

Schedule-B

BOQ-1					
It. No.	DESCRIPTION OF ITEM	QTY.	Unit	Tender Rate	Amount
1	Excavation for Pipeline trenches				
	Excavation for pipe line trenches for water supply, sewerage line, manhole etc. all with shoring and shuttering if required as per required gradient and line including safety provisions using site rails and stacking excavated stuff including up to all required lead cleaning the site etc. complete for all lifts and strata as specified.				
	In all sorts of soil and soft murrum				
	(a). Upto 1.50 mt depth	128625.00	Cu.m		
	(b). 1.50 mt to 3.00 mt depth	97387.50	Cu.m		
	(c). 3.00 mt to 4.50 t depth	10780.00	Cu.m		
2	Dewatering				
	In all sorts of soil and soft murrum, hard Murrum and boulders, Soft Rock, Hard Rock, upto 1.5 mt. depth from G/L.	9900.00	Cu.m		
	Extra for dewatering in all sorts of strata's, for each 1.5 mt. or part thereof beyond 1.5 mt. depth. (Water table is @ 1 m @ CH17.1 km, @ 0.5 m @ 24.3; Bore hole at every 2 km.)	17850.00	Cu.m		
3	Lowering Laying & Joining of PCCP Pipe				
	Laying/ Installation of PCCP pipe, associated fittings and accessories, etc. as per specifications, standards, drawings, other provisions of Contract and Instructions of Engineer-in-Charge, including but not limited to carrying out the following: stringing the pipeline in Standard Right-of-Use (ROU) / Right of Way (ROW), Arrangement of all additional land required for Contractor's storage, fabrication, access for construction (other than Owner provided ROU); supply of all materials,				

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consumables, equipment, labour, etc; Carrying out repairs of pipe and coating defects not attributable to Owner; Thorough internal cleaning of all pipes by suitable methods to remove debris, shots, grits etc.; Stringing of line pipes along Standard ROU/ ROW including providing straw bags, soft padding/sand padding; Lowering the pipelines in trench, adhering to all safety norms implied by the ROU/ ROW authority (as applicable); Aligning of pipes for welding and field adjustments, welding, carrying out destructive & non- destructive testing of welds required as per approved NDT specifications and providing all requisite equipment, labour, supervision, materials, consumables etc.; carrying out repairs of weld joints as required, etc.; Coating of all field weld joints of PCCP pipeline as cement lined internally & cement coated externally and field joints of PCCP pipe specials as coated/ painted on inside & outside as per the instructions of M/s GIDC & JIA, EIL, Engineer-In-Charge, & the authority.; Supply and installation of slope breaker as per specifications and drawings in steep slope areas, wherever required; Carrying out hydrostatic testing including air cleaning, flushing, filling, gauging, pressurization of complete pipeline in various test sections as approved by Engineer-In-Charge to the specified test pressure, providing all equipment, pumps, fittings, instruments, dead weight tester etc., and services, supervision, labour, consumables, arranging adequate quantity of water of suitable quality required for hydrostatic testing including supply of corrosion inhibitor, etc. as required, locating of leaks and rectification of defects attributable to Contractor, re-testing after rectification, successful completion of hydro-testing of pipeline; including all tie-in(s) with the pipeline installed by				
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	others including cutting of test header, re- beveling as required; Final clean-up and restoration of right of use/ right of way including obtaining work permits/ NOC from respective statutory authorities as required and disposal of debris, as directed by Engineer-In-Charge; Restoration of land, facilities and boundary wall etc. at associated facilities dismantled/damaged by the Contractor during construction; Obtaining work permits/ NOC from various statutory authorities having jurisdiction and complying with all stipulation/conditions/recommendation of the said authorities; Preparation of As-Built drawings, pipe-book and other records. SOR shall be read in conjunction with drawings, scope of work, specifications, standards and other provisions of contract document. All above works for buried pipeline as per following details:				
	Installation of PCCP Pipe of Nominal ID 1500 mm on Normal Strata in generally flat Terrain	24500	M		
	Site Test Pressure = 15 kg/cm ²				
	Tie in to be minimized and to be provided with 36" manways				
4	Refilling				
	Refilling the pipeline trenches incl. ramming, watering, consolidating disposal of surplus stuff as directed within a radius of 3 km.				
	(a). Refilling as directed	148842.00	Cu.m		
	(b). with selected soil brought from outside including all lead	500.00	Cu.m		
5	Supply of PCCP Pipe				
	Manufacturing, Providing and supplying of prestressed Concrete Cylinder pipes (PCCP) conforming to IS 784, Inclusive of insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores- site of work, stacking etc. complete. Length of each				

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	linepipe shall be 6m.				
	Pipe Working Pressure = 10.0 kg/cm ² Site Test pressure = 15 kg/cm ² Pipe Factory Test Pressure = 16 kg/cm ²				
	1500 mm dia nominal ID	24500.00	M		
6	Supply and Installation of MS specials for PCCP pipes				
	Supply, procurement and transportation to worksite(s)/workshop(s) including loading, unloading, handling and installation for the following materials by Contractor as per the requirement of PMS, data-sheets, scope of work, specifications and applicable addendum (if any), standards, instructions of Owner/ Engineer-in-Charge and other provisions of Contract. All Items In the pipeline other than straight pipes of standard length, such as bends, air valves and scour valve tees, etc, are classified as specials. Thickness Design as per IS 5822, Material: IS 3589 Fe410 Grade, D/t ratio <100. MS specials should be provided with concrete lining and coating of 25mm internal lining and 25mm external coating.				
	(a). MS special straight pipes (non standard length), 1500 mm ID, minimum 16mm thick	633	M		
	(b). Branch Tee unequal 1500 (minimum run side thickness 16 mm) X 200	50	Nos		
	(c). Man hole Tee unequal 1500 (minimum run side thickness 16 mm) X 900	8	Nos		
	(d). Scour Tee unequal 1500 (minimum run side thickness 16 mm) X 800	5	Nos		
	(e). Bend 5-20 degrees (minimum 16 mm thick)	56	Nos		
	(f). Bend 20-40 degrees (minimum 16 mm thick)	31	Nos		
	(g). Bend 40-60 degrees (minimum 16 mm thick)	10	Nos		
	(h). Bend 60-90 degrees (minimum 16 mm thick)	10	Nos		
7	Site Clearance				

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	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials				
	(C) By mechanical means in area of light jungle	24.500	Hectare		
8	Supply & Installation of Valves				
	Supply, procurement and transportation to worksite(s)/workshop(s) including loading, unloading, handling and installation for the following materials by the Contractor as per the requirement of data-sheet, scope of work, specifications and applicable addendum (if any), standards, instructions of Owner/Engineer-in-Charge and other provisions of Contract. Supply of all the valves (including commissioning spares (as applicable)) as per EIL Specification No. 6-44-0052 (Technical notes for valves) & their addendum (if any), Job Specifications, Datasheets & any other information, as per the following details:				
	1). Air Valves as per IS-14845				
	Manufacturing and supplying, Providing and Installing of Combination Type Temper Proof (Kinetic Air Valve)				
	To be installed at all peak elevations, with maximum 600m distance between successive valves.				
	8" (200 mm) , Body-Grey Cast Iron, Internals & Trim material: Bronze, PN 1.6	50	Nos		
	2). Gate Valves				
	Manufacturing and supplying, Providing and Installing of Gate Valves				
	8" (200 mm) gate valve for air valve isolation, Standard: API 600/ISO 10434, Body: ASTM A216 WCB with Internal FRE lining, Internals & Trim material: Bronze, Rating #150, End- flange face with 125 AARH RF as per B16.5	50	Nos		
	3). Butterfly Valves				

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	Manufacturing and supplying, Providing and Installing of Butterfly Valves				
	60 inch Butterfly valve , standard: BS EN 593, Body: ASTM A216 GR.WCB with internal epoxy lining, Internals & Trim material: Bronze, Rating #150, End-flange face with 125 AARH RF as per B16.47-A	5	Nos		
	4). Drain Valves				
	Manufacturing and supplying, Providing and Installing of Drain Valves				
	Drain valve of type two gate valve in series to be installed at lowest dips along the pipeline route				
	32" (800 mm) gate valve, Standard: API 600/ISO 10434, Body: ASTM A216 WCB with Internal FRE lining, Internals & Trim material: Bronze, Rating #150, End-flange face with 125 AARH RF as per , B16.47-A	10	Nos		
9	Supply and installation of flanges				
	Supply, procurement and transportation to worksite(s)/workshop(s) including loading, unloading, handling and installation for the following materials by Contractor as per the requirement of PMS, data-sheets, scope of work, specifications and applicable addendum (if any), standards, instructions of Owner/ Engineer-in-Charge and other provisions of Contract. Supply of flanges as per EIL Specification No. 6-71-0023, 6-71-0024, 6-44-0053 (Technical Notes for Flanges) & its addendum (if any), any other information forming the tender document, as per the following details: Works include welding, visual inspection and NDT (excluding radiography) of all weld joints by qualified work engineer/ inspector & carrying out repair of weld-joints found defective, and destructive testing (production test) of weld joint as per relevant specification and direction of EIC, including providing all requisite equipment, labour, supervision, materials, approved consumables, all				

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	facilities and personnel to process examine and interpret test results as required. Carrying out coating of all field weld joints by qualified coating insulators, including supply of approved coating materials, providing all equipments, materials and consumables necessary to carry out the job as per manufacturer's recommendation.				
	(a). ID 1500mm Flange, Raised face, 125 AARH RF, Standard: ASME B 16.47 SERIES A, Material: ASTM A516 GR.70/ ASTM A 105, #150	10	Nos		
	(b). ID 200mm Flange, PN 1.6	50	Nos		
	(c). ID 200mm Flange, 125 AARH RF, Standard: -ASME B16.5, Material: ASTM A 105, #150	100	Nos		
	(d). ID 900mm Flange, 125 AARH RF, Standard: -ASME B16.47-A, Material: ASTM A 105, #150	8	Nos		
	(e). ID 900mm Flange, Blind, 125 AARH RF, Standard: -ASME B16.47-A, Material: ASTM A 105, #150	8	Nos		
	(f). ID 800mm Flange, Blind, 125 AARH RF, Standard: -ASME B16.47-A, Material: ASTM A 105, #150	5	Nos		
	(g). ID 800mm Flange, 125 AARH RF, Standard: ASME B 16.47-A, Material: ASTM A 105, #150	15	Nos		
10	Supply and installation of gaskets				
	Supply, procurement and transportation to worksite(s)/workshop(s) including loading, unloading, handling and installation for the following materials by Contractor as per the requirement of PMS, data-sheets, scope of work, specifications and applicable addendum (if any), standards, instructions of Owner/ Engineer-in-Charge and other provisions of Contract. Supply of Gaskets as per tender & any other information forming part of the tender document, as per the following details:				
	(a). Size: 60", Type: Spiral Wound SS 316+ GRAFIL+SS316 inner ring + SS316	10	Nos		

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	outer ring, ASME B16.20-ASME B16.47-A, #150				
	(b). Size: 36", Type: Spiral Wound SS 316+ GRAFIL+SS316 inner ring + SS316 outer ring, ASME B16.20-ASME B16.47-A, #150	8	Nos		
	(c). Size: 32", Type: Spiral Wound SS 316+ GRAFIL+SS316 inner ring + SS316 outer ring, ASME B16.20-ASME B16.47-A, #150	20	Nos		
	(d). Size: 8", PN 1.6, Material shall be equivalent or superior to NONASBESTOS BS7531 GR.X.	50	Nos		
	(e). Size: 8", Type: Spiral Wound SS 316+ GRAFIL+SS316 inner ring + SS316 outer ring, ASME B16.20-ASME B16.5, #150	100	Nos		
11	Supply and installation of fasteners				
	Supply, procurement and transportation to worksite(s)/workshop(s) including loading, unloading, handling and installation for the following materials by Contractor as per the requirement of PMS, data-sheets, scope of work, specifications and applicable addendum (if any), standards, instructions of Owner/ Engineer-in-Charge and other provisions of Contract.				
	(a). Set of fasteners for 60", 150#, Bolt Stud-ASTM A193 GR.B7 (GALVANIZED); Nuts-ASTM A194 GR.2H (GALVANIZED), ASME B16.21-ASME B16.47-A	10	Sets		
	(b). Set of fasteners for 36", 150#, Bolt Stud-ASTM A193 GR.B7 (GALVANIZED); Nuts-ASTM A194 GR.2H (GALVANIZED), ASME B16.21-ASME B16.47-A	8	Sets		
	(c). Set of fasteners for 32", 150#, Bolt Stud-ASTM A193 GR.B7 (GALVANIZED); Nuts-ASTM A194 GR.2H (GALVANIZED), ASME B16.21-ASME B16.47-A	20	Sets		
	(d). Set of fasteners for 8", PN 1.6, Bolt Stud-ASTM A193 GR.B7 (GALVANIZED); Nuts-ASTM A194 GR.2H (GALVANIZED), ASME B16.21-ASME B16.5	50	Sets		
	(e). Set of fasteners for 8", 150#, Bolt Stud-ASTM A193 GR.B7 (GALVANIZED); Nuts-ASTM A194 GR.2H (GALVANIZED), ASME B16.21-ASME B16.5	100	Sets		

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12	Demolition of existing kerb stone including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar (SOR-2024-25, Sr.no. 20003B, Pg no. 152)				
	Drilling of 2050 mm dia Horizontal borehole for watermain pipeline crossing under the road including in all strata with required length incl supply and installation of Casing Pipe 2032 mm, 20 mm thick, API 5L GR.B/IS 3589, FE 450 GRADE, SAWL/SAWH with pushing etc complete for 1500 mm Nominal Internal Diameter PCCP watermain. Annular space between casing pipe and carrier pipe shall be filled with cement grout.				
	MS Casing Pipe + Water Main-1500mm ID	70	M		
13	Pushing work for Railway crossing (including supply of casing pipe)				
	Drilling of 2050mm dia Horizontal borehole for watermain pipeline under the railway tracks including all strata with required length incl supply and installation of Casing Pipe 2032 mm, 20 mm thick, API 5L GR.B/IS 3589, FE 450 GRADE, SAWL/SAWH with welding pushing etc complete Providing & fixing various size of pipe for 1500mm ID watermain of PCCP pipe for railway premises as per instruction & regulations of Railway authority & under supervision of Railway authority inclProviding, supplying & fixing of spacer at specified interval if required between Casing pipe an water main, ISI make sluice valve of required size at both side of railway boundary with construction of brickedge pavement incl C:C encasing 1:3:6 in 10mtr length of pipe at both side. Incl Providing & fixing of M.S/Iron Manhole frame with cover for valve chamber with locking arrangement etc. complete with all material labour fabrication,hydraulic testing of pipe & valve etc complete for 45mtr Length. Annular space between				

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	casing pipe and carrier pipe shall be filled with cement grout.				
	MS Casing Pipe + Water Main -1500mm ID	60	M		
14	Supply and installation of Pipes				
	Supply, procurement and transportation to worksite(s)/workshop(s) including loading, unloading, handling and installation for the following materials by Contractor as per the requirement of PMS, data-sheets, scope of work, specifications and applicable addendum (if any), standards, instructions of Owner/ Engineer-in-Charge and other provisions of Contract. Including aligning, bending, lining up, cutting and beveling(as required) of pipes, for welding & field adjustments, NDT for relevelled area etc.Works include welding, visual inspection and NDT (excluding radiography) of all weld joints by qualified work engineer/ inspector & carrying out repair of weld- joints found defective, and destructive testing (production test) of weld joint as per relevant specification and direction of EIC, including providing all requisite equipment, labour, supervision, materials, approved consumables, all facilities and personnel to process examine and interpret test results as required. Carrying out coating of all field weld joints by qualified coating insulators, including supply of approved coating materials, providing all equipments, materials and consumables necessary to carry out the job as per manufacturer's recommendation.				
	(a). Pipe, 36", 12 mm thick, IS-3589 GR. 410 Bevel end, SAWL/SAWH	24	M		
	(b). Pipe, 32", 10 mm thick, IS-3589 GR. 410 Bevel end, SAWL/SAWH	30	M		
	(c). Pipe, 8", STD Schedule, IS-3589 Gr.410 Bevel end, SAWL/SAWH	200	M		
15	River Crossing				

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Excavation and construction necessary for the installation of a pipeline, or other utility crossing a river or watercourse using the open cut method. "Receiving and taking over" of line pipes (coated / bare) from designated places of issue/dump site(s) and transportation to Contractor's stock yard/ workshop/ worksite including all safe handling, loading, unloading, etc.; transportation of all Contractor supplied materials to worksite(s), including manpower, consumables etc. Preparation of detailed construction method statements and calculations for Company approval; Complete site preparation including arranging of required land for construction purposes, preparation of pipeline launching area, etc.; String preparation including supply and application of concrete coating on pipes, repair of corrosion and concrete coating damages, NDT of welds and re-beveled area, weld repair and retest, Pre-construction surveys, Trenching to the specified depth on the banks and bed including maintenance of the trench in all types of soil/ rocky strata, all depths and all conditions of water crossings by various methods, etc. to a width to accommodate the pipeline Laying of pipeline in approved trench and across the water crossings, including Post hydro testing, providing Warning Devices (Mat/ Tape or Mesh), Backfilling of the trench including supply and padding by select backfill as required, stabilization of banks, including supply of all materials, consumables, restoration and clean up etc.; tie-in with pipeline at either banks etc.; All other works required as per drawings, scope of work, specifications, standards, calculations, method statements, other provisions of Contract documents and instruction of Engineer in Charge. All work shall be executed as per following details:	260	M		
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	Type of Protection: Concrete Weight Coating, Pipe Nominal ID 1500 mm, Pipe Wall Thickness: 103.6 mm for PCCP Pipe /(20 mm thick MS Pipe+ 25 mm internal cement lining+25 mm external cement coating), Concrete Weight Thickness 280 mm				
16	ANTI-BUOYANCY MEASURES FOR PIPELINE				
	Unit rate for additional work over and above item no 15 for supply of all consumables and materials and application of continuous concrete weight coating on pipes of all wall thicknesses except weld joints as mentioned below and/or supply of all consumables and materials in all areas of work except water-body crossings covered separately, and performing all works as per scope of work, specifications, standards and instructions of Engineer-in-Charge and other provisions of Contract document. All work shall be executed as per following details:				
	Type of Protection: Concrete Weight Coating, Pipe Nominal ID 1500 mm, Pipe Wall Thickness: 103.6 mm for PCCP Pipe /(20 mm thick MS Pipe+ 25 mm internal cement lining+25 mm external cement coating), Concrete Weight Thickness 280 mm	260	M		
17	PERMANENT MARKERS				
	Supply, fabrication and installation of following types of permanent markers along the route including all associated civil works such as excavation in all types of soil, construction of pedestals and grouting with concrete, clearing, supply and application of approved color& text and quality of primer and paint, stencil letter cutting for numbers, direction, chainage etc., restoration of area to original condition and performing all works as per drawings, scope of work, specifications, standards and instructions of Engineer-in-Charge. Note: The painting of all markers shall				

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	conform to environments specified as per scope of work and protective coating specification.				
	(a).Type of Marker Kilometer Marker	24	Nos		
	(b).Type of Marker Aerial Marker	5	Nos		
	(c).Type of Marker Pipeline Warning Marker	12	Nos		
18	Painting				
	Applying priming coat over new steel and other metal surface after and including preparing the surface by thoroughly cleaning, oil, grease, dirt and other foreign matter and scoured with brushes fine steel wood, scrapers and sand paper with ready mixed priming paint brushing red lead. This items includes supply of paints & primers also. This item includes surface preparation also.	48	Sqm		
	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleaning the surface of all dirt, dust and other foreign matter. This items includes supply of paints & primers also.	48	Sqm		
19	Supplying and coating of Epoxy coating/ PU Coating				
	Supply, procurement and transportation to worksite(s)/workshop(s) including loading, unloading, handling and coating of 100% solid high build epoxy (minimum 800 micron thick) (Duracoat/ Epigen or equivalent) or PU Coating of thickness DFT 1.5 mm (min.) by Contractor as per the requirement scope of work, specifications and, instructions of Owner/ Engineer-in-Charge and other provisions of Contract.	50	Sqm		
20	PIPELINE ROUTE SURVEY FOR ANY DETOURS				
	Carrying out topography survey which includes pipeline centre line survey, detailed route survey, soil investigation survey and cadastral	1000	M		

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	survey etc.; providing all man power, tools, tackles, materials, equipments and other support, facilities (including mobilisation and demobilization as required) necessary for the work, in accordance with requirements of Scope of Work document no. B828-000-83-44-SOW-9510 documents enclosed with the tender document and as per instructions of the Company Representative. The work includes developing & furnishing all survey drawings, alignment sheets, 3.5 m deep soil investigation at every 250 m, crossing drawings, cadastral drawings, etc.				
21	PIPELINE WARNING TAPE				
	Providing Warning Devices (Mat/Tape or Mesh) of width 2050mm, as required, installing at a height of 200 mm above the top of pipeline.	24500	M		
22	Cathodic Protection System for Coated casings				
	(a). supply, installation-connection and commissioning of 20kg (bare weight) Mg anodes pre packed with backfill material.	6	Nos		
	(b). Supply and installation of IP-55 rated Test Stations as per approved installation drawings and CP specification.	3	Nos		
	(c). supply and connection of 4 sq.mm. CP cables as per test station schedule and CP specification.	30	M		
	(d). supply and connection of 6 sq.mm. CP cables as per test station schedule and CP specification.	30	M		
	(e). supply and connection of 10 sq.mm. CP cables as per test station schedule and CP specification.	60	M		
23	ROU/ROW and Crop compensation (Replacement of Existing Pipeline at Three Locations in Jhagadiya - Kantiyajal section)				

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	ROU /ROW and crop compensation for water supply pipeline. ROU/ROW shall be carried out as per the GUJARAT INDUSTRIAL ACT, 1962. The work of this pipeline is to be executed on the land acquired under "Right of Use" permission. The payment of land rent, all compensation i.e. crops, wells, bores, buildings, properties, any of such requirements for work for the right of use permission to farmer / other affected persons/owners, NOC and other miscellaneous charges shall be borne by the contractor for the entire period of the contract. No any extra payment shall be paid by department for any compensations. Some crops once planted, gives multi-productivity for few years which compensation shall be considered during bidding. The contractor shall have to take enough precaution to see that no adjacent/ surrounding land is damaged/ obstructed/ encroached by them during the execution. Any such dispute / litigation if arise shall be the responsibility of the contractor. The contractor shall be responsible for acquiring necessary permission from the competent authority for Road / Railway / Highway / canal crossing / gas / oil / water pipeline / crossings, forest clearance, any electrical cable line crossing, Telecommunications etc. during laying of pipeline at his own cost and risk. However, only the correspondence with concerned department shall be facilitated by the department. All the statutory charges and other charges such as fees, insurance, miscellaneous charges / expenditure etc., charges for occurrence of any damages, NOC etc. for laying of pipeline below all the above mentioned crossings are to be paid by the contractor. However, the concerned department insists to pay such statutory charges through the department, such charges shall be paid by the department and such	200000	Sqm		
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	amounts shall be adjusted / recovered from the contractor's bills. If any deposit which is reimbursable only after the construction period and completion of free maintenance guarantee period shall be paid by the department. All records/documents regarding payment related to ROU, Crop compensation shall be submitted to the Authority.				
24	Structural				
	EARTH WORK (REFER SPECIFICATION NO. 6-68-0003)				
	From 0 to 1.5 m - Loose or Soft Soil	3500	Cu.m		
	Excavation for foundation up-to 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (A) Loose or soft soil				
25	From 1.5 to 3.0 m - Loose or Soft Soil	2800	Cu.m		
	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (A) Loose or soft soil				
26	From 3.0 to 5.0 m - Loose or Soft Soil	2420	Cu.m		
	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (A) Loose or soft soil				
27	From 0 to 1.5 m - Dense or Hard Soil	50	Cu.m		
	Excavation for foundation up-to 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (B) Dense or Hard soil				
28	From 1.5 to 3.0 m - Dense or Hard Soil	700	Cu.m		
	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (B) Dense or Hard soil				

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29	From 3.0 to 5.0 m - Dense or Hard Soil	600	Cu.m		
	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (B) Dense or Hard soil				
30	From 0 to 1.5 m - Soft rock not requiring Blasting	1	Cu.m		
	Excavation for foundation up-to 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (D) Soft rock not requiring Blasting				
31	From 1.5 to 3.0 m - Soft rock not requiring Blasting	1	Cu.m		
	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (D) Soft rock not requiring Blasting				
32	From 3.0 to 5.0 m - Soft rock not requiring Blasting	1	Cu.m		
	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 Meter lead. (D) Soft rock not requiring Blasting				
33	Extra for depth above 5.0 m - Loose or Soft Soil	1	Cu.m		
	Extra for additional depth more than 5.0 m for excavation for foundation including sorting out and stacking of useful materials and disposing of the excavated stuff up-to 50 m lead. (A) Loose or soft soil				
34	Extra for depth above 5.0 m - Dense or Hard Soil	1	Cu.m		
	Extra for additional depth more than 5.0 m for excavation for foundation including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 m lead. (B) Dense or Hard soil				
35	Extra for depth above 5.0 m - Soft rock not requiring Blasting	1	Cu.m		
	Extra for additional depth more than				

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	5.0 m for excavation for foundation including sorting out and stacking of useful materials and disposing off the excavated stuff up-to 50 m lead. (D) Soft rock not require Blasting				
36	Extra for disposal - Lead 50m to 100m	10	Cu.m		
	Add extra for Disposing off the excavated stuff of above items for lead of (A) 50 m to 100 m				
37	Extra for disposal - Lead 100m to 200m	10	Cu.m		
	Add extra for Disposing off the excavated stuff of above items for lead of (B) 100 m to 200 m				
38	Extra for disposal - Lead 200m to 300m	10	Cu.m		
	Add extra for Disposing off the excavated stuff of above items for lead of (C) 200 m to 300 m				
39	Backfilling after execution of work				
	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each deposited layer by ramming and watering.	4599.84	Cu.m		
40	PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. 6-68-0004)				
	PCC - Non FIM Items				
	Providing and laying cement concrete 1:5:10 (1- Cement : 5-Coarse sand : 10- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	149.99	Cu.m		
41	RCC Substructure - Non FIM Items				
	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete.	4800	Cu.m		
42	RCC Superstructures - Non FIM Item				

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	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (B) Walls, from top of foundation level up-to floor two level	10	Cu.m		
43	HYD Bars / MS Bars - Non FIM Items				
	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete up-to floor two level	170	MT		
44	Centering and Shuttering - Non FIM Items				
	Extra for Providing formwork with sheathing steel sheets so as to give a fair finish in (A) Foundations, Footings, Bases of Columns etc. and Mass concrete	6750	Sq.m		
45	Extra for Providing formwork with sheathing steel sheets so as to give a fair finish in (C) Vertical surface such as walls (any thickness) partitions & lime including attached pilasters buttresses plinth & string course & like.	100	Sq.m		
46	Providing and fixing CENTERING AND SHUTTERING for CURVED SHUTTERING in foundations in all types for Columns, Beams, Slabs, Walls, etc. of Buildings for all depths below and up-to & inclusive of plinth level, including strutting, bracing, propping etc., keeping the same in position during concreting and removal of the same after specified period etc. for Straight/ Inclined Shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete and as specified and directed.	5	Sq.m		
47	Providing and fixing CENTERING AND SHUTTERING for CURVED SHUTTERING in superstructures in all types for Columns, Beams, Slabs, Walls, etc. of Buildings for all heights above plinth level, including strutting, bracing, propping etc., keeping the same in position during concreting	5	Sq.m		

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	and removal of the same after specified period etc. for Straight/ Inclined Shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete and as specified and directed.				
48	Fixing Re-bars in already cast concrete - Non FIM Items				
	Designing, supplying and fixing re-bars in already cast concrete, including drilling, cleaning hole with air blow-out & wire-brush and injecting odourless Chemical of approved make, packed in dual foil, with the help of dispenser into a hole of diameter and depth as per manufacture specification, at all levels & locations for high strength deformed steel reinforcement bars of dia. up-to 12 mm of Grade Fe500D (conforming to IS:1786), DESIGNED FOR FULL TENSILE ANCHORAGE, including testing (as per manufacturer's recommendations), adjusting and making good any damage done to the structure etc. all complete as specified and directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE EXCLUDING REINFORCEMENT BARS.	50	Each		
49	Designing, supplying and fixing re-bars in already cast concrete, including drilling, cleaning hole with air blow-out & wire-brush and injecting odourless Chemical of approved make, packed in dual foil, with the help of dispenser into a hole of diameter and depth as per manufacture specification, at all levels & locations for high strength deformed steel reinforcement bars of dia. 16 mm & 20 mm of Grade Fe500D (conforming to IS:1786), DESIGNED FOR FULL TENSILE ANCHORAGE, including testing (as per manufacturer's recommendations), adjusting and making good any damage done to the structure etc. all complete as specified and directed. SUPPLY OF ALL MATERIAL IN	50	Each		

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	CONTRACTOR'S SCOPE EXCLUDING REINFORCEMENT BARS.				
50	STRUCTURAL STEEL WORKS SPEC NO. 6-68-0006				
	General Steel Works - Non FIM Items				
	Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in built-up for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge.Column (122 x 61 x 3.6mm)	1500	Kg		
51	Painting - Non FIM Items				
	Supplying and applying COATING (Post-erection/ Field) of approved quality and shade as per Sl. No. 9.2 of Table 9.0 of EIL Specification No. 6-79-0020 (or as per Job Specifications, wherever applicable) over the coat of shop primer already applied, including storage, surface preparation, dressing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop primer coat as per Sl. No. 7.2.1 of Table 7.2 of EIL Specification No. 6-79-0020 (or as per Job Specifications, wherever applicable), for steel structures (excluding ladders, spiral stairways & hand rails) at all location & levels, all complete as specified, for OFFSITE (INLAND) areas considering environment classification as INDUSTRIAL. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE.(Unit rate based on Structural steel weight).	1.5	MT		
52	Anchor Bolts - Non FIM Items				
	Providing and fixing M.S. round holding down or anchor bolts with nuts and washer plates complete.	500	Kg		
53	MS Metal Inserts - Non FIM Items				

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	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting, straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per EIL Specification No. 6-79-0020 (or as per Job Specification wherever applicable), etc. all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	0.2	MT		
54	GI Pipe Sleeves - Non FIM Items	0.2	MT		
	Supplying, fabricating and fixing in position G.I. PIPE SLEEVES of all diameters including providing necessary staging, cutting, straightening if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support heavy sleeves etc. all complete for all depths and heights as specified and directed.				
55	MS Chequered Plates - Non FIM Items				
	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stair treads, any other place as directed etc. including cutting to required size,	14	MT		

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	shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per EIL Specification No. 6-79-0020 (or Job Specification, wherever applicable) after fabrication etc. all complete as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).				
56	MS Rungs - Non FIM Items				
	Supplying, fabricating, fixing and keeping in position M.S. RUNGS in R.C.C. works at all depths and heights including handling, transporting the steel to site workshop and site of work, straightening, if required, cutting, bending to shape, necessary tying and welding with reinforcement, adjustment of shuttering, cleaning, surface preparation, shop primer as per EIL Spec. 6-79-0020 (or Job Specification, wherever applicable) and two coats of anti corrosive paint of approved quality on the exposed portion of rungs etc. all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	700	Kg		
57	MISCELLANEOUS ITEMS (REFER SPECIFICATION NO. 6-68-0013)				
	BI-POLAR CONCRETE PENETRATING CORROSION INHIBITING ADMIXTURE				
	Pro. and mixing Migratory Corrosion Admixture having Specific Gravity 1.01 to 1.04 pH value (Minimum 9.50) shall be alkaline in nature and having bipolar concrete penetrating corrosion inhibiting properties, inhibitor shall be non-nitrite based & have the ability to provide corrosion protection to both anodic and cathodic sites on the steel surface, inhibitor-steel complex shall formed polydentate complexes, having more than one bond with steel per	14400	Kg		

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	molecule of inhibitor, with steel surface to promote proper film formation with enhanced bond to steel, inhibiting the electro-chemical corrosion reaction, inhibitor shall not have any adverse effect on concrete compressive strength, inhibitor shall have a corrosion rate of zero coulombs per ASTM-G109-2005, admixture shall be conforming to IS 9103 and in liquid form at the rate of 5% by weight of cementitious materials.. Etc. complete				
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Note: The Unit rates specified for various items to be executed as per Schedule "B" attached with the Price Bid are excluding GST but inclusive all labours, materials, testing charges, equipment, all incidental charges involving in the work and as specified in the Mode of measurement & payment of detailed specifications of items incl. all taxes, royalty, octroi, transportation cost etc. all as applicable presently as to be enforced for future by any / all including Central/State Government & Statutory bodies from time to time.

BIDDER'S SIGNATURE

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