	Rectifying the wall cracks by chipping off the existing plastered surfaces to the required width, depth and applying cement slurry in the cracks to the required depth, making good all damages and finishing to match with the existing one by plastering with C.M 1:5, 12/15mm thick and a coat of white wash / snowcem / distemper etc. as the case may be.	M2	93.3	0

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152	0319	CS130000319	Rectifying the wall cracks by chipping off the existing plastered surfaces to the required width, depth and applying cement slurry in the cracks to the required depth, making good all damages, 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
153	0320	CS130000320	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 conforming to IS 12894 of class designation 50 (min) in foundation, plinth and superstructure above plinth up to floor V level as per standard specifications and instructions of Engineer in charge In cement mortar 1:5	M3	4320.7	77.5
154	0321	CS130000321	Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in foundation, plinth and superstructure above plinth up to floor V level as per standard specifications and instructions of Engineer in charge In cement mortar 1:5	M3	4160	95
155	0801A	CS130000801A	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 12mm thick	M2	93.25	7.35
156	0801B	CS130000801B	Plastering with cement mortar as per standard specifications. In cement mortar 1:4, 12mm thick	M2	93.05	5.47
157	0801C	CS130000801C	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 12mm thick	M2	92.95	4.46
158	0801D	CS130000801D	Plastering with cement mortar as per standard specifications. In cement mortar 1:6, 12mm thick	M2	92.85	3.6
159	0801E	CS130000801E	Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 15mm thick	M2	107.3	8.77
160	0801F	CS130000801F	Plastering with cement mortar as per standard specifications. In Cement mortar 1:4, 15mm thick	M2	107.05	6.54
161	0801G	CS130000801G	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 15mm thick	M2	106.9	5.33
162	0801H	CS130000801H	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 15mm thick	M2	106.8	4.3
163	0801I	CS130000801I	Plastering with cement mortar as per standard specifications. In Cement mortar 1:3, 20mm thick	M2	125.2	11.42

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164	0801J	CS130000801J	Plastering with cement mortar as per standard specifications. In Cement Mortar 1:4, 20mm thick	M2	124.9	8.51
165	0801K	CS130000801K	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 20mm thick	M2	124.7	6.94
166	0801L	CS130000801L	Plastering with cement mortar as per standard specifications. In Cement mortar 1:6, 20mm	M2	124.6	5.6
167	0802	CS1300000802	Damp proof course with cement mortar 1:3, 12 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.	M2	108.85	7.35
168	0803	CS1300000803	Damp proof course with cement mortar 1:3, 20 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.	M2	149.35	11.42
169	0804	CS1300000804	Damp proof course with cement mortar 1:3, 12 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	M2	99.05	7.35
170	0805	CS1300000805	Damp proof course with cement mortar 1:3, 20 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	M2	134.15	11.42
171	0806	CS1300000806	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications.	M2	82.1	3.67
172	0807	CS1300000807	Plain cement mortar bands of 12 mm thick in cement mortar 1:4 to the specified width as per standard specifications.	M2	228.85	5.32
173	0808	CS1300000808	Stucco plastering 12 mm thick with cement mortar 1:3 (1 cement and 3 coarse aggregate of 6 to 12 mm size) over a backing plastering, all as per standard specifications. (Backing plaster will be paid for separately)	M2	96.55	7.3
174	0809	CS1300000809	Exposed aggregate plastering with crushed stone graded from 6 to 12 mm nominal size dashed over and including fresh plaster in cement mortar 1:3, 12mm thick over a backing coat of cement plaster (which will be paid separately), all as per standard specifications.	M2	128.15	7.3
175	0810	CS1300000810	Finishing the plastered surfaces with a floating coat of cement (punning), all as per standard specifications.	M2	21.7	2.2
176	0811	CS1300000811	Flush/Ruled pointing on stone work with cement mortar 1:3 as per standard specifications.	M2	114.05	1.17

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177	0812	CS1300000812	Pointing to rough stone dry packing in aprons and revetments including grouting to a depth of 40 mm with cement mortar 1:3, all as per standard specifications.	M2	62.9	1.84
178	0813	CS1300000813	Flush pointing with cement mortar 1:3 for stone slab pavement or precast slab pavement or tiling works etc., all as per standard specifications.	M2	95.8	2.35
179	0814	CS1300000814	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 providing and fixing with teak wood beading 50 x 25 mm on top of board and hooks and chalk stand on the bottom of board etc., all as per standard specifications.	M2	836.3	13.2

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