

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

TENDER DOCUMENT (PRICE BID)		
Name of work	:	Annual Maintenance contract for maintenance of water supply and Plumbing works in BHEL Township, Trichy
Tender Schedule No	:	CT: TS: 009 / 20 - 21
Estimate Value of Work	:	Rs. 65,00,000.00 + Applicable GST
EMD	:	Rs. 65,000 (Rupees Sixty Five Thousand only)
Period of Contract	:	15 (Fifteen) Months
Date of Notification	:	20.10.2020
Last Date of Receipt of Tender	:	10.11.2020 @ 10:00 hrs.
Date of Tender Opening	:	10.11.2020 @ 10:00 hrs.

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI - 620 014

SCHEDULE - A

Name of Work: Annual Maintenance contract for maintenance of water supply and Plumbing works 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: 009 / 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. 65000** 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.	Rates shown in below Bill of Quantities (Excluding GST) = 100%		

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.

BILL OF QUANTITIES

Name of work : Annual Maintenance contract for maintenance of water supply and Plumbing works in BHEL Township, Trichy

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1101A	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 15 mm dia nominal bore.	RM	147.1	0
1101B	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 20 mm dia nominal bore.	RM	180	0
1101C	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 25 mm dia nominal bore.	RM	239.65	0
1101D	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 32 mm dia nominal bore.	RM	290.1	0
1101E	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 40 mm dia nominal bore.	RM	345.1	0
1101F	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 50 mm dia nominal bore.	RM	431.55	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1101G	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 65 mm dia nominal bore.	RM	531.25	0
1101H	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 80 mm dia nominal bore.	RM	677.65	0
1101I	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 100 mm dia nominal bore.	RM	835.65	0
1101J	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 125 mm dia nominal bore.	RM	1409.55	0
1101K	Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 150 mm dia nominal bore.	RM	1627.45	0
1102	Making chases upto 7.50 x 7.50 cm in walls for concealed pipe line works etc. including making good to match with existing one after housing pipes etc. complete. Rate excludes cost of pipes.	RM	57.4	0
1103A	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 15 mm dia nominal bore.	RM	87	0
1103B	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 20 mm dia nominal bore.	RM	110.60	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1103C	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 25 mm dia nominal bore.	RM	162.10	0
1103D	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 32 mm dia nominal bore.	RM	199.20	0
1103E	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 40 mm dia nominal bore.	RM	232.70	0
1103F	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 50 mm dia nominal bore.	RM	290.1	0
1103G	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 65 mm dia nominal bore.	RM	381.7	0
1103H	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 80 mm dia nominal bore.	RM	504.25	0
1103I	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 100 mm dia nominal bore.	RM	650.95	0
1103J	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 125 mm dia nominal bore.	RM	1150.25	0
1103K	Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately. 150 mm dia nominal bore.	RM	1360.8	0
1104A	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 18/20 mm OD (10 kg/Sq.cm)	RM	62.9	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1104B	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 25 mm OD (10 kg/Sq.cm)	RM	80.05	0
1104C	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 32 mm OD (10 kg/Sq.cm)	RM	96.1	0
1104D	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 40 mm OD (6 kg/Sq.cm)	RM	119.65	0
1104E	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls) PVC Pipe 50 mm OD (6 kg/Sq.cm)	RM	156.8	0
1105A	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 18/20 mm OD (10 kg/Sq.cm)	RM	23.35	0
1105B	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 25 mm OD (10 kg/Sq.cm)	RM	32.35	0
1105C	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 32 mm OD (10 kg/Sq.cm)	RM	46.25	0
1105D	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 40 mm OD (6 kg/Sq.cm)	RM	51.1	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1105E	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 50 mm OD (6 kg/Sq.cm)	RM	72.35	0
1105F	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 63 mm OD (6 kg/Sq.cm)	RM	108.5	0
1105G	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 75 mm OD (6 kg/Sq.cm)	RM	150.7	0
1105H	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 90 mm OD (6 kg/Sq.cm)	RM	211.45	0
1105I	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 110 mm OD (6 kg/Sq.cm)	RM	294.65	0
1105J	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 140 mm OD (6 kg/Sq.cm)	RM	464.3	0
1105K	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 160 mm OD (6 kg/Sq.cm)	RM	594.7	0
1105L	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 180 mm OD (6 kg/Sq.cm)	RM	774.35	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1105M	Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately. PVC Pipe 200 mm OD (6 kg/Sq.cm)	RM	941.9	0
1106A	Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 75 mm OD	RM	128.05	0
1106B	Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 110 mm OD	RM	225.2	0
1106C	Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. PVC Pipe 160 mm OD	RM	364.85	0
1107A	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 75 x75 x 75 mm single tee with door.	EA	134.5	0
1107B	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 110 x 110 x 110 mm single tee with door.	EA	197.9	0
1107C	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 160 x 160 x 160 mm single tee with door.	EA	335.15	0
1107D	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 75 x75 x 75 mm single tee without door.	EA	119.1	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1107E	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 110 x110 x 110 mm single tee without door.	EA	174.8	0
1107F	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 160 x160 x 160 mm single tee without door.	EA	288.85	0
1107G	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 75 mm shoe	EA	68.6	0
1107H	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 110 mm shoe	EA	101.7	0
1107I	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 160 mm shoe	EA	174.9	0
1107J	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 75 mm bend	EA	81.9	0
1107K	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 110 mm bend	EA	150.25	0
1107L	Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete. 160 mm bend	EA	191.5	0
1108A	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 15 to 25 mm nominal bore	EA	421.7	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1108B	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 32 mm nominal bore	EA	545.35	0
1108C	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 40 mm nominal bore	EA	712.8	0
1108D	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 50 mm nominal bore	EA	962.7	0
1108E	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 80 mm nominal bore	EA	2730.25	0
1108F	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 100 mm nominal bore	EA	4972	0
1109A	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 15 mm nominal bore.	EA	207.55	0
1109B	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 20 mm nominal bore.	EA	265.25	0
1109C	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 25 mm nominal bore.	EA	342.1	0
1110A	Providing and fixing in position of following of approved brand (ISI marked) 15 mm nominal bore C.P brass long nose bibcock	EA	748.7	0
1110B	Providing and fixing in position of following of approved brand (ISI marked) 15mm nominal C.P brass stop cock (concealed)	EA	585.95	0
1110C	Providing and fixing in position of following of approved brand (ISI marked) 15 mm nominal C.P brass long body bibcock	EA	577.1	0
1111	Providing and fixing in position 15 mm nominal bore C.P brass angle valve for basin mixer and geyser points of approved brand (ISI marked)	EA	479.85	0
1112	Providing and fixing in position 100 mm dia C.P brass shower rose (tilting type) of approved brand with 15 or 20 mm dia inlet.	EA	67.65	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1113	Providing and fixing in position of white glazed earthenware wash basin of size 550 x 400 x 225 mm of approved brand with M.S or C.I brackets painted with two coats of synthetic enamel paint, single 15 mm C.P brass pillar tap and C.P brass chain with rubber plug, 32 mm C.P brass waste coupling of standard pattern, 32 mm dia PVC flexible waste pipe etc. complete, including cutting and making good the walls wherever required.	EA	1605.80	0
1114	Providing and fixing in position of white glazed earthenware wash basin of size 550 x 400 x 225 mm of approved brand with M.S or C.I brackets painted with two coats of synthetic enamel paint, single 15 mm C.P brass pillar tap and C.P brass chain with rubber plug, 32 mm C.P brass waste coupling of standard pattern, 32 mm dia PVC flexible waste pipe etc. complete, including cutting and making good the walls wherever required.	RM	1154.5	0
1115A	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality & colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) PTMT towel rail 600 mm	EA	382.05	0
1115B	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality & colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) Brass chromium plated towel rail 600 mm and 20 mm dia	EA	399.65	0
1115C	Providing and fixing in position of towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality & colour. (600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams) Anodised aluminium Towel rail 60cm long and 20mm dia with brackets	EA	266.55	0
1116A	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. 600 x 450 x 5 mm bevelled edge mirror	EA	374.0	0
1116B	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Circular shape 450 mm dia Mirror with Plastic moulded frame	EA	528	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1116C	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Rectangular shape 453x357 mm Mirror with Plastic moulded frame	EA	363	0
1116D	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Oval shape 450x350 mm (outer dimensions) Mirror with Plastic	EA	418	0
1116E	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	EA	803	0
1117	Providing and fixing in position of 600 x 120 x 5 mm glass shelf (approved brand) with edges rounded off, supported on anodised aluminium angle frame with C.P brackets fixed with screws , rawl plugs etc. complete.	EA	308	0
1118	Providing and fixing RCC precast sink of size 60 x 45 x 25 cm in cement concrete of mix 1:2:4 for 25 mm thick bottom slab and 20 mm thick side walls using 6 mm granite stone jelly, applied on chickenmesh and plastered both sides with cement mortar 1:4, 12 mm thick and finished smooth, supply and fixing PVC waste pipe 32 mm dia. with necessary coupling, etc., complete. Rate includes cost of all materials, labour, curing, carrying and fixing in position etc. but excluding cost of binding wire and fabrication charges for grills, all as per standard specifications..	EA	1244.4	0
1119A	Providing and fixing in position of ready made sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Cudappa sink of size 600X450X200 or thereabouts (outer dimensions) - 12 mm thick.	EA	766.1	0
1119B	Providing and fixing in position of ready made sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Cudappa sink of size 600X600X200 or thereabouts (outer dimensions) - 12 mm thick.	EA	932.15	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1119C	Providing and fixing in position of ready made sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Marble (white) sink of size 23" dia x 17" x 9"/10" or thereabouts (outer dimension) - 12mm thick	EA	1174.8	0
1119D	Providing and fixing in position of ready made sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Marble (white) sink of size 23" dia x 23" x 9"/10" or thereabouts (outer dimension) - 12mm thick	EA	1460.8	0
1119E	Providing and fixing in position of ready made sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Granite (black) sink of size 23" dia x 17" x 9"/10" or thereabouts (outer dimension) - 12mm thick	EA	1614.8	0
1119F	Providing and fixing in position of ready made sink including PVC flexible waste pipe of 32 mm dia with necessary C.P waste coupling etc. complete. Granite (black) sink of size 23" x 23" x 9"/10" or thereabouts (outer dimensions) - 12 mm thick.	EA	1900.8	0
1120	Conveying RCC/ ready made sink from BHEL stores to site of work and fixing in proper position with cement mortar including supply and fixing 32 mm dia PVC waste pipe with necessary coupling etc. complete. Rate excludes cost of sink which will be supplied by BHEL at stores at free of cost.	EA	181.5	0
1121	Providing and fixing in position of 100 x 75 mm Nahani trap with PVC grating, all as per standard specifications	EA	182.7	0
1122	Providing and fixing in position of 150 mm SW gully trap with HCI grating, all as per standard specifications.	EA	288.75	0
1123A	Providing and fixing in position of brass ball valve of approved brand with plastic float fitted with brass rod etc. complete. 20mm nominal bore	EA	385.8	0
1123B	Providing and fixing in position of brass ball valve of approved brand with plastic float fitted with brass rod etc. complete. 25mm nominal bore	EA	432.3	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1124A	Providing and fixing in position of Indian type white glazed earthenware water closet pan of approved brand with suitable P or S trap including a pair of white glazed foot rest etc. complete. 580 mm size	EA	1112.35	0
1124B	Providing and fixing in position of Indian type white glazed earthenware water closet pan of approved brand with suitable P or S trap including a pair of white glazed foot rest etc. complete. 500 mm size	EA	1579.85	0
1125A	Providing and fixing in position of orissa pattern water closet of approved brand with integral type foot rests,suitable P or S trap etc. complete. 580 mm size (White) (Parryware/Neycer/Cera)	EA	1815.25	0
1125B	Providing and fixing in position of orissa pattern water closet of approved brand with integral type foot rests,suitable P or S trap etc. complete. 580 mm size (colour)	EA	2146.35	0
1126	Providing and fixing in position of 25 mm nominal bore C.P half turn flush valve of approved brand (ISI marked) in pipe lines.	EA	1017.5	0
1127A	Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings & brackets, cutting and making good the walls and floors wherever required etc. complete. White glazed (white seat and lid)	EA	4530.05	0
1127B	Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings & brackets, cutting and making good the walls and floors wherever required etc. complete. Colour glazed with colour seat and lid	EA	4931.55	0
1128	Providing and fixing in position of 10 litre low level PVC flushing cistern of approved make with fittings and flush pipe etc. complete.	EA	679.95	0
1129	Providing and fixing in position 32 mm dia G.I flush pipe with brass union for high level flushing cistern including cutting and making good the walls and floors etc. complete.	EA	543.95	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1130A	Providing and fixing in position of white glazed earthenware urinal of approved brand with teakwood plugs and screws/clamps, including standard PVC flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, cutting of floor and walls and making good all damages and finishing to match with the existing work etc., complete. Flat back angular lipped urinal of 430 x 260 x 350 mm or 340 x 410 x 265 mm	EA	1383.5	0
1130B	Providing and fixing in position of white glazed earthenware urinal of approved brand with teakwood plugs and screws/clamps, including standard PVC flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, cutting of floor and walls and making good all damages and finishing to match with the existing work etc., complete. Flat back half stall urinal of size 580x380x350 mm	EA	2606.7	0
1131A	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc.complete. 100 mm dia S.W Pipes Cement consumption 0.64 Kg / R.M	RM	176.75	0.64
1131B	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc.complete. 150 mm dia S.W Pipes	RM	270.45	1.2
1131C	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc.complete. 200 mm dia S.W Pipes Cement consumption 1.77 Kg / R.M	RM	402.65	1.77
1131D	Providing, laying in proper grade and alignment and joining glazed stoneware pipes of approved brand with stiff mixture of cement mortar 1:1 and spun yarn including testing of joints etc.complete. 225 mm dia S.W Pipes Cement consumption 2.17 Kg / R.M	RM	491.75	2.17

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1132A	<p>Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame.</p> <p>Upto 0.90 m depth (Rectangular) Cement consumption 128.00 Kg / Each</p>	EA	4131.75	128
1132B	<p>Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame.</p> <p>Above 0.90 and upto 1.20 m depth (Rectangular) Cement consumption 278.01 Kg / Each</p>	EA	6589.65	278.01
1132C	<p>Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but ex-cludes cost of manhole cover and frame.</p> <p>Above 1.20 and upto 1.50 m depth (Rectangular) Cement consumption 320.31 Kg / Each</p>	EA	8361.35	320.31

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S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1132D	Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.50 and upto 1.80 m depth (Rectangular) Cement consumption 332.10 Kg / Each	EA	9284.9	332.1
1132E	Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 1.80 and upto 2.10 m depth (Rectangular) Cement consumption 367.94 Kg / Each	EA	10773.8	367.94
1132F	Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.10 and upto 2.40 m depth (Rectangular) Cement consumption 403.63 Kg / Each	EA	12463.5	403.63

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1132G	Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.40 and upto 2.70 m depth (Rectangular) Cement consumption 594.62 Kg / Each	EA	15600.85	594.62
1132H	Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 2.70 and upto 3.00 m depth (Rectangular) Cement consumption 618.57 Kg / Each	EA	16756.65	618.57
1132I	Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 3.00 and upto 3.30 m depth (Rectangular) Cement consumption 654.69 Kg / Each	EA	18619.6	654.69

S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1132J	Providing rectangular/circular manhole as per Drawing for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. Above 3.30 and upto 3.60 m depth (Rectangular) Cement consumption 690.82 Kg / Each	EA	20482.55	690.82
1133A	Supply and fixing C.I cover with/without frame for manholes/gully traps. 500 mm dia C.I cover only (Without frame) (Medium duty) Weight of the cover to be not less than 58 K.G.	EA	2587.35	0
1133B	Supply and fixing C.I cover with/without frame for manholes/gully traps. 500 mm dia C.I cover with frame (Medium duty) Total weight of cover and frame to be not less than 116 K.G (Weight of cover 58 K.G and weight of frame 58 K.G)	EA	5309.7	0
1133C	Supply and fixing C.I cover with/without frame for manholes/gully traps. 560 mm dia C.I cover only. (Without frame) (Heavy duty) Weight of cover to be not less than 108 K.G.	EA	5562.35	0
1133D	Supply and fixing C.I cover with/without frame for manholes/gully traps. 560 mm dia C.I cover with frame. (Heavy duty) Total weight of cover and frame to be not less than 208 K.G (Weight of cover 108 K.G and weight of frame 100 K.G)	EA	10045.2	0
1133E	Supply and fixing C.I cover with/without frame for manholes/gully traps. 300 x 300 mmC.I cover without frame for gully trap (standard pattern) The weight of cover to be not less than 4.50 K.G.	EA	260.6	0
1134	Labour charges for laying centrifugally C.I pipes (S&S or flanged pipes) in trenches to proper grade and alignment. Rate excludes cost of pipes.	MT	1020.45	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1135	Labour charges for laying C.I specials such as tees, bends, collars, tapers, caps etc. in trenches to proper alignment. Rate excludes cost of specials.	MT	1960.45	0
1136A	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 80 mm dia C.I pipe.	EA	44.65	0
1136B	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 100 mm dia C.I pipe.	EA	60.1	0
1136C	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete 125 mm dia C.I pipe.	EA	83.9	0
1136D	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 150 mm dia C.I pipe.	EA	113.1	0
1136E	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 200 mm dia C.I pipe.	EA	150.85	0
1136F	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 250 mm dia C.I pipe.	EA	186.95	0
1136G	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 300 mm dia C.I pipe.	EA	224.7	0
1136H	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 350 mm dia C.I pipe.	EA	260.8	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1136I	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 400 mm dia C.I pipe.	EA	298.3	0
1136J	Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete. 450 mm dia C.I pipe.	EA	334.65	0
1137A	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 80 / 100 mm dia pipe.	EA	163.5	0
1137B	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 125 / 150 mm dia pipe.	EA	241.5	0
1137C	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 200 / 250 mm dia pipe.	EA	365.95	0
1137D	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 300 / 350 mm dia piPE.	EA	498.25	0
1137E	Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead. 400 / 450 mm dia pipe.	EA	698.95	0
1138A	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 100 / 125 mm dia pipe.	EA	173.25	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1138B	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 150 / 200 mm dia pipe.	EA	208.55	0
1138C	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 250 / 300 mm dia pipe.	EA	323.45	0
1138D	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 350 / 400 mm dia pipe.	EA	453.75	0
1138E	Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete. 450 / 500 mm dia pipe.	EA	836.75	0
1139	Desludging and cleaning the underground equalising reservoirs by dewatering, scraping the silt deposited on floor, brushing, swabbing, cleaning, scraping side walls and floors with bleaching powder, removing dirt, moss, cleaning the reservoirs with fresh water etc. complete. Rate includes labour, scaffolding, brushes, brooms etc. complete. Bleaching powder, electrical/diesel opeared pumps with power/diesel and fresh water will be supplied by BHEL at free of charges..	M2	6	0
1140	Cleaning the main over head water tanks by dewatering, scouring the silt de-positied on the floor of tanks, removing cobweb, brushing, scraping the side walls and floors of inner and outer compartments using cleaning powder, removal of sediment, applying cleaning powder on all interior surfaces and kept under disinfection for a minimum of 12 hour, then washing thoroughly with clean water without any residual cleaning powder or any foreign matter etc. complete. Rate includes all labour, brushes, brooms etc. Cleaning powder will be supplied by BHEL at stores at free of cost. Payment will be made for the floors and inside walls of the water tanks. (Staging height may vary from 15 to 23 M from ground level)	SQM	6.5	0

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S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1141	Cleaning of over head water tank of 500 cum capacity with a staging height of 23 to 40 M from ground level by dewatering, removing algae, fungus, scouring the silt deposited on the floors of the tank, removing cobweb, brushing, scraping the side walls of inner and outer shells, floors, columns and beams using necessary cleaning powder on all interior surfaces and kept under disinfection for a minimum of 12 hour, then washing thoroughly with clean water without any residual cleaning powder or any other foreign matter etc., complete. Necessary cleaning powder, brushes, brooms and ladder will be supplied by BHEL at stores at free of cost. Contractor has to take all safety precautions.	EACH	4880.75	0
1142A	Replacement to the damaged water closet by providing new Orissa water closet pan of approved brand with suitable trap. Rate includes dismantling the damaged water closet with foot rests, trap, ellis/mosaic floor finish with base concrete, sand and refilling with fresh river sand, providing new Orissa pan with trap & fixing in position, providing 20 mm thick ellis pattern finish over 75 mm thick floor concrete in PCC 1:5:10 using 40 mm size stone jelly for that area, finishing the side walls to match with the existing one etc. complete. 580 mm size (White)	EACH	1617.9	0
1142B	Replacement to the damaged water closet by providing new Orissa water closet pan of approved brand with suitable trap. Rate includes dismantling the damaged water closet with foot rests, trap, ellis/mosaic floor finish with base concrete, sand and refilling with fresh river sand, providing new Orissa pan with trap & fixing in position, providing 20 mm thick ellis pattern finish over 75 mm thick floor concrete in PCC 1:5:10 using 40 mm size stone jelly for that area, finishing the side walls to match with the existing one etc. complete. 580 mm size (White), but with 20 mm thick insitu mosaic floor finish as per usual practice instead of ellis pattern finish.	EACH	1788.4	0
1143	Replacement to the damaged European water closet by providing new white glazed European water closet (white) 400 mm high of approved brand with seat & lid. Rate includes dismantling the damaged water closet, providing new EWC, fixing, all labour etc. complete.	EACH	1495.6	0
1144	Labour charges for dismantling the trap alone without damaging the water closet & refixing with new trap supplied by BHEL at stores at free of cost & making good all damages and finishing to match with the existing one etc.complete.	EACH	211.75	0
1145	Replacement to the damaged nahani trap by providing and fixing in position of new PVC nahani trap 100 x 75 mm with grating as per standard specifica-tions. Rate includes labour for dismantling the existing trap, refixing with new one, making good all damages and finishing to match with the existing one etc., complete.	EACH	352	0
1146	Providing 32 mm dia PVC waste pipe to sink with necessary coupling etc complete.	EACH	49.5	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1147A	Cleaning & complete removal of all the obstructions/blockage accumulated such as silt, sand, debris, all other wastes etc. from manhole & disposing the same in the near by low level areas. Scope includes opening the manhole cover, removing all the blockage such as silt, sand, debris, all other wastes etc., lifting, disposing the same in the near by low level areas, all labour, tools, repositioning the manhole cover after finishing the job etc.complete. Manhole upto 1.50 metre depth	EACH	168.5	0
1147B	Cleaning & complete removal of all the obstructions/blockage accumulated such as silt, sand, debris, all other wastes etc. from manhole & disposing the same in the near by low level areas. Scope includes opening the manhole cover, removing all the blockage such as silt, sand, debris, all other wastes etc., lifting, disposing the same in the near by low level areas, all labour, tools, repositioning the manhole cover after finishing the job etc.complete. Manhole beyond 1.50 but upto 3.30 metre depth	EACH	378.4	0
1148	leaning the sewer line in all depths between manhole to manhole & complete removal of all the obstructions/blockage accumulated such as silt, sand, debris, all other wastes etc. by means of blockage removal machine attached with sewer cleaning rod etc. & disposing the same in the near by low level areas. Scope includes opening the manhole cover, removing all the blockage such as silt, sand, debris, all other wastes etc., lifting, disposing the same in the near by low level areas, all labour, tools, repositioning the manhole cover after finishing the job etc.complete. Blockage removal machine attached with sewer cleaning rod for the job will be issued by BHEL at stores at free of cost.	R.M	16.8	0
1149A	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 15 mm dia nominal bore.	RM	58.55	0
1149B	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 20 mm dia nominal bore.	RM	64.85	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1149C	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 25 mm dia nominal bore.	RM	71.40	0
1149D	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 32 mm dia nominal bore.	RM	80.05	0
1149E	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 40 mm dia nominal bore.	RM	102.15	0
1149F	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 50 mm dia nominal bore.	RM	124.1	0
1149G	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 65 mm dia nominal bore.	RM	135.2	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1149H	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 80 mm dia nominal bore.	RM	143.7	0
1149I	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 100 mm dia nominal bore.	RM	229.75	0
1149J	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 125 mm dia nominal bore.	RM	163.35	0
1149K	Labour charges for conveying, laying and fixing G.I pipes and specials with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 150 mm dia nominal bore.	RM	172.4	0
1150A	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 15 mm diameter pipe	RM	8.45	0
1150B	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 20 mm diameter pipe	RM	9.95	0
1150C	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 25 mm diameter pipe	RM	13.1	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1150D	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 32 mm diameter pipe	RM	15.50	0
1150E	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 40 mm diameter pipe	RM	18.4	0
1150F	Painting G.I pipes and fittings with synthetic enamel paint of two coats over a ready mixed priming coat, both of approved quality for new work. 50 mm diameter pipe	RM	21.7	0
1151A	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Up to 500 litre	EA	99	0
1151B	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Above 500 but up to 1000 litre	EA	123.2	0
1151C	Conveying polyethylene cylindrical moulded water storage tank of following capacity from BHEL stores to site of work and placing it in proper position in buildings at required levels/floors. All as per instructions of Engineer in charge. Rate includes conveyance, placing it in position at required level, fixing the specials like barrel nipples etc. complete. PVC tank and all specials will be issued by BHEL at stores at free of cost. Above 1000 but up to 2000 litre	EA	198	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1152A	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 15 mm dia nominal bore.	RM	8.45	0
1152B	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 20 mm dia nominal bore.	RM	8.45	0
1152C	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 25 mm dia nominal bore.	RM	12.9	0
1152D	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 32 mm dia nominal bore.	RM	12.95	0
1152E	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 40 mm dia nominal bore.	RM	17.25	0
1152F	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 50 mm dia nominal bore.	RM	17.45	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1152G	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 65 mm dia nominal bore.	RM	30.55	0
1152H	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 80 mm dia nominal bore.	RM	30.75	0
1152I	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 100 mm dia nominal bore.	RM	45.1	0
1152J	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 125 mm dia nominal bore.	RM	45.1	0
1152K	Labour charges for conveying, laying and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches.Rate includes cost of white lead, hemp, oil, sand etc. but excludes cost of G.I pipes, specials and clamps which will be supplied by BHEL at stores at free of cost. 150 mm dia nominal bore.	RM	70.5	0
1153A	Providing and fixing gun metal non- return valve of approved quality(screwed end) 25 mm nominal bore (Horizontal)	EA	388.3	0
1153B	Providing and fixing gun metal non- return valve of approved quality(screwed end) 25 mm nominal bore (Vertical)	EA	421.3	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1153C	Providing and fixing gun metal non return valve of approved quality(screwed end) 32 mm nominal bore (Horizontal)	EA	522.70	0
1153D	Providing and fixing gun metal non return valve of approved quality(screwed end) 32 mm nominal bore (Vertical)	EA	599.7	0
1153E	Providing and fixing gun metal non return valve of approved quality(screwed end) 40 mm nominal bore (Horizontal)	EA	646.15	0
1153F	Providing and fixing gun metal non return valve of approved quality(screwed end) 40 mm nominal bore (Vertical)	EA	855.15	0
1153G	Providing and fixing gun metal non return valve of approved quality(screwed end) 50 mm nominal bore (Horizontal)	EA	934.8	0
1153H	Providing and fixing gun metal non return valve of approved quality(screwed end) 50 mm nominal bore (Vertical)	EA	1143.8	0
1153I	Providing and fixing gun metal non return valve of approved quality(screwed end) 65 mm nominal bore (Horizontal)	EA	1674.25	0
1153J	Providing and fixing gun metal non return valve of approved quality(screwed end) 65 mm nominal bore (Vertical)	EA	1916.25	0
1153K	Providing and fixing gun metal non return valve of approved quality(screwed end) 80 mm nominal bore (Horizontal)	EA	2369.9	0
1153L	Providing and fixing gun metal non return valve of approved quality(screwed end) 80 mm nominal bore (Vertical)	EA	3216.9	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1154	Supply at site of work and fixing in position of 32mm dia. CP bottle trap for water line connection in wash basin / urinals of approved brand and quality. All as per standard specifications and instructions of Engineer-in-charge.	EA	625.75	0
1155	Supplying and placing in proper position of Polyethylene cylindrical moulded vertical storage tank of 500 litres capacity of approved quality in buildings at required levels / floors as per the instruction of Engineer in charge. Rate shall include cost of the tank, taxes, duties, loading unloading transportation charges delivery to BHEL conveying to site of work and placing in position at required level, fixing the barrel nipple to the tank etc., and all other incidental charges etc., complete. Rate will exclude the cost of all special like barrel nipple etc., which will be issued by BHEL at free of cost.	EA	3759.3	0
1156	Providing and fixing in position of fire clay laboratory sink (white) of size 610 mm x 460 mm x 205 mm or thereabouts of approved make and quality Neycer or equivalent with 32 mm waste coupling, waste hose and 250 mm clamps with necessary fixing arrangements. Rate includes cost of sink, waste coupling, waste hose, clamps, labour for fixing and all other incidental charges etc., complete. All as per standard specifications and instructions of Engineer in charge.	EA	9211.7	0
1157	Providing and fixing in position of white glazed earthen ware wash hand basin of oval shape size 540 mm x 460 mm or thereabouts of approved make and quality (Parry ware or equivalent) with 32 mm CP Waste coupling and necessary fixing arrangements. Rate includes cost of wash basin, waste coupling, labour for fixing and all other incidental charges, etc., complete. All as per standard specifications and instructions of Engineer in charge .	EA	2066	0
1158	Providing and fixing in position of Float valve PTMT (Poly Tetra-Methylene Terephthalate) Ball Cock-20 mm nominal bore of PRAYAG (India) make with Epoxy coated Aluminium rod and HD Ball etc. complete(Full Set)	EA	302	0
1159	Labour charges for removing the blockage in the gully trap and cleaning it completely, all as per the instructions of Engineer-in-charge.	NO	32.25	0

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S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1537	Cleaning of Septic tanks including removal of all sludge/waste material with septic tank cleaning vehicle of tank capacity of 7000 litres and conveying the waste to all leads and disposal off. Rate includes hire and running charges for the septic tank cleaning vehicle with driver and labour for cleaning the septic tank, cost of tools and plants, all incidental charges, leading disposing off the sewage and wastages etc as per the instructions of Engineer in Charge. Payment will be made for one trip up to a maximum of 7000 litres quantity of sewage.	EA	2687.5	0
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
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

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
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	78.90	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
1001A17	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. G.I / PVC pipe lines of various dia including all specials.	RM	10.8	0
1001A18	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. A.C / C.I rain water pipes upto 150 mm dia with fittings and clamps.	RM	20.15	0
1001A19	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. S.W pipe lines upto 225 mm dia.	RM	30.25	0
1001A20(i)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Upto 150 mm dia	RM	127.6	0

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S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1001A20(ii)	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Above 150 and upto 300 mm dia	RM	169.60	0
1001A20(iii))	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. C.I pipes including earthwork excavation, breaking lead caulked joints, melt-ing of lead and making into blocks, refilling trenches after taking out the pipes etc. Above 300 mm dia	RM	220.1	0
1001A21(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. C.I sluice valve. Upto 150 mm dia	EA	100.45	0
1001A21(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. C.I sluice valve. Above 150 mm dia	EA	349.15	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 Engineer-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 Engineer-in-charge. Kerb stone	RM	17.85	0

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S R Item	DESCRPITION	Unit	RATE (Rs)	Cement Consumption kg/ unit
1001A33	Bituminous road	M3	376.20	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 Engineer-in-charge. W.B.M /W.M.M road.	M3	233.2	0
0120	Bailing or pumping out water from trenches, foundations etc., at all depths wherever necessary as per standard specifications.	Hour	65.05	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 bailing or pumping out water during excavation due to subsoil water, rain etc. All kinds of soil except rock	M3	138.4	0
0102B	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Ordinary rock	M3	221.85	0

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S R Item	DESCRPTION	Unit	RATE (Rs)	Cement Consumption kg/ unit
0102C	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (requiring blasting)	M3	339.9	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 bailing or pumping out water during excavation due to subsoil water, rain etc. Hard rock (blasting prohibited)	M3	451.8	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 includes 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
0111	Supply and spreading/filling with stone dust complying with standard specifications.	M3	250.4	0
0129	Hire charges for engaging earth moving machinery (Hydraulic Excavator) to attend to channeling works at river bed, pipe line burst works, cleaning the areas including uprooting thorny plants/heavy jungles/trees etc.of all heights and leveling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire, fuel, operation charges, to and fro charges for machinery, all labour and all other incidentals etc., complete.	Hour	1100	0
01532	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 & regulations, all as per instructions of Engineer-in-charge.	EA	330	0

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.

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