

Tender No.: MEC/23R8/01/51/S2/PE/00/0002

Tender Name: LAYING OF UNDERGROUND PE PIPELINES AND ABOVE GROUND GI INSTALLATIONS INCLUDING LAST MILE CONNECTIVITY AT CONSUMER END AT HYDERABAD

Project: CITY GAS DISTRIBUTION PROJECT AT HYDERABAD, VIJAYAWADA AND KAKINADA

**SUMMARY OF BIDDER'S PRICES FOR Schedule of Rates (SOR)**

Sl. No.	Description	In INR	
		(In Figures)	(In Words)
1)	Total Amount (inclusive of all taxes and duties except Service tax) from SOR		
2)	Service Tax 15.00% on 40% of Net Total Amount mentioned at SL. No. 1 above		
3)	Service Tax @ 15.00% on 40% on free issue material of INR <b>1,20,00,000/- (Rs One crore and twenty lakhs)</b>	720,000.00	Seven lakhs twenty thousand only
4)	Gross Total Amount (Sl. No. 1+2+3)		
<b>Notes:</b> 1) Bidder has to quote all items of the Price Schedule. 2) In case of any item(s) provided by owner as free issue, the implication of service tax on free issue items shall be borne by owner additionally. 3) Evaluation and comparison of bid shall be as per clause no. 32 of ITB - Vol. I of II.			
Place : _____ Date : _____	Signature of Authorised Signatory Name : Designation : Seal :		



**SCHEDULE OF RATES (SOR)**

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<b>Item No.</b>	<b>Activity</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Rate (inclusive of all taxes and duties except Service tax) in Rs.</b>	<b>Total amount (inclusive of all taxes and duties except Service tax) in Rs.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6=4x5</b>
	The routing of main pipeline (125/90/63/32 mm) shall be indicated by BGL/MECON. However for 20 mm dia pipeline, routing sketch, as per site condition shall be prepared by contractor, wherever instructed and submitted to BGL/MECON for approval and execution shall start after due approval. Further, the scope also includes preparation of drawing, for any change in route due to site condition for mainline (125/90/63/32 mm).				
	During the execution of the work, the construction area shall be barricaded to ensure the smooth execution of work and safety of the public/ working area. The item also includes supply of barricading as per drawing, transportation and placing the same at the site.				
	After laying of Pipeline, back filling with available softsoil upto depth of minimum 300 mm, placing brick as per given drg or as per instruction of BGL/MECON, backfilling with available soil upto minimum depth of 200 mm above bricks, putting approved warning mat of 0.5 mm thk and 250 mm wide with traceability provision (as per attached specifications), dressing the backfilled and compacted soil and backfilling & compaction of remaining trench depth with available soil.( The cost of supply & laying of Bricks shall be paid separately)				
	Once pipeline network is completed, pneumatic testing is required to be carried out as per the detailed specification. After testing, nitrogen purging is required to be done for complete network as per the specification.				
	Carrying out all works required to make the PE pipeline ready for commissioning / Gas-In as per specification. Commissioning the pipeline as per specification & approved procedure , providing tools & tackles, instruments, manpower and other accessories as per instructions of Engineer - In -Charge.				
	Item also includes grading of the pipeline route,if any required. The dismantling of the any structure, falling in pipe line route and making it good after completion of the work shall be carried out by contractor without any additional cost to BGL.				
	Final clean-up of construction area used for laying of pipeline works including disposal of debris and surplus material to designated disposal areas as per local authorities/BGL.				
	Reconciliation of materials, handing over the completed Pipeline Network to Bhagyanagar Gas Ltd. for their operation and submission of As-built Drgs and other related documents as per contract.				
<b>1.1</b>	<b>Normal Surface - General Area</b>				
1.1.1	20/32 mm PE 100 pipe	Meters	<b>3500</b>		
1.1.2	63 mm PE 100 pipe	Meters	<b>2500</b>		
1.1.3	90 mm PE 100 pipe	Meters	<b>1500</b>		
1.1.4	125 mm PE 100 pipe	Meters	<b>1000</b>		

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1	2	3	4	5	6=4x5
1.2	<b>Normal Surface - Laying inside the society/ individual premises (Liaisoning is not required for this part i.e. this item excludes liaisoning with state authorities / owners such as local authorities &amp; local officials, traffic police, police and any other utility companies / agencies etc):</b>				
1.2.1	20/32 mm PE 100 pipe	Meters	<b>9000</b>		
1.2.2	63 mm PE 100 pipe	Meters	<b>2000</b>		
1.2.3	90 mm PE 100 pipe	Meters	<b>500</b>		
	<b>Note:</b>				
i	For restoration, where advised by EIC, of asphalt / concrete roads, the item for construction of asphalt top / concrete top / red stone / paver shall be paid separately as per the rates quoted for the same elsewhere in the price schedule.				
ii	The above items include activity for open cut trenching only for all types of soils except rock. The decision regarding use of open cut/moling /HDD method at various locations shall be made by Engineer In -Charge/Owner based on permissions from authority etc.				
1.3	<b>Same as item 1.1 above but with built up sections (different type of pavement / footpath / roads etc.) on the top surface - General Areas</b>				
1.3.1	20/32 mm PE 100 pipe	Meters	<b>3500</b>		
1.3.2	63 mm PE 100 pipe	Meters	<b>2500</b>		
1.3.3	90 mm PE 100 pipe	Meters	<b>1500</b>		
1.3.4	125 mm PE 100 pipe	Meters	<b>800</b>		
1.4	<b>Same as item 1.2 above but with built up sections (different type of pavement / footpath / roads etc.) on the top surface - Society Areas</b>				
1.4.1	20/32 mm PE 100 pipe	Meters	<b>6000</b>		
1.4.2	63 mm PE 100 pipe	Meters	<b>3500</b>		
1.4.3	90 mm PE 100 pipe	Meters	<b>500</b>		

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1	2	3	4	5	6=4x5
1.5	Cutting/ breaking of hard rock found in trenches using mechanical means such as rock breakers / excavators (blasting prohibited) etc. Scope also includes disposal of rocky earth after breaking to designated disposal areas as per local authorities/BGL. (wherever hard rock of single piece exceeding 1.0 m in length along the trench direction as per the decision & direction of EIC)	CUM	370		
1.6	Same as item 1.1 above but by moling in all kind of soil (without casing) for PE pipe sizes (if needed in crossings). The contractor Scope also includes restoration of pits. Warning mat is not required to be laid in above pipe line.				
1.6.1	20/32 mm PE 100 pipe	Meters	8000		
1.6.2	63 mm PE 100 pipe	Meters	200		
1.6.3	90 mm PE 100 pipe	Meters	150		
1.6.4	125 mm PE 100 pipe	Meters	100		
1.7	Same as item no 1.1 above but by moling in all kinds of soil (with casing pipe) for PE pipe sizes (if needed in crossings). The items also includes supply of HDPE casing pipe of PE 100 PN 6 as per specifications. The contractor scope also includes restoration of pits. Warning mat is not required to be laid above the pipe line laid by molling / HDD etc.				
1.7.1	20/32 mm PE 100 Pipe (in 63 mm dia. HDPE Casing Pipe )	Meters	1000		
1.7.2	63 mm PE 100 pipe (in 125 mm dia. HDPE Casing Pipe )	Meters	200		
1.7.3	90 mm PE 100 pipe (in 180 mm dia HDPE Casing Pipe)	Meters	250		
1.7.4	125 mm PE 100 pipe (in 250 mm dia. HDPE Casing Pipe )	Meters	200		

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<b>1.8</b>	<b>Pipe Laying using Horizontal Directional Drilling (HDD) Technique:</b>				
	Laying of PE pipe , including supply of Couplers, as required to complete the job. Survey of U/G utilities, survey with requisite equipment / manpower, submission of profile drawings and design for approval, execution of the work as per standard procedure attached with proper capacity machine including excavation of pits and subsequent backfilling, compaction, jointing and insertion of PE pipe, testing & commissioning, restoration of the pits to to original condition, submission of As-Built Graph as per specifications and the instruction of Engineer-in-charge. If any additional temporary space is required for positioning of equipment for HDD adjacent to pipeline route, same needs to be arranged by the contractor. Item also includes liaisoning with all local authorities, permission if any required, shall be obtained by the contractor. In case of HDD with casing, supply of HDPE pipes also included in the scope. Warning mat is not required to be laid above the pipe line.				
<b>1.8.1</b>	<b>HDD Without casing Pipe</b>				
a)	32mm PE 100 Pipe	Meters	<b>500</b>		
b)	63 mm PE 100 pipe	Meters	<b>150</b>		
c)	90 mm PE 100 pipe	Meters	<b>100</b>		
d)	125 mm PE 100 pipe	Meters	<b>100</b>		
<b>1.8.2</b>	<b>HDD With casing Pipe</b>				
a)	32mm PE 100 Pipe (in 63 mm dia. HDPE Casing Pipe )	Meters	<b>200</b>		
b)	63 mm PE 100 pipe (in 125 mm dia. HDPE Casing Pipe )	Meters	<b>200</b>		
c)	90 mm PE 100 pipe (in 180 mm dia. HDPE Casing Pipe )	Meters	<b>300</b>		
d)	125 mm PE 100 pipe (in 250 mm dia. HDPE Casing Pipe )	Meters	<b>350</b>		
<b>2</b>	<b>Restoration of asphalted roads / concrete roads / pavements / foot paths</b>				
2.1	Asphalt road : Restoration of bitumen Asphalt road after laying of Pipe line as per the drawing, specifications and instruction of Engineer-In-Charge. Restoration of roads shall be done to fullest satisfaction of EIC and / or concerned Owners having jurisdiction.	Meters	<b>1200</b>		
2.2	Restoration of the all kind of pathway by using excavated material such as tiles/pavers/granite/red stone etc by providing PCC 1:4:8 of 75mm thickness below or as per construction found and making it as original . Item includes providing of extra material if required due to breakage during excavation work such as Tiles/Paver/Granite etc matching to original pathways.	Meters	<b>3000</b>		

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2.3	Cement Concrete road/ Cement Concrete pavement inside societies: Restoracion of concrete road and pavements shall be done by providing concrete of 1:2:4 (volumetric mix) of 100 mm thickness.	Meters	<b>12000</b>		
2.4	Cement Concrete road/ Cement Concrete pavement: Restoracion of concrete road and pavements by providing with 150 MM Thick WMM or Soling / WBMs and concrete of 1:2:4 (volumetric mix) of 100 mm thickness.	Meters	<b>2000</b>		
3	<b>Deleted</b>	-	-		
<b>4</b>	<b>Supply &amp; Laying of Bricks</b>				
	Supply and placing of Class 50 bricks in trenches as per the direction of EIC and as per the drawing. Item includes cost of transporation, loading & unloading and labour for placing the bricks in trenches .				
a)	20 / 32 mm & 63 mm PE 100 Pipe - Brick cover 115 mm wide	Meters	<b>31400</b>		
c)	90 mm & 125 mm PE 100 pipe - Brick cover 230 mm wide	Meters	<b>5800</b>		
<b>5(A)</b>	<b>Supply and installation of PE Stop off Ball Valves</b>				
	Supply of isolation valves (as per data sheet) and installation of valves with couplers , EF jointing in the valve pits as per typical drawing and specification enclosed and instructions of Engineer-in-charge. Payment of valve pits shall be paid separately as per SOR item No: 6.0.				
5.1	PE Valve 32mm dia	Nos.	<b>10</b>		
5.2	PE Valve,63 mm dia	Nos.	<b>8</b>		
5.3	PE Valve, 90 mm dia	Nos.	<b>5</b>		
5.4	PE Valve 125mm dia	Nos.	<b>4</b>		
<b>5(B)</b>	<b>Supply and installation of Steel isolation Ball Valves including TF, GI pipe, Box with lock, protection guard of CS, painting including foundations, as per attached drawing</b>				
5.5	Isolation Ball valve - 1.25" dia (hot pressed Ni-Cr plated full bore NPT female Bronze Valve)	Nos.	<b>20</b>		

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<b>6</b>	<b>Construction of Valve pits</b>				
	Construction of Value Pits as per the enclosed drawing nos. MEC/23R8/01/S3/D2/CF/00/9003/R0 and MEC/23R8/01/S3/D2/CF/00/9004/R0 and specification. The item includes supply of all the material including Pre-cast RCC cover, shuttering, reinforcement, labour, curing etc as per the drgs, specification and instruction of EIC.				
6.1	Type-1 having Internal size of Minimum 1000x1000mm (for 90/125 mm)	Nos.	<b>9</b>		
6.2	Type-2 having Internal size of Minimum 600x600mm (for 63 mm & below)	Nos.	<b>18</b>		
<b>7</b>	<b>Fabrication &amp; Installation of Markers</b>				
<b>7.1</b>	<b>RCC Route Markers</b>				
	Supply, fabrication and installation of RCC route markers as per the attached drawing no. MEC/23R8/01/S3/D2/CF/00/9005/R0, along the route including transportations of Marker. Item also includes excavation of pit in all type of soil, Concrete Grouting of Marker and removing of debris from site all complete.	Nos.	<b>1200</b>		
<b>7.2</b>	<b>Plate Markers</b>				
	Supply, fabrication and installation of plate markers as per the attached drg.no. MEC/23R8/01/S3/D2/CF/00/9006/R0 and specification. Item includes application of approved quality of primer and paint, lettering with stencil and fixing on walls with Dowel pins	Nos.	<b>200</b>		



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<b>8</b>	<b>PNG Connection to Domestic, commercial &amp; industrial Consumers</b>				
	"Receiving and taking-over" as defined in the specification, handling, loading, transportation and unloading of <b>Owner supplied GI pipes</b> of ½", ¾" or other sizes, <b>regulators</b> and <b>meters</b> (as free issue items) from Owner's designated place(s) of issue to Contractor's own stock-yard(s)/ Work Shop(s)/ work-site(s) including proper storing, stacking, identification, providing security & insurance cover AND including supply & installation of powder coated GI fittings/accessories of all sizes & thickness like Elbows, Tees, unions, sockets, reducers, GI plugs etc., Sleeves for transition fittings, meter control valves, appliance valves, brackets, supports, AND installation of GI line ( <b>Considering 6 m length of 1/2" or 3/4" GI pipe for each individual Kitchen connection - Variation from 6 m length for each connection, GI pipe installation will be paid / deducted on running metre basis</b> ), painting the piping, domestic regulator, meter with associated inlet and outlet connections / fittings, valves, approved meter brackets and other supports by proper scaffolding / grouting,AND Restoring the area to original complete as per specification, consumables, labour and other incidental works and handing over the same after return of the surplus pipes to the Owner's designated store; carrying out all temporary, ancillary, auxiliary works required to make the GI line ready for commissioning as per drawings, specifications,				
	The item also includes supply, installation & testing of 12.0 mm OD x 0.6 mm wall thickness copper tube <b>considering 3 m for each connection - variation from 3 m length for each connection, copper tube will be paid / deducted on running metre basis</b> ), appliance valve and Suraksha hose, conforming to IS 9573 Type IV.				
	Supply of copper / SS 304 fittings required for installation of copper tubing as per MECON TS and associated fittings including brass fittings at the outlet of the meter and at the entry of isolation valve as per satisfaction of EIC. The copper and fittings shall be procured from approved vendors who have supplied these items for similar application earlier and with prior approved of Client / Consultant.				
	Copper tubes shall be installed from the downstream of meter upto and including the appliance (isolation) valve before the customers' appliance as per MECON's Drawing to the satisfaction of EIC. The Contractor to provide all equipment, tools and material necessary to execute the work in an efficient manner by cutting, cleaning, flux application, soldering and lacquering.				

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	scope of work indicated in PJS and other provisions of Contract document and instructions of Engineer-in-charge, including but not limited to carrying out the following works: Preparation and approval of schedules, execution procedures, sketches. Finalisation of optimum route with consent of customer, from transition fitting to cooking oven / Making temporary but stable platforms / scaffolding / rope ladders and all other safety devices. Installation of GI Pipes & Fittings, Valves etc. including NPT threading, painting as specified.				
	Supply & Fixing of approved clamps, Dowell Plugs with screws, grout material, suitable thread sealant i.e. Teflon Tape/ lock tight, drilling of holes through tiles/ wood/ marble/ Granite etc. jointing of PE to above Ground service GI pipes, testing, purging with Nitrogen and Painting of entire length of pipe along with fittings after proper surface finish by one coat of approved primer paint and two coats of approved synthetic enamel paint complete as per specification & direction of EIC. Restoring the wall surface to original. All above activities to be carried out as per specification to the complete satisfaction of consumer & as desired by Engineer-in-charge.				
	Handing over the completed works to customer for their operation / use, returning of all free issue surplus material to BGL stores, reconciliation of free issue material area wise and obtaining "no objection certificate". Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule.				
	Any other activity not mentioned/ covered, explicitly above, but otherwise required for satisfactory completion/ safety/ statutory/ maintenance of works shall also be covered under scope of work and has to be completed by contractor within specified schedule.				
8.1	<b>Providing domestic connection as per above from outlet of Transition Fitting (TF) to customers appliance including TF guard, GI riser / piping (considering 6 m), riser regulator (where required), meter control valve (including supply), domestic regulator(when required), meter, appliance valve(including supply), copper tube (considering 3 m) and Suraksha hose.Complete in all respects upto RFC Stage.</b>	Nos.	<b>4500</b>		
8.2	<b>Providing PNG Domestic Connection as per above from Meter control Valve: installation complete in all respects, installation of Meter &amp; regulator as per requirement, GI piping (considering 2 m) upto appliance valve (including supply), Cu tubing (considering 3 m) and Suraksha hose.Complete in all respects upto RFC stage.</b>	Nos.	<b>500</b>		

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8.3	<b>Providing PNG Domestic Connection from existing Charged / Uncharged Piping works:</b> From the existing charged /Uncharged riser to customer appliance; Scope includes GI Piping from the existing isolation valve/plug end to Meter control Valve(including supply) to Appliance Valve( <b>including supply</b> ) ; installing piping and Cu tubing (considering 5 m GI and 3 m copper tubing) complete <b>in all respects upto RFC Stage.</b>	Nos.	<b>500</b>		
8.4	<b>Providing hot tapping connection for the customer &amp; TF (32/20 mm dia) with EF coupler,</b> including installation of Saddle, coupler (EF+ Fittings) - installation of TF RCC guard Sleeve with foundation. (Laying / Moling to connect upto customer point will be paid under separate SOR heads)				
a	125 x 32 mm saddle with its respectives fittings to fuse with 32/20 mm pipe.	Nos.	<b>50</b>		
b	90 x 32 mm saddle with its respectives fittings to fuse with 32/20 mm pipe.	Nos.	<b>50</b>		
c	63 x 32 mm saddle with its respectives fittings to fuse with 32/20 mm pipe.	Nos.	<b>100</b>		
d	32 x 20 mm saddle with its respective fittings to fuse with 32/20 mm pipe	Nos.	<b>300</b>		
8.5	<b>Providing PNG ConectionFor commercial &amp; Industrial consumers</b>				
	Same as item 8.1 above but installation of Owner supplied GI pipes of all sizes of any length as per decision of BGL / MECON, the item includes installation of GI pipes with associated fittings , installation of regulator, meter control valve ( including supply) upto inlet of Commercial meter with installation and testing.				
8.5.1	GI for commercial connections	Nos.	<b>30</b>		
9	<b>Conversion of Domestic Appliance</b>				
	Conversion of all types of LPG kitchen appliances to NG based appliances.				
	Supply & changing of nozzles/ jets and associated controls for domestic & imported appliances with proper tools & tackles.				
	Cleaning and performing minor maintenance, greasing etc. of appliance, testing/ showing performance to the customer ,signing of joint meter records (JMR) and instructing customer on use & safety norms, complete as per specifications & to satisfaction of of customer				
9.1	Kit Appliance per burner in every appliance	Nos.	<b>12200</b>		
9.2	Oven/Geyser	Nos.	<b>200</b>		

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<b>Item No.</b>	<b>Activity</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Rate (inclusive of all taxes and duties except Service tax) in Rs.</b>	<b>Total amount (inclusive of all taxes and duties except Service tax) in Rs.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6=4x5</b>
10	<b>Adjustment rate for additional / shortfall length in Installation of GI or Cu pipes for Domestic consumers</b>				
10.1	Same as item 8.0 above but installation of Owner supplied GI pipes of ½", ¾" sizes beyond / less than 6 m length for one connection, to be adjusted on running metre basis.	Meters	<b>1000</b>		
10.2	Same as item 8.0 above but supply, installation & testing of 12.0 mm OD x 0.6 mm wall thickness copper pipe beyond / less than 3 m length , if required, as decided by BGL/MECON for some connections, to be adjusted on running metre basis.	Meters	<b>600</b>		
11	<b>Installation of larger diameter GI pipes</b>				
	Same as item 8.0 above but installation of Owner supplied GI pipes of 1" size or 1*1/2" in place of ½", ¾" sizes of any length, if required as decided by BGL/MECON				
11.1	1" or 1*1/2" Dia riser pipe upto seventh floor	Meters	<b>150</b>		
11.2	1" or 1*1/2" Dia riser pipe from seventh floor & upto fourteenth floor	Meters	<b>60</b>		
11.3	1" or 1*1/2" dia riser pipe above fourteenth floor	Meters	<b>20</b>		
12	Supply and installation of Isolation Valves of approved make, with plug where required as per the technical specification and Drgs given in tender document:				
a)	Isolation Ball Valve 1/2 " / 3/4 " max. 6 bar (g)	Nos.	<b>21000</b>		
b)	Isolation Ball Valve 1 " max. 6 bar (g)	Nos.	<b>300</b>		
c)	Isolation Ball Valve 1*1/2 " max. 6 bar (g)	Nos.	<b>100</b>		
13	<b>Installation of Regulator modules</b> : Installation & Fixing of regulator modules with associated inlet and outlet connections/ including supply and installation of fittings, valves, approved brackets and other supports by proper scaffolding/ grouting, Restoring the area to original complete as per specification.				
i)	Service Regulator modules (0.5 - 6 bar to 100 mbar) - 6 SCMh to 80 SCMh capacity	Nos.	<b>500</b>		
ii)	Commercial Regulator (0.5 - 6 bar to 300 mbar) -10 SCMh to 80 SCMh capacity	Nos.	<b>30</b>		

**SCHEDULE OF RATES (SOR)**

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14	<b>Service Regulator Boxes :</b>				
14.1	Supply and installation of Service Regulator boxes as per drawing attached and as per directions of EIC.	Nos	100		
15	<b>DRS / MRS / Metering Station works</b>				
	<b>Installation of DRS/MRS/Metering Skid</b>				
	Receiving and taking over, handling, loading, transportation and unloading of DRS/MRS/ Metering Skid from Owner's designated stockyards to site, installation at foundation and hooking up with MDPE pipe, at outlet including all works as required to complete the job as per the drawings and specification, scope of work mentioned in tender document. The scope includes supply of transition fittings and other MDPE and CS fittings as per requirements and various associated works to commission DRS/MRS/Skid. Note: Amount towards civil/structural work shall be payable as per related SOR items.				
a	DRS / MRS / Metering Skid	Nos.	4		
16	<b>CIVIL WORKS</b>				
16.1	<b>Site Grading</b>				
	Earth in excavation and filling to the grades and levels shown in the approved drawings in all kinds of conditions including for Road embankments, using approved quality good earth from designated borrow area, for all heights and depths including clearing and stripping (min. 150mm) of the area marked for filling, taking spot levels, consolidating the exposed natural soil surface, excavating the earth from borrow area loading, transporting & unloading, spreading in layers not exceeding 150mm thickness, breaking clods, watering (if reqd.), ramming and compacting by manual/ mechanical means to give minimum 92% of modified Proctor's density of earth, testing & dressing including disposal of all unserviceable material all complete as per specifications and directions of Engineer-in-charge.	M <sup>3</sup>	100		
	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of royalties, right of way, cess etc., as applicable with all bye works and sundry works).				
a)	<b>PCC 1:2:4</b>				
	1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size.	M <sup>3</sup>	15		

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b)	<b>PCC 1:4:8</b>				
	1 Cement : 4 Coarse sand : 8 stone aggregate 40mm nominal size.	M <sup>3</sup>	5		
	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, earthwork in excavation and backfilling using approved earth in all conditions etc. with all bye works and sundry works.)				
16.2	<b>Reinforced Cement Concrete</b>				
	Providing and laying reinforced cement of grade M-25 with 20mm and down grade crushed stone aggregate in all types of structures like foundations, pedestals, pedestal bases, pipe supports, sleepers cable trench including construction joints, bitumen painting on surface in contact with soil, supplying and fixing reinforcing steel, shuttering, inserts, finishes etc. at all depths and heights complete as per drawings, specifications and direction of the Engineer-in-charge.	M <sup>3</sup>	15		
	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including sulphate resistant cement for sub-structures, R/F steel, Inserts, bolts, conduits, bitumen, other minor construction materials, shuttering, stanging, earthwork in excavation and backfilling using serviceable earth in all conditions, shorting bailing and pumping out water, testing of concrete, curing etc. with all bye works and syndry works.				
16.3	<b>Concrete Pavement</b>				
	Providing and laying reinforced cement concrete of (M-25 grade) with 20mm and down grade crushed stone aggregate in pavement, including preparation of base (i.e. compacted subgrade, 200 thk sand and 50 thk PCC M-10 grade), leaving pockets if necessary, making recess, projections, fixing inserts conduit pipes (GI, PVC, HDPE, etc.) laying in alternate panels, filling the gaps between the panels with bitumen etc., making slopes, finishing edges, leaving bars for pedestals & sleepers including providing sand fill isolation, shuttering, providing and fixing reinforcing steel, curing, chipping and modification works etc. as specified in any shape, thickness, position and finishing the top surface smooth as per requirement etc. all complete as per drawings, specifications and directions of the Engineer-in-charge.				
	- 150mm thick (Type-I)	M <sup>2</sup>	40		

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16.4	<b>Brick Work</b>				
	Providing brick work with brick class designation M-7.5 of IS:1077 in cm1:4 (1 cement : 4 sand) in steps, walls, retaining walls and load bearing structures drains, or any shape with all lead, depths & height including curring, scaffolding, etc., as per specifications and drawings with all bye-works and direction of the Engineer-in-charge.	M <sup>3</sup>	<b>20</b>		
	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement bricks, finishes, bitumen, other minor constrcution materials, shuttering, staging, masonry work, plastering, painting etc. with all bye-works and sundry works).				
	<b>Note</b> : The quantites of individual item can varied as per site requirement.The payment will be made as per actual certified measurement at site.				
	<b>Total Amount (inclusive of all taxes and duties except Service tax)</b>				