

Validate Print Help

**Item Wise BoQ**

Tender Inviting Authority: Infra Projects Department, Alcock Yard, MDL

Name of Work: Replacement of existing Compressed Air and Salt Water Pipelines in MDL Yards, Mumbai

Contract No: 180000042

Bidder Name :								
PRICE SCHEDULE								
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Unit Rate in Figures To be entered by the Bidder	Goods & Service Tax	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	53	54	55
1	Earth work in Excavation (including for foundation) by mechanical means/ manual means in all types of soils, such as Earth, Marine Clay, Marshy Land, Running Sand, Garbage, Slush, Murum, Rock Boulders, RCC boulders, any type of road layer etc. as directed by Engineer in-charge. The rate includes pumping out water if required, removing the rank vegetation and refilling the excavated materials wherever required within lead of 150 mtr as directed including leveling, ramming etc and removing the surplus excavated materials to municipal dumping ground at any distance as directed. The rate also includes supporting public utilities such as cables, drains services pipes water mains, but shall not include the cost of shoring. Where unshored trenches are allowed slope as specified shall be given. (cutting of MS plates & old RCC foundation coming during excavation shall be paid separately.) Depth up to 1.5 m	450.00	Cum			0.0000	0.00	INR Zero Only
2	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).Depth exceeding 1.5 m but not exceeding 3 m	425.00	Sqm			0.0000	0.00	INR Zero Only
3	Providing and laying dry rubble stone packing of specified thickness, hand set in regular lines, interstices being filled in with small pieces of stones/ murrum , thoroughly rammed , consolidated and watered complete as directed and specified.	75.00	Cum			0.0000	0.00	INR Zero Only
4	Pumping out water from trenches, pits etc upto 4 mtrs. Depth from ground level and discharging of the water through hose to the nearest water gully/manhole/drain complete as directed (Pumping capacity should not be less than 3 litres per second) Note: This item may be operated in areas other than excavation areas where puddles of water is noticed during execution of work is in progress solely at the discretion to the engineer-in-charge.	5.00	Pump working hour			0.0000	0.00	INR Zero Only
5	The work of demolishing, cutting down, dismantling, etc. includes propping wherever required as directed, stacking the removable material as detailed in individual items and carting away all unserviceable materials and debris from site. The amount should include cost for carrying out any other unforeseen items required for the proper execution of the work. The contractor will have to put up a proper and sufficient hoarding, screen and fence during the time as may be necessary for the safety and convenience of the inmates of the existing buildings and maintain the same in the good condition during demolition and wherever necessary cause such hoarding or fence to be well lit during the night to prevent accidents. Contractor will have to make good without any extra payment any damage done during construction. Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge. Disposal shall be paid separately.	10.00	Cum			0.0000	0.00	INR Zero Only

6	The work of demolishing, cutting down, dismantling, etc. includes propping wherever required as directed, stacking the removable material as detailed in individual items and carting away all unserviceable materials and debris from site. The amount should include cost for carrying out any other unforeseen items required for the proper execution of the work. The contractor will have to put up a proper and sufficient hoarding, screen and fence during the time as may be necessary for the safety and convenience of the inmates of the existing buildings and maintain the same in the good condition during demolition and wherever necessary cause such hoarding or fence to be well lit during the night to prevent accidents. Contractor will have to make good without any extra payment any damage done during construction. Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer -in -charge.	10.00	Sqm		0.0000	0.00	INR Zero Only
7	The work of demolishing, cutting down, dismantling, etc. includes propping wherever required as directed, stacking the removable material as detailed in individual items and carting away all unserviceable materials and debris from site. The amount should include cost for carrying out any other unforeseen items required for the proper execution of the work. The contractor will have to put up a proper and sufficient hoarding, screen and fence during the time as may be necessary for the safety and convenience of the inmates of the existing buildings and maintain the same in the good condition during demolition and wherever necessary cause such hoarding or fence to be well lit during the night to prevent accidents. Contractor will have to make good without any extra payment any damage done during construction. Dismantling and removing lime or plain cement concrete with all leads & lifts including carting away debris etc. complete as directed.Disposal shall be paid separately.	10.00	Cum		0.0000	0.00	INR Zero Only
8	The work of demolishing, cutting down, dismantling, etc. includes propping wherever required as directed, stacking the removable material as detailed in individual items and carting away all unserviceable materials and debris from site. The amount should include cost for carrying out any other unforeseen items required for the proper execution of the work. The contractor will have to put up a proper and sufficient hoarding, screen and fence during the time as may be necessary for the safety and convenience of the inmates of the existing buildings and maintain the same in the good condition during demolition and wherever necessary cause such hoarding or fence to be well lit during the night to prevent accidents. Contractor will have to make good without any extra payment any damage done during construction. Cutting down masonry work of any size and shape in lime or cement mortar including plaster etc. complete as directed. Rate shall include the carting away of the material within 50 metres lead as per direction of Engineer - in- charge.Disposal shall be paid separately.	10.00	Cum		0.0000	0.00	INR Zero Only
9	The work of demolishing, cutting down, dismantling, etc. includes propping wherever required as directed, stacking the removable material as detailed in individual items and carting away all unserviceable materials and debris from site. The amount should include cost for carrying out any other unforeseen items required for the proper execution of the work. The contractor will have to put up a proper and sufficient hoarding, screen and fence during the time as may be necessary for the safety and convenience of the inmates of the existing buildings and maintain the same in the good condition during demolition and wherever necessary cause such hoarding or fence to be well lit during the night to prevent accidents. Contractor will have to make good without any extra payment any damage done during construction. Dismantling steel work in trusses, rafters, purlins, girders, rails etc and stacking within the premises as directed.Carriage of material by mechanical transport including loading, unloading and stacking.Disposal shall be paid separately.Taking material to south yard for weighing and stacking in designated steel scrap bin in MDL premises	500.00	Kg		0.0000	0.00	INR Zero Only

10	<p>The work of demolishing, cutting down, dismantling, etc. includes propping wherever required as directed, stacking the removable material as detailed in individual items and carting away all unserviceable materials and debris from site. The amount should include cost for carrying out any other unforeseen items required for the proper execution of the work. The contractor will have to put up a proper and sufficient hoarding, screen and fence during the time as may be necessary for the safety and convenience of the inmates of the existing buildings and maintain the same in the good condition during demolition and wherever necessary cause such hoarding or fence to be well lit during the night to prevent accidents. Contractor will have to make good without any extra payment any damage done during construction.</p> <p>Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.</p>	30.00	Cum		0.0000	0.00	INR Zero Only
11	<p>Providing and Laying in foundation bedding, backing or steps upto plinth level etc. with cement concrete in M-15 grade including formwork, curing, vibrating etc. complete as directed.</p>	35.00	Cum		0.0000	0.00	INR Zero Only
12	<p>Proving and casting in situ M-30 grade RCC including formwork, curing, vibrating excluding reinforcement etc. complete as directed.</p> <p><b>Notes :</b> 1) The rates shall include the cost of complete work including mix design, site laboratory equipment, centring, form work, placing, vibrating, tamping, curing, roughening the exposed surfaces for receiving plaster/ finishing, reinforcement will be paid for separately, unless otherwise specified. The centring shall be only in steel scaffolding &amp; adjustable steel props.</p> <p>2) The concrete shall be machine mixed. Use of mechanical vibrator shall be made for all R.C.C. work wherever directed. All joints and gaps in the form work shall be covered with water proof papers as directed and full water proofing paper shall be used for casting the terrace/floor slabs and sanitary blocks at every floor. Precast cement mortar (1:2) cover blocks or approved plastic cover blocks shall be used for all beams, slabs, columns and footing as directed. R.C.C. slabs in sanitary blocks, washing places, bath rooms and nahani slab portions must be sunk as per drawings for which nothing extra will be paid.</p> <p>3) The rates of R.C.C. items are for floor height upto 3 mt. in single stage centring</p>	55.00	Cum		0.0000	0.00	INR Zero Only
13	<p>Proving and casting in situ M-30 grade RCC including formwork, curing, vibrating excluding reinforcement etc. complete as directed.</p> <p><b>Notes :</b> 1) The rates shall include the cost of complete work including mix design, site laboratory equipment, centring, form work, placing, vibrating, tamping, curing, roughening the exposed surfaces for receiving plaster/ finishing, reinforcement will be paid for separately, unless otherwise specified. The centring shall be only in steel scaffolding &amp; adjustable steel props.</p> <p>2) The concrete shall be machine mixed. Use of mechanical vibrator shall be made for all R.C.C. work wherever directed. All joints and gaps in the form work shall be covered with water proof papers as directed and full water proofing paper shall be used for casting the terrace/floor slabs and sanitary blocks at every floor. Precast cement mortar (1:2) cover blocks or approved plastic cover blocks shall be used for all beams, slabs, columns and footing as directed. R.C.C. slabs in sanitary blocks, washing places, bath rooms and nahani slab portions must be sunk as per drawings for which nothing extra will be paid.</p> <p>3) The rates of R.C.C. items are for floor height upto 3 mt. in single stage centring</p>	65.00	Cum		0.0000	0.00	INR Zero Only
14	<p>Proving and casting in situ M-30 grade RCC including formwork, curing, vibrating excluding reinforcement etc. complete as directed.</p> <p><b>Notes :</b> 1) The rates shall include the cost of complete work including mix design, site laboratory equipment, centring, form work, placing, vibrating, tamping, curing, roughening the exposed surfaces for receiving plaster/ finishing, reinforcement will be paid for separately, unless otherwise specified. The centring shall be only in steel scaffolding &amp; adjustable steel props.</p> <p>2) The concrete shall be machine mixed. Use of mechanical vibrator shall be made for all R.C.C. work wherever directed. All joints and gaps in the form work shall be covered with water proof papers as directed and full water proofing paper shall be used for casting the terrace/floor slabs and sanitary blocks at every floor. Precast cement mortar (1:2) cover blocks or approved plastic cover blocks shall be used for all beams, slabs, columns and footing as directed. R.C.C. slabs in sanitary blocks, washing places, bath rooms and nahani slab portions must be sunk as per drawings for which nothing extra will be paid.</p> <p>3) The rates of R.C.C. items are for floor height upto 3 mt. in single stage centring including form work.</p>	40.00	Cum		0.0000	0.00	INR Zero Only

15	<p>Proving and casting in situ M-30 grade RCC including formwork, curing, vibrating excluding reinforcement etc. complete as directed.</p> <p>Notes : 1) The rates shall include the cost of complete work including mix design, site laboratory equipment, centring, form work, placing, vibrating, tamping, curing, roughening the exposed surfaces for receiving plaster/ finishing, reinforcement will be paid for separately, unless otherwise specified. The centring shall be only in steel scaffolding &amp; adjustable steel props.</p> <p>2) The concrete shall be machine mixed. Use of mechanical vibrator shall be made for all R.C.C. work wherever directed. All joints and gaps in the form work shall be covered with water proof papers as directed and full water proofing paper shall be used for casting the terrace/floor slabs and sanitary blocks at every floor. Precast cement mortar (1:2) cover blocks or approved plastic cover blocks shall be used for all beams, slabs, columns and footing as directed. R.C.C. slabs in sanitary blocks, washing places, bath rooms and nahani slab portions must be sunk as per drawings for which nothing extra will be paid.</p> <p>3) The rates of R.C.C. items are for floor height upto 3 mt. in single stage centring</p>	12.00	Cum		0.0000	0.00	INR Zero Only
16	<p>Proving and casting in situ M-30 grade RCC including formwork, curing, vibrating excluding reinforcement etc. complete as directed.</p> <p>Notes : 1) The rates shall include the cost of complete work including mix design, site laboratory equipment, centring, form work, placing, vibrating, tamping, curing, roughening the exposed surfaces for receiving plaster/ finishing, reinforcement will be paid for separately, unless otherwise specified. The centring shall be only in steel scaffolding &amp; adjustable steel props.</p> <p>2) The concrete shall be machine mixed. Use of mechanical vibrator shall be made for all R.C.C. work wherever directed. All joints and gaps in the form work shall be covered with water proof papers as directed and full water proofing paper shall be used for casting the terrace/floor slabs and sanitary blocks at every floor. Precast cement mortar (1:2) cover blocks or approved plastic cover blocks shall be used for all beams, slabs, columns and footing as directed. R.C.C. slabs in sanitary blocks, washing places, bath rooms and nahani slab portions must be sunk as per drawings for which nothing extra will be paid.</p> <p>3) The rates of R.C.C. items are for floor height upto 3 mt. in single stage centring including form work.</p>	5.00	Cum		0.0000	0.00	INR Zero Only
17	<p>Proving and casting in situ M-30 grade RCC including formwork, curing, vibrating excluding reinforcement etc. complete as directed.</p> <p>Notes : 1) The rates shall include the cost of complete work including mix design, site laboratory equipment, centring, form work, placing, vibrating, tamping, curing, roughening the exposed surfaces for receiving plaster/ finishing, reinforcement will be paid for separately, unless otherwise specified. The centring shall be only in steel scaffolding &amp; adjustable steel props.</p> <p>2) The concrete shall be machine mixed. Use of mechanical vibrator shall be made for all R.C.C. work wherever directed. All joints and gaps in the form work shall be covered with water proof papers as directed and full water proofing paper shall be used for casting the terrace/floor slabs and sanitary blocks at every floor. Precast cement mortar (1:2) cover blocks or approved plastic cover blocks shall be used for all beams, slabs, columns and footing as directed. R.C.C. slabs in sanitary blocks, washing places, bath rooms and nahani slab portions must be sunk as per drawings for which nothing extra will be paid.</p> <p>3) The rates of R.C.C. items are for floor height upto 3 mt. in single stage centring including form work.</p>	40.00	Cum		0.0000	0.00	INR Zero Only
18	<p>Providing and fixing in position reinforcement of all dia for RCC piles, pile caps, footings, foundations, slabs, columns, beams, canopies, staircase, newels, chajjas, lintels, pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or welding and supporting as required at all locations and height all labour and materials etc. complete.</p> <p>Wastage in cutting will not be paid for, only steel actually fixed in position will be paid by linear measurement including hooks and bends. No payment will be made for binding wires, pins, spacers and laps other than standard laps. Authorised/ Standard laps and Chairs as per BIS and as directed by engineer in-charge shall be payable.</p> <p>i) HYSD (Fe 500) - MS round bars</p>	1.00	MT		0.0000	0.00	INR Zero Only

19	<p>Providing and fixing in position reinforcement of all dia for RCC piles, pile caps, footings, foundations, slabs, columns, beams, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules including cutting, bending, hooking the bars, binding with wires or welding and supporting as required at all locations and height all labour and materials etc. complete.</p> <p>Wastage in cutting will not be paid for. only steel actually fixed in position will be paid by linear measurement including hooks and bends. No payment will be made for binding wires, pins, spacers and laps other than standard laps. Authorised/ Standard laps and Chairs as per BIS and as directed by engineer in-charge shall be payable.</p> <p>i) HYSD (Fe 500) -HYSD bars</p>	25.00	MT		0.0000	0.00	INR Zero Only
20	<p>Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , including the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</p> <p>(Note :- Minimum Cement content considered in this item is @ 330 kg/cum). All works upto plinth level - This item will be operated only whenever contractor execute RCC works with Ready Mixed concrete.</p> <p>--for raft Slab/ Pedestals</p>	5.00	Cum		0.0000	0.00	INR Zero Only
21	<p>Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , including the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</p> <p>(Note :- Minimum Cement content considered in this item is @ 330 kg/cum). All works upto plinth level - This item will be operated only whenever contractor execute RCC works with Ready Mixed concrete.</p> <p>--for shear wall</p>	5.00	Cum		0.0000	0.00	INR Zero Only
22	<p>Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , including the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</p> <p>(Note :- Minimum Cement content considered in this item is @ 330 kg/cum. ). All works upto plinth level - This item will be operated only whenever contractor execute RCC works with Ready Mixed concrete.</p> <p>--In floor slabs</p>	5.00	Cum		0.0000	0.00	INR Zero Only
23	<p>Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , including the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.</p> <p>(Note :- Minimum Cement content considered in this item is @ 330 kg/cum. ). All works upto plinth level - This item will be operated only whenever contractor execute RCC works with Ready Mixed concrete. --In beams, lintels, runner beams.</p>	5.00	Cum		0.0000	0.00	INR Zero Only

24	Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, including the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Minimum Cement content considered in this item is @ 330 kg/cum. ). All works upto plinth level - This item will be operated only whenever contractor execute RCC works with Ready Mixed concrete. -- For controlled concrete All works upto plinth level	5.00	Cum			0.0000	0.00	INR Zero Only
25	Providing and fixing Structural Steel in position (MS angles, rolled steel beams, joists and stanchions, square/ rectangle sections, MS plates, Lugs etc.) including all labour and material in hoisting, fixing bolts and nuts or by welding etc. complete, including finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete --For heavy works like column, beam etc for any height which may require lifting arrangements like crane, hydra etc.	5.00	MT			0.0000	0.00	INR Zero Only
26	Providing and fixing Structural Steel in position (MS angles, rolled steel beams, joists and stanchions, square/ rectangle sections, MS plates, Lugs etc.) including all labour and material in hoisting, fixing bolts and nuts or by welding etc. complete, including finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. ---For inserts including Hold fasts (angles, plates etc)	1000.00	Kg			0.0000	0.00	INR Zero Only
27	Providing and fixing Structural Steel in position (MS angles, rolled steel beams, joists and stanchions, square/ rectangle sections, MS plates, Lugs etc.) including all labour and material in hoisting, fixing bolts and nuts or by welding etc. complete, including finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. --For gratings	3.00	MT			0.0000	0.00	INR Zero Only
28	Providing and Laying grouting with ACC shrincomp compound or Conbextra GP-II (Fosroc Make or equivalent) or high strength nonshrink grout etc. all as per manufacturers specification and approved by engineer in charge/Client.	1000.00	Kg			0.0000	0.00	INR Zero Only
29	Providing and applying of Epoxy bonding of new concrete to old concrete surface using EPI BOND Polymer. Approved make - sunanda or fosroc or BASF or Krishna Conchem or equivalent - as approved by engineer in charge.	250.00	Sqm			0.0000	0.00	INR Zero Only
30	Sealing of crack/porous concrete with Epoxy Groutby injectionthrough nipples complete as per clause 2803.1. Approved make - sunanda or fosroc or BASF or Krishna Conchem or equivalent - as approved by engineer in charge.	500.00	Kgs			0.0000	0.00	INR Zero Only
31	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications including subsequent cutting/removal and sealing of the hole as necessary of nipples after completion of grouting with Cement/Epoxy	250.00	Each			0.0000	0.00	INR Zero Only
32	Sealing of cracks/porous concrete by injection process through nipples/Grouting complete as per Technical specification.--Cement grout	500.00	Kgs			0.0000	0.00	INR Zero Only
33	Providing Micro Concrete jacketing to walls of thickness upto 75 mm using Polymer modified cement premixed quartz sand aggregate packed in bags of standard manufacture, for high early strength of 40 N /mm sq.cm of approved brand. The dry product is to be mixed with 12.5% water by weight, along with washed and poured into rigid form work moulds & tamped properly, & cured for 3 days. [Payment is to be made by weight premixed of micro concrete product consumed as per site register records. No extra payment shall be made for shuttering or any other material. Approved make - sunanda or fosroc or BASF or Krishna Conchem or equivalent - as approved by engineer in charge.	100.00	Kg			0.0000	0.00	INR Zero Only
34	Chipping /removing loose concrete upto reinforcement bars, without damaging the reinforcement, removing all the loose materials and to make all the exposed surfaces free from oil, dust and all impurities etc complete. Disposal shall be paid separately.	110.00	sqm			0.0000	0.00	INR Zero Only

35	Removing corrosion of steel reinforcement by mechanical means like wire brushing, chipping to remove loose rust and then applying rust removal solution by using brush application, leaving the surface for at least 15 to 30 minutes, then removing loose materials by scrubbing or with brush and applying polymer bond to the old concrete surface before applying Polymer mortar.	110.00	sqm			0.0000	0.00	INR Zero Only
36	Providing and applying Polymer modified cement mortar of average thickness 15mm using Polymer in one or more layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement sand plaster.	90.00	sqm			0.0000	0.00	INR Zero Only
37	Providing and applying Polymer modified cement mortar of average thickness 30mm using Polymer in two layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement sand plaster.	25.00	sqm			0.0000	0.00	INR Zero Only
38	Constructing of chambers of required internal dimensions of 900x900mm upto 1000mm depth as detailed in drawings with provision to place precast cover and frame fixed over 100mm thick RCC coping in M-15 cement concrete provided with MS reinforcement of 10mm dia rods at 100mm centre both ways and including painting the frame, cover and steps with three coats of anti corrosive bitumastic paint all complete as per specifications. -with brick works - for height up to 1000 mm	34.00	No			0.0000	0.00	INR Zero Only
39	Providing and applying protective paint consisting of two coats of coat tar epoxy paint over one coat of primer of approved quality and make to the external surfaces of concrete structures to be buried under the soil etc.complete as specified and directed.	450.00	Sqm			0.0000	0.00	INR Zero Only
40	Providing at the site of work and lowering, laying and jointing RCC NP2 class pipes conforming to IS:458-1988 in prepared trenches in grade and level, bedding cement mortar in 1:4, including hoisting , making rubber ring/coller joints in cement mortar 1:1, including cost of collar/rubber rin, jointing material like cement,sand etc and hydraulic testing of the pipes at factory as well as on site as per the stipulation in relevant IS code etc. complete.--150 mm dia	35.00	metre			0.0000	0.00	INR Zero Only
41	Providing at the site of work and lowering, laying and jointing RCC NP2 class pipes conforming to IS:458-1988 in prepared trenches in grade and level, bedding cement mortar in 1:4, including hoisting , making rubber ring/coller joints in cement mortar 1:1, including cost of collar/rubber rin, jointing material like cement,sand etc and hydraulic testing of the pipes at factory as well as on site as per the stipulation in relevant IS code etc. complete.--250 mm dia	160.00	metre			0.0000	0.00	INR Zero Only
42	Providing at the site of work and lowering, laying and jointing RCC NP2 class pipes conforming to IS:458-1988 in prepared trenches in grade and level, bedding cement mortar in 1:4, including hoisting , making rubber ring/coller joints in cement mortar 1:1, including cost of collar/rubber rin, jointing material like cement,sand etc and hydraulic testing of the pipes at factory as well as on site as per the stipulation in relevant IS code etc. complete.--300 mm dia	50.00	metre			0.0000	0.00	INR Zero Only
43	Providing at the site of work and lowering, laying and jointing RCC NP2 class pipes conforming to IS:458-1988 in prepared trenches in grade and level, bedding cement mortar in 1:4, including hoisting , making rubber ring/coller joints in cement mortar 1:1, including cost of collar/rubber rin, jointing material like cement,sand etc and hydraulic testing of the pipes at factory as well as on site as per the stipulation in relevant IS code etc. complete.--450 mm dia	20.00	metre			0.0000	0.00	INR Zero Only
44	Providing and Fixing water tight Extra Heavy Duty FRP Manhole cover having 40 MT load carrying capacity (ractangular or circular) with rubber gasket including frame conforming to IS : 1726-1974 (Part I - VII) with locking arrangement complete.	100.00	sqm			0.0000	0.00	INR Zero Only
45	Providing and fixing 100 mm diameter and 60cm long rain water spout including cement mortar 1:4 (1 cement: 4 fine sand) PVC spout	50.00	each			0.0000	0.00	INR Zero Only
46	Providing and fixing chlorinated Polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling, fixing the pipe with clamps at 1.0 m spacing if required as per site condition and testing of joints completes as per direction of Engineer in Charge. External work--75 mm nominal inner dia Pipes	40.00	RM			0.0000	0.00	INR Zero Only
47	Providing and fixing chlorinated Polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling, fixing the pipe with clamps at 1.0 m spacing if required as per site condition and testing of joints completes as per direction of Engineer in Charge. External work.--100 mm nominal inner dia Pipes	40.00	RM			0.0000	0.00	INR Zero Only

48	Providing and fixing chlorinated Polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling, fixing the pipe with clamps at 1.0 m spacing if required as per site condition and testing of joints completes as per direction of Engineer in Charge. External work.--150 mm nominal inner dia Pipes	40.00	RM			0.0000	0.00	INR Zero Only
49	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete. --150 mm diameter	20.00	RM			0.0000	0.00	INR Zero Only
50	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete. --200 mm diameter	10.00	RM			0.0000	0.00	INR Zero Only
51	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete. --300 mm diameter	10.00	RM			0.0000	0.00	INR Zero Only
52	Earth work in Excavation (including for foundation) by mechanical means/ manual means in all types of soils, such as Earth, Marine Clay, Marshy Land, Running Sand, Garbage, Slush, Murum, Rock Boulders, RCC boulders etc. as directed by Engineer in-charge. The rate includes pumping out water if required, removing the rank vegetation and refilling the excavated materials wherever required within lead of 150 mtr as directed including leveling, ramming etc and removing the surplus excavated materials to municipal dumping ground at any distance as directed. The rate also includes supporting public utilities such as cables, drains services pipes water mains, but shall not include the cost of shoring. Where unshored trenches are allowed slope as specified shall be given. (cutting of MS plates & old RCC foundation coming during excavation shall be paid separately) --Above 1.5 m up to 3.0 m depth	90.00	Cum			0.0000	0.00	INR Zero Only
53	Excavation (including for foundation) by mechanical means/ manual means in all types of rocks as directed by Engineer in-charge. The rate includes pumping out water if required, removing the rank vegetation and refilling the excavated materials wherever required within lead of 150 mtr as directed including leveling, ramming etc and removing the surplus excavated materials to municipal dumping ground at any distance as directed. The rate also includes supporting public utilities such as cables, drains services pipes water mains, but shall not include the cost of shoring. (Cutting of MS plates & old RCC foundation coming during excavation shall be paid separately) --Up to 1.5 m depth	25.00	Cum			0.0000	0.00	INR Zero Only
54	Excavation (including for foundation) by mechanical means/ manual means in all types of rocks as directed by Engineer in-charge. The rate includes pumping out water if required, removing the rank vegetation and refilling the excavated materials wherever required within lead of 150 mtr as directed including leveling, ramming etc and removing the surplus excavated materials to municipal dumping ground at any distance as directed. The rate also includes supporting public utilities such as cables, drains services pipes water mains, but shall not include the cost of shoring. (Cutting of MS plates & old RCC foundation coming during excavation shall be paid separately) --Above 1.5 m up to 3.0 m depth	15.00	Cum			0.0000	0.00	INR Zero Only
55	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	100.00	Cum			0.0000	0.00	INR Zero Only
56	Providing and applying TACK COAT with CATIONIC BITUMEN EMULSION (RS) @ 0.2 to 0.25 Kg. of Sq.mt. over prepared surface to receive bituminous mix by applying TACK COAT with mechanical spray bitumen, including cleaning of road surface etc. completed, as directed For NORMAL BITUMINOUS SURFACES & the tack coat shall be left to cure until all the volatiles have evaporated before any subsequent construction is started, which is indicated by change in colour from brown to black(As per New Road Specifications Clause No. 314, curing as per 314.3.4)	100.00	Sqm			0.0000	0.00	INR Zero Only



57	Providing and Laying Asphalt Road with following layers 1. 250 mm thick GSB 2. 250 mm thick Granular base - WMM 3. 100 mm thick DBM - VG - 30 (will be executed in two layers) 4. 50 mm thick BC - PMB - 40 All layers shall be constructed conforming to IRC Note - Tack coats required in Asphalt layers shall be part of this item. as per above item specifications, three layers of tack coat will be required to complete the layers as per IRC procedure.	25.00	Sqm			0.0000	0.00	INR Zero Only
58	Providing & fixing in position anchor fasteners in concrete of HILTI make & quality, & fixing them in position at correct location, lines & levels as per specification and as directed & instructed by Engineer-in-charge/ Client including making good the concrete/masonry surface after inserting fastener. (All materials & accessories required shall be provided by contractor)--12 mm dia - 150-200 mm long	20.00	No			0.0000	0.00	INR Zero Only
59	Providing & fixing in position anchor fasteners in concrete of HILTI make & quality, & fixing them in position at correct location, lines & levels as per specification and as directed & instructed by Engineer-in-charge/ Client including making good the concrete/masonry surface after inserting fastener. (All materials & accessories required shall be provided by contractor)--16 mm dia - 150-200 mm long	20.00	No			0.0000	0.00	INR Zero Only
60	Providing & fixing in position anchor fasteners in concrete of HILTI make & quality, & fixing them in position at correct location, lines & levels as per specification and as directed & instructed by Engineer-in-charge/ Client including making good the concrete/masonry surface after inserting fastener. (All materials & accessories required shall be provided by contractor)--20 mm dia - 150-200 mm long	20.00	No			0.0000	0.00	INR Zero Only
61	Making core drills ( cutting ) with cylindrical cutting tools in concrete viz slab, beam, column, pardi etc as directed by Engineer-in-charge/ Owner. --50 mm dia - depth upto 450 mm	2.00	No			0.0000	0.00	INR Zero Only
62	Making core drills ( cutting ) with cylindrical cutting tools in concrete viz slab, beam, column, pardi etc as directed by Engineer-in-charge/ Owner. --75 mm dia - depth upto 450 mm	5.00	No			0.0000	0.00	INR Zero Only
63	Making core drills ( cutting ) with cylindrical cutting tools in concrete viz slab, beam, column, pardi etc as directed by Engineer-in-charge/ Owner --100 mm dia - depth upto 450 mm	3.00	No			0.0000	0.00	INR Zero Only
64	Making core drills ( cutting ) with cylindrical cutting tools in concrete viz slab, beam, column, pardi etc as directed by Engineer-in-charge/ Owner. --125 mm dia - depth upto 450 mm	5.00	No			0.0000	0.00	INR Zero Only
65	Making core drills ( cutting ) with cylindrical cutting tools in concrete viz slab, beam, column, pardi etc as directed by Engineer-in-charge/ Owner. --150 mm dia - depth upto 450 mm	5.00	No			0.0000	0.00	INR Zero Only
66	Making core drills ( cutting ) with cylindrical cutting tools in concrete viz slab, beam, column, pardi etc as directed by Engineer-in-charge/ Owner. --200 mm dia - depth upto 450 mm	5.00	No			0.0000	0.00	INR Zero Only
67	Making core drills ( cutting ) with cylindrical cutting tools in concrete viz slab, beam, column, pardi etc as directed by Engineer-in-charge/ Owner. --300 mm dia - depth upto 450 mm	5.00	No			0.0000	0.00	INR Zero Only
68	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	80.00	Sqm			0.0000	0.00	INR Zero Only
69	Painting with aluminium paint of approved brand and manufacture to give an even shade .Two or more coats on new work With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	10.00	Sqm			0.0000	0.00	INR Zero Only
70	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	10.00	Sqm			0.0000	0.00	INR Zero Only
71	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.--On steel work	5.00	Sqm			0.0000	0.00	INR Zero Only
72	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.--On concrete work	5.00	Sqm			0.0000	0.00	INR Zero Only

73	Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	10.00	Sqm		0.0000	0.00	INR Zero Only
74	Dressing of electrical cabel of all sizes inside trench and out side trench manually or by mechanical means	500.00	RM		0.0000	0.00	INR Zero Only
75	Providing & erecting Hot deeped Galvanised Ladder type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150mm width & 100 mm height comprisig all erquired standard accessories.	800.00	RM		0.0000	0.00	INR Zero Only
76	Providing & erecting Hot deeped Galvanised Ladder type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 300mm width & 100 mm height comprisig all erquired standard accessories.	800.00	RM		0.0000	0.00	INR Zero Only
77	Cleaning of existing trench including removal of debries, soil etc. Disposal shall be paid separately.	100.00	metre		0.0000	0.00	INR Zero Only
78	Providing and fixing in position expansion joints with plain premoulded bituminuous filler 25mm thick including fixing10 gauge moulded galvanised iron sheet 38 cm wide etc.complete as specified and directed.	200.00	sqm		0.0000	0.00	INR Zero Only
79	For Pipe 15 NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	469.00	Rm		0.0000	0.00	INR Zero Only
80	For Pipe 20NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	193.00	Rm		0.0000	0.00	INR Zero Only
81	For Pipe 25NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	816.00	Rm		0.0000	0.00	INR Zero Only
82	For Pipe 40NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	972.00	Rm		0.0000	0.00	INR Zero Only
83	For Pipe 50NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	947.00	Rm		0.0000	0.00	INR Zero Only
84	For Pipe 65NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	35.00	Rm		0.0000	0.00	INR Zero Only
85	For Pipe 80NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	2169.00	Rm		0.0000	0.00	INR Zero Only
86	For Pipe 100NB -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	556.00	Rm		0.0000	0.00	INR Zero Only
87	For Pipe 125NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	833.00	Rm		0.0000	0.00	INR Zero Only
88	For Pipe 150NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	693.00	Rm		0.0000	0.00	INR Zero Only
89	For Pipe 200NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	334.00	Rm		0.0000	0.00	INR Zero Only
90	For Pipe 250NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	10.00	Rm		0.0000	0.00	INR Zero Only
91	For Pipe 300NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	12.00	Rm		0.0000	0.00	INR Zero Only
92	Pipe--SFITC of GI Pipes, for size 15 NB (Seamless A106 Gr.B Sch 80 -) Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	151.00	Rm		0.0000	0.00	INR Zero Only
93	Pipe--SFITC of GI Pipes, for size 20 NB (Seamless A106 Gr.B Sch 80)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	23.00	Rm		0.0000	0.00	INR Zero Only
94	Pipe--SFITC of GI Pipes, for size 25 NB (Seamless A106 Gr.B Sch 80)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1070.00	Rm		0.0000	0.00	INR Zero Only
95	Pipe--SFITC of GI Pipes, for size 40 NB (Seamless A106 Gr.B Sch 80)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	454.00	Rm		0.0000	0.00	INR Zero Only
96	Pipe--SFITC of GI Pipes, for size 50 NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	686.00	Rm		0.0000	0.00	INR Zero Only
97	Pipe--SFITC of GI Pipes, for size 65 NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1814.00	Rm		0.0000	0.00	INR Zero Only
98	Pipe--SFITC of GI Pipes, for size 80 NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1178.00	Rm		0.0000	0.00	INR Zero Only
99	Pipe--SFITC of GI Pipes, for size 100 NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1263.00	Rm		0.0000	0.00	INR Zero Only
100	Pipe--SFITC of GI Pipes, for size 125 NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	260.00	Rm		0.0000	0.00	INR Zero Only

101	Pipe--SFTC of GI Pipes, for size 150 NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	678.00	Rm			0.0000	0.00	INR Zero Only
102	Pipe--SFTC of GI Pipes, for size 200 NB (Seamless A106 Gr.B Sch 20)- Please refer description & corresponding note in bill of quantities mentioned in tender vol-III)	312.00	Rm			0.0000	0.00	INR Zero Only
103	Pipe--SFTC of GI Pipes, for size 250 NB (Seamless A106 Gr.B Sch 20)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	266.00	Rm			0.0000	0.00	INR Zero Only
104	Pipe--SFTC of GI Pipes, for size 300 NB (Seamless A106 Gr.B Sch 20)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	58.00	Rm			0.0000	0.00	INR Zero Only
105	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 15 NB, as per tender specification-Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	14.00	RM			0.0000	0.00	INR Zero Only
106	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 25 NB, as per tender specification- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	9.00	RM			0.0000	0.00	INR Zero Only
107	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 65 NB, as per tender specification -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	70.00	RM			0.0000	0.00	INR Zero Only
108	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 80 NB, as per tender specification - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	9.00	RM			0.0000	0.00	INR Zero Only
109	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 100 NB, as per tender specification -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	130.00	RM			0.0000	0.00	INR Zero Only
110	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 125 NB, as per tender specification -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	17.00	RM			0.0000	0.00	INR Zero Only
111	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 150 NB, as per tender specification - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	147.00	RM			0.0000	0.00	INR Zero Only
112	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 200 NB, as per tender specification - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	52.00	RM			0.0000	0.00	INR Zero Only
113	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 250 NB, as per tender specification -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	12.00	RM			0.0000	0.00	INR Zero Only
114	Tape-SITC of Anti corrosion Tape for Underground GI Pipes for size 300 NB, as per tender specification - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	10.00	RM			0.0000	0.00	INR Zero Only
115	Ball Valve-SITC of Socket weld end CS Ball Valves , for size 15 NB. [Valve Make: Leader / L&T ] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	48.00	Nos			0.0000	0.00	INR Zero Only
116	Ball Valve-SITC of flanged end CS Ball Valves , for size 20 NB. [Valve Make: Leader / L&T] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4.00	Nos			0.0000	0.00	INR Zero Only
117	Ball Valve-SITC of flanged end CS Ball Valves , for size 25 NB. [Valve Make: Leader / L&T] Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	150.00	Nos			0.0000	0.00	INR Zero Only
118	Ball Valve-SITC of flanged end CS Ball Valves , for size 40 NB. [Valve Make: Leader / L&T] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	180.00	Nos			0.0000	0.00	INR Zero Only
119	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 50 NB. [Valve Make: Leader / L&T] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	25.00	Nos			0.0000	0.00	INR Zero Only
120	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 65 NB. [Valve Make: Leader / L&T] -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	43.00	Nos			0.0000	0.00	INR Zero Only
121	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 80 NB. [Valve Make: Leader / L&T] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	46.00	Nos			0.0000	0.00	INR Zero Only
122	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 100 NB. [Valve Make: Leader / L&T] - PPlease refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	36.00	Nos			0.0000	0.00	INR Zero Only

123	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 125 NB. [Valve Make: Leader / L&T] -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	12.00	Nos			0.0000	0.00	INR Zero Only
124	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 150 NB. [Valve Make: Leader / L&T] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	30.00	Nos			0.0000	0.00	INR Zero Only
125	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 200 NB. [Valve Make: Leader / L&T / Nutech] -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	10.00	Nos			0.0000	0.00	INR Zero Only
126	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 250 NB. [Valve Make: Leader / L&T / Nutech] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	8.00	Nos			0.0000	0.00	INR Zero Only
127	Gate Valve-SITC of Flanged CS Gate Valves including both side Flange / Gasket & Stud Bolts, for size 300 NB. [Valve Make: Leader / L&T / Nutech] Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	5.00	Nos			0.0000	0.00	INR Zero Only
128	NRV-SITC of Casting A 216 Gr.WCB, Wafer End of 150#, Swing type BS1868, 150NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
129	Butterfly valve-SITC of Wafer type Butterfly Valves , for size 250 NB. [Valve Make: Leader / L&T / Nutech] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
130	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 300 NB, Cartridge: imported SS, Working pressure: 16 bar -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	2.00	Nos			0.0000	0.00	INR Zero Only
131	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 150 NB, Cartridge: imported SS, Working pressure: 16 bar - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	5.00	Nos			0.0000	0.00	INR Zero Only
132	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 125 NB, Cartridge: imported SS, Working pressure: 16 bar - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	2.00	Nos			0.0000	0.00	INR Zero Only
133	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 100 NB, Cartridge: imported SS, Working pressure: 16 bar - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
134	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 80 NB, Cartridge: imported SS, Working pressure: 16 bar - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	3.00	Nos			0.0000	0.00	INR Zero Only
135	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 65 NB, Cartridge: imported SS, Working pressure: 16 bar Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	3.00	Nos			0.0000	0.00	INR Zero Only
136	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 25NB, Cartridge: imported SS, Working pressure: 16 bar - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
137	MS-SITC of Flanged End MS Moisture separator including drain assembly, for size 15NB, Cartridge: imported SS, Working pressure: 16 bar - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
138	FM-SITC of Flow meter including all assembly as required to connect piping system, for size 65 NB.(As per Specification in Tender) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	5.00	Nos			0.0000	0.00	INR Zero Only
139	FM-SITC of Flow meter including all assembly as required to connect piping system, for size 100 NB.(As per Specification in Tender) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
140	FM-SITC of Flow meter including all assembly as required to connect piping system, for size 200 NB.(As per Specification in Tender) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only

141	FM-SITC of Flow meter including all assembly as required to connect piping system, for size 300 NB etc.(As per Specification in Tender) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
142	AF-SITC of Air Filter including all Accessories as required to connect the piping system, for size of 15 NB etc.- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	2.00	Nos			0.0000	0.00	INR Zero Only
143	AF-SITC of Air Filter including all Accessories as required to connect the piping system, for size of 65 NB etc.-Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	5.00	Nos			0.0000	0.00	INR Zero Only
144	PG-SITC Pressure Gauge of Range 0-15 kg/cm <sup>2</sup> Glysrene filled white screen 3" dial, 1/4"-18 NPT Male connection centered on bottom with suitable reducer to fit with 15 NB Male nipple, Including Isolation valve of 15NB [Pressure Gauge Make: H-Guru or General Instruments] (As per Tender Drawings) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	25.00	Nos			0.0000	0.00	INR Zero Only
145	STEEL SUPPORT-Supply, Fabrication, Painting of Steel Support to be Including. - ISA , ISMC - ISMB, Steel Plate IS 2062, Others Steel material as required by Site condition (steel support shall be 2 coat epoxy painting.) Scope is including Supply & fitting Nickle coated U clamps with O2 nuts As per Pipe size -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	8000.00	Kg			0.0000	0.00	INR Zero Only
146	MANIFOLD-SITC of GI Manifold with all accessories as per attached drawing in tender specification. (MEP/PI/TD/034) [Valve Make: Leader / L&T / Nutech] [ADV Make: Hydint or Atlas Capco] [Pressure Gauge Make: H-Guru or General Instruments] Manifold With 6 tapings and 1 auto drain tapping including manifold header pipe, branch tapping, ball valve,auto drain valve assembly with Auto Drain pipe. -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	78.00	Nos			0.0000	0.00	INR Zero Only
147	MANIFOLD-SITC of GI Manifold with all accessories as per attached drawing in tender specification. (MEP/PI/TD/034) [Valve Make: Leader / L&T / Nutech][ADV Make: Hydint or Atlas Capco] [Pressure Gauge Make: H-Guru or General Instruments] Manifold With 5 tapings and 1 auto drain tapping including manifold header pipe, branch tapping, ball valve,auto drain valve assembly with auto Drain pipe. -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	75.00	Nos			0.0000	0.00	INR Zero Only
148	MANIFOLD-SITC of GI Manifold with all accessories as per attached drawing in tender specification. (MEP/PI/TD/034) [Valve Make: Leader / L&T / Nutech] [ADV Make: Hydint or Atlas Capco] [Pressure Gauge Make: H-Guru or General Instruments] Manifold With 4 tapings and 1 auto drain tapping including manifold header pipe, branch tapping, ball valve,auto drain valve assembly with auto Drain pipe. - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	26.00	Nos			0.0000	0.00	INR Zero Only
149	MANIFOLD-SITC of GI Manifold with all accessories as per attached drawing in tender specification. [Valve Make: Leader / L&T / Nutech] [ADV Make: Hydint or Atlas Capco] [Pressure Gauge Make: H-Guru or General Instruments] Manifold With 3 tapings and 1 auto drain tapping including manifold header pipe, branch tapping, ball valve,auto drain valve assembly with auto Drain pipe. -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	98.00	Nos			0.0000	0.00	INR Zero Only
150	MANIFOLD-SITC of GI Manifold with all accessories as per attached drawing in tender specification. (MEP/PI/TD/034) [Valve Make: Leader / L&T / Nutech] [ADV Make: Hydint or Atlas Capco] [Pressure Gauge Make: H-Guru or General Instruments] Manifold With 2 tapings and 1 auto drain tapping including manifold header pipe, branch tapping, ball valve,auto drain valve assembly with auto Drain pipe. - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	40.00	Nos			0.0000	0.00	INR Zero Only

151	AIR RECEIVER-SITC of Air Receiver as per specification / Data Sheet - Dish End – Skirt mounted Vertical MS Pressure Vessel - 5 M3 capacity - with all accessories – Pressure Gauge, Moisture Separator cum Auto Mechanical Drain Valve, Vent Valve, Pressure Safety Valve etc as per ASME Sec-8. Note: Drawing shall be proposed by Vendor for approval. [Valve Make: Leader / L&T / Nutech] [ADV Make: Hydint or Atlas Capco] [PSV Make: Darling Muesco or Flowage] [Pressure Gauge Make: H-Guru or General Instruments] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	5.00	Nos			0.0000	0.00	INR Zero Only
152	QUICK RELEASE COUPLING-Supply and Installation of 15 NB, Quick release coupling as per MDL approved (Ref.Drwg No-MEP/PI/TD/032) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	150.00	Nos			0.0000	0.00	INR Zero Only
153	ADAPTOR/END CONNECTOR-Supply and Installation of 15 NB, End connector/Adapter as per MDL approved (Ref.Drwg No-MEP/PI/TD/032) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1311.00	Nos			0.0000	0.00	INR Zero Only
154	AIR RELEASE VALVE-SITC of Screwed type GM Air Release valve, G.I. coupling with isolation valve of 25/20 NB dia (As per Tender Drawings) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	3.00	Nos			0.0000	0.00	INR Zero Only
155	MISSLINOUS WORK-Dismantling of existing piping system (any Oxygen or Acetylene or water etc), reinstallation of existing piping, testing & commissioning, painting etc. (if required for installation of new piping system works) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4.00	LS			0.0000	0.00	INR Zero Only
156	MISSLINOUS WORK-Dismantle of Existing Equipment system i.e. Air receiver /Pumps etc. Unloading, shifting, Loading, again installed on existing place under the Supervision/ as directed by Engineer In charge - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4.00	LS			0.0000	0.00	INR Zero Only
157	<b>Note: Detailed Description for Item Nos -157 to 187:</b> Supply / Fabrication / Installation / Testing & Commissioning (SFITC) work for complete execution shall be carried out by Contractor as per technical specifications & work instructions / Tender clause and under the supervision of Concern Engineer. The rates for various items under this head shall include bends, Reducers, tees, flanges at every branch tapping, gasket, bolting, nipples, branch connection fittings & other fittings, support, steel member, civil foundation/padestral as per drawing / standard practice including pipe internally Polymer resin coating & externally Blasting & Painting as per Tender Technical specs. The rate shall include cost of jointing, welding, scaffolding & all temporary supporting for access work/ inspection/safety/ tools/tackels/ equipments/ machinery & any other required accessories for completion the works etc. <b>Note 1:</b> Its Contractor responsibility to purchase bare pipes and deliver it at coater workshop .The pipes should be as per tender specification & as per instructions of engineer incharge. The contractor has to receive the coated pipes from coater workshop and deliver it at MDL,Mumbai.The cost is inclusive of all transporation ,loading,unloading,coating. No extra charge will be paid seperatly.	6.00	RM			0.0000	0.00	INR Zero Only
158	PIPE-SFITC of Polymeric coated Pipes 200NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	6.00	RM			0.0000	0.00	INR Zero Only
159	PIPE-SFITC of Polymeric coated Pipes 150NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4072.00	RM			0.0000	0.00	INR Zero Only
160	PIPE-SFITC of Polymeric coated Pipes 125NB (Seamless A106 Gr.B Sch 40)- Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	10.00	RM			0.0000	0.00	INR Zero Only
161	PIPE-SFITC of Polymeric coated Pipes 100NB (Seamless A106 Gr.B Sch 40) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	10.00	RM			0.0000	0.00	INR Zero Only
162	PIPE-SFITC of Polymeric coated Pipes 80NB (Seamless A106 Gr.B Sch 40) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	390.00	RM			0.0000	0.00	INR Zero Only
163	PIPE-SFITC of Polymeric coated Pipes 50NB (Seamless A106 Gr.B Sch 40) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	12.00	RM			0.0000	0.00	INR Zero Only
164	PIPE-SFITC of Polymeric coated Pipes 25NB (Seamless A106 Gr.B Sch 80) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	10.00	RM			0.0000	0.00	INR Zero Only

165	PIPE-SFITC of Polymeric coated Pipes 20NB (Seamless A106 Gr.B Sch 80) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	30.00	RM			0.0000	0.00	INR Zero Only
166	TAPE-SITC of Anti corrosion Tape for Underground Polymeric coated Pipes for size 150 NB, as per tender specification. - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	139.00	RM			0.0000	0.00	INR Zero Only
167	TAPE-SITC of Anti corrosion Tape for Underground Polymeric coated Pipes for size 80 NB, as per tender specification. - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	50.00	RM			0.0000	0.00	INR Zero Only
168	BUTTE FLY VALVE-SITC of Wafer type Butterfly Valves , for size 250 NB. [Valve Make: Leader / L&T / Nutech] -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
169	BUTTE FLY VALVE-SITC of Wafer type Butterfly Valves , for size 200 NB. [Valve Make: Leader / L&T / Nutech] -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	2.00	Nos			0.0000	0.00	INR Zero Only
170	BUTTE FLY VALVE-SITC of Wafer type Butterfly Valves , for size 150 NB. [Valve Make: Leader / L&T] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	53.00	Nos			0.0000	0.00	INR Zero Only
171	BUTTE FLY VALVE-SITC of Wafer type Butterfly Valves , for size 100 NB. [Valve Make: Leader / L&T ] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	5.00	Nos			0.0000	0.00	INR Zero Only
172	BUTTE FLY VALVE-SITC of Wafer type Butterfly Valves , for size 80 NB. [Valve Make: Leader / L&T ] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4.00	Nos			0.0000	0.00	INR Zero Only
173	BUTTE FLY VALVE-SITC of Wafer type Butterfly Valves , for size 50 NB. [Valve Make: Leader / L&T ] - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	2.00	Nos			0.0000	0.00	INR Zero Only
174	BALL VALVE-SITC of Socket weld end CS Ball Valves , for size 25 NB. [Valve Make: Leader / L&T] -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4.00	Nos			0.0000	0.00	INR Zero Only
175	BALL VALVE-SITC of Socket weld end CS Ball Valves , for size 20 NB. [Valve Make: Leader / L&T] -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
176	NRV-SITC of Casting A 216 Gr.WCB, Wafer End of 150#, Swing type BS1868, 100NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4.00	Nos			0.0000	0.00	INR Zero Only
177	HYDRANT VALVE-Supplying and installing gun metal 80/63 NB dia.Single Outlet GM Hydrant Valve fitted with all accessories complete as per specification no. FP-VL/HV -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	293.00	Nos			0.0000	0.00	INR Zero Only
178	VENT VALVE-SITC of Screwed type GM Air Release valve, G.I. coupling with isolation valve of 25/20 NB dia (As per Tender Drawings) -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	18.00	Nos			0.0000	0.00	INR Zero Only
179	DRAIN VALVE-SITC of Screwed type GM Air Release valve, G.I. coupling with isolation valve of 25/20 NB dia (As per Tender Drawings) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	18.00	Nos			0.0000	0.00	INR Zero Only
180	PG-SITC Pressure Gauge of Range 0-15 kg/cm <sup>2</sup> Glysrene filled white screen 3" daial, 1/4"-18 NPT Male connection centered on bottom with suitable reducer to fit with 15 NB Male nipple, Including Isolation valve of 15NB [Pressure Gauge Make: H-Guru or General Instruments] (As per Tender Drawings) - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	4.00	Nos			0.0000	0.00	INR Zero Only
181	PG-SITC Pressure Gauge of Range 0-15 kg/cm <sup>2</sup> Glysrene filled white screen 6" daial, 1/4"-18 NPT Male connection centered on bottom with suitable reducer to fit with 15 NB Male nipple, Including Isolation valve of 15NB [Pressure Gauge Make: H-Guru or General Instruments] (As per Tender Drawings) - for Detail Item Description, Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	15.00	Nos			0.0000	0.00	INR Zero Only
182	STRAINER-Y type strainer (mfg std) 80 mesh SS304 Screen of 200 NB or 150 NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	Nos			0.0000	0.00	INR Zero Only
183	STRAINER-Y type strainer (mfg std) 80 mesh SS304 Screen of 25NB - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	2.00	Nos			0.0000	0.00	INR Zero Only

184	STEEL SUPPORT-Supply, Fabrication, Painting of Steel Support to be Including. - ISA , ISMC - ISMB - Others as required by Site condition (steel support shall be 2 coat epoxy painting.) Scope is including Supply & fitting Nickle coated U clamps with 02 nuts As per Pipe size - Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	7300.00	Kg			0.0000	0.00	INR Zero Only
185	AUTOMATION SYSTEM-Inside Pump house near Kasara wet basin if required in automation system then contractor shall be responsible for complete this all work with all tools, tackles, necessary machinery for automation system etc. - for Detail Item Description, Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	1.00	LS			0.0000	0.00	INR Zero Only
186	NAME PLATE FOR HYDRANT POST-Supply and Installation of Steel Name Plate with embossing for Each Hydrant post as directed by Engineer Incharge. - steel plate shows Hydrant No and locking with 2 bolt/nuts -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	300.00	Nos			0.0000	0.00	INR Zero Only
187	STAND POST-Supply and installtion stand post sign board near by underground /Undertrench Pipeline for indetification of service under the Supervision/ as directed By Engineer Incharge. -Please refer description & corresponding note in Bill of Quantities mentioned in tender vol-III	15.00	Nos			0.0000	0.00	INR Zero Only
<b>Total in Figures</b>						<b>0.0000</b>	<b>0.0000</b>	INR Zero Only























































































































































































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