

BILL OF QUANTITIES

B.O.Q No:

CEYLON PETROLEUM STORAGE TERMINALS LIMITED
PREMISES AND ENGINEERING SERVICES FUNCTION

**JOB :- PROPOSED RENOVATION FOR EXISTING SEWERAGE SYSTEM IN ZONE 09 AT
CPSTL OIL INSTALLATION KOLONNAWA.**

Item	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
A	PRELIMINARIES				
A.1	Allow lump sum for provide temporary facilities ,stores,Site office and for construction staff (Approximate area - 12 m ²).Rate to include removal of all tempory huts at the completion of the project.	1.00	item		
A.2	Allow lump sum for unforeseen works which can be arised during the construction.	1.00	item		
Total for Preliminaries carried to summary					
B	DEMOLISION AND DISMANTALING WORK				
B.1	Demolition and dismantaling of the existing manhole directed by engineer .Rate to include backfilling with excavation soil and for transport the debris and disposal in a suitable location within the CPSTL premises as directed by engineer.				
B.1.1	Average size 350mm x 350mm x up to 500mm	1.00	Nr		
B.1.2	Average size 450mm x 450mm x up to 750mm	1.00	Nr		
B.1.3	Average size 600mm x 600mm x up to 600mm	2.00	Nrs		
B.1.4	Average size 700mm x 700mm x up to 500mm	1.00	Nr		
B.1.5	Average size 750mm x 750mm x up to 1000mm	2.00	Nrs		
B.2	Demolition and dismantaling of (exceeding 75 mm thick) existing mass concrete floor .Rate to include for cutting,breaking concrete and removing of the debris from the site as per engineer's instruction.	12.00	m ²		
B.3	Demolition and dismantaling of (exceeding 200 mm thick) existing R.C.C concrete floor .Rate to include for cutting & breaking reinforcement concrete and removing of the all debris from the site as per engineer's instruction.	11.00	m ³		
B.4	Remove and dismantaling 110mm diameter ductile iron pipe line from watercloset to manhole at the main two storied card office. Rate to include removing of the all debris from the site as per engineer's instruction.	1.00	item		
Total for Demolition and dismantaling work carried to summary					

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Item	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
C	EXCAVATION, EARTH WORKS & ASPHALT WORKS				
	<p><i>Rates for excavation & site work shall be deemed to include for:</i></p> <p><i>a)Trimming sides, keeping clean & consolidating bottom of column bases & trenches etc.</i></p> <p><i>b)Back filling and disposing surplus excavated material as directed.</i></p> <p><i>c)Keeping all excavation free from storm or percolating water as required or directed to keep excavation dry etc.</i></p> <p><i>d)Planking , strutting & form work etc., if necessary</i></p> <p><i>e)Working space if required</i></p> <p><i>f)Rate to be included removing plants,shrubs and roots</i></p> <p><i>g)The Bidder shall refer the followings prior to pricing the items in this trade</i></p> <p><i>1. Soil condition of the site</i></p> <p><i>2. Specification</i></p> <p><i>3. Location of the site and location of each activity and Access to the site</i></p>				
C.1	Excavate trench for Pipe line commencing from finished ground level, in any material met with except rock requiring blasting depth not exceeding 1.5 m. Rate shall include for temporary supports sloping sides, compacting and levelling bottom and disposable in a suitable location as per the Engineer's instruction.	64.00	m ³		
C.2	<u>Earth filing, well watered and compacted by mechanical rammer in layers not exceeding 150mm thick layers to achieve 95% compaction.</u>				
C.2.1	Backfilling with excavated soil and compaction as per the engineer's instruction. Rate shall include for removing temporary supports if any sloping sides, compacting 150mm thick layer by layer using rammer machine and levelling surface and disposable material remove to a suitable location as per the Engineer's instruction.	20.00	m ³		

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Item	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
C.2.2	Back filling and compaction with earth (supply by CPSTL) as directed by engineer.Rate to be included transporting, spreading, levelling, watering in 150 mm thick layers with compaction using Rammer machine.	5.00	m ³		
C.2.3	Back filling and compaction by using Quarry dust laying around the pipe line as per drawings and directed by engineer .Rate to be included supplying, spreading, levelling,watering in 150 mm thick layers by using plate compactor machine.(quarry dust)	37.00	m ³		
Total for Concrete, form work ,Reinforcement carried to summary					0.00
D	CONCRETE , FORM WORK , REINFORCEMENT WORK				
D.1	CONCRETE WORK <i>Rates shall be deemed to include for: Mixing , handling , depositing & hoisting in position, compaction & vibrating as specified. Packing , tamping around reinforcement & curing as specified.(Please refer drawings for further deatails)</i>				
D.1.1	<u>Supply and lay insitu R.C.C concrete ,Grade 20 (1:2:4(20mm))</u>				
D.1.1.1	75 mm thick, Damage area	10.00	m ²		
D.1.2	<u>Supply and lay insitu R.C.C concrete ,Grade 25 (1:1 1/2:3 (20mm))</u>				
D.1.2.1	In damaged Concrete walls,Cover slab,damaged floor area over pipe line (Rate to include form work if necessary)	11.00	m ³		
D.2	REINFORCEMENT <i>Rate for Reinforcement shall be deemed to include for: Bending ,fabricating , placing in position,tying wire, distance blocks & spacing of reinforcement Wire brushing & cleaning if necessary, as directed by engineer.</i>				
D.2.1	Supply and lay 10mm Dia.Tor Steel Bars In damaged Concrete walls,Cover slab,damaged floor area over pipe line	520.00	kg		
Total for Concrete, form work ,Reinforcement carried to summary					

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Item	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
E	MASONRY WORKS				
	<i>Steel Plate and DI Cover cub brushing,cleaning and apply Zinc posphate with Black enamel paint.</i>				
E.1	Construction of R.C.C. concrete manhole , consist of 100mm thick walls & concrete base with Grade 25 (1:1 1/2:3) and Steel plate supply by CPSTL. Rate to include for excavation , backfilling,necessary formwork, reinforcement of Y10@150 bars in both ways ,50mm thick 1:3:6 (25) screed concrete 12 mm cement rendering in cement sand rendering in 1:2 mix trowel smooth with neat grey cement to all internal surfaces and external surfaces and necessary benching with connection to sewer line etc.as per detail's drawings.Rate to include cutting, sizing, brushing and panting by contractor.				
E.1.1	Type A1 (600 X 600 X 750 mm)	4.00	Nrs		
E.1.2	Type A2 (700 X 700 X 900 mm)	1.00	Nr		
E.2	Construction of R.C.C. concrete manhole, consist of 150mm thick walls & concrete base with Grade 25 (1:1 1/2:3) and DI cover supply by CPSTL . Rate to include for excavation , backfilling,necessary formwork, reinforcement of Y10@150 bars in both ways (Top and bottom net) ,50mm thick 1:3:6 (25) screed concrete, 12 mm cement rendering in cement sand rendering in 1:2 mix trowel smooth with neat grey cement slurry to all internal surfaces,bottom surface,external surfaces and necessary benching with connection to sewer line etc.as per detail's drawings..Rate to include brushing and panting by contractor.				
E.2.1	Type A3 (700 X 700 X 750 mm)	1.00	Nr		
E.2.2	Type A4 (700 X 700 X 1000 mm)	1.00	Nr		

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Item	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
E.3	Construction of R.C.C. concrete manhole, consist of 150mm thick walls & concrete base with Grade 25 (1:1 1/2:3) and Steel plate supply by CPSTL . Rate to include for excavation , backfilling,necessary formwork, reinforcement of Y10@150 bars in both ways (Top and bottom net) ,50mm thick 1:3:6 (25) screed concrete, 12 mm cement rendering in cement sand rendering in 1:2 mix trowel smooth with neat grey cement slurry to all internal surfaces,bottom surface,external surfaces and necessary benching with connection to sewer line etc.as per detail's drawings..Rate to include cutting, sizing, brushing and panting with handles by contractor.				
E.4.1	Type A5 (600 X 600 X 500 mm)	2.00	Nrs		
E.4.2	Type A6 (700 X 700 X 750 mm)	1.00	Nrs		
Total for Masonry Work carried to summary					
F	PLUMBING/SANITARY INSTALLATION AND DRAINAGE WORK				
	<i>Cost of supplying & fixing of all PVC/UPVC piping work inclusive of specials & minor materials should include to the respective items.</i> <i>All PVC pipes should confirm to SLS 147 .</i> <i>Rates for pipes shall include for burying in ground and for pipe fittings such as bends, tees, Y junctions, inspection openings, cleaning eye & reducers etc., and complete with , supports & anchored.</i>				
F.1	Supplying and laying of 110mm (4")dia. type 600(PNT7) PVC pipe in the excavated trench. Rate shall include for all fitting as per drawing details and engineer's instruction .(Rate for quarry dust filling paid seperately).	46.00	m		

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Item	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
F.2	Supplying and laying of 160mm(6") dia. type 600(PNT7PVC pipe) pvc pipe in the excavated trench.Rate shall include for all fitting as per drawing details and engineer's instruction.(Rate for quarry dust filling paid seperately).	183.00	m		
F.3	Supplying and laying of 110mm (4")dia. PVC pipe type 600(PN _T 7) drop manhole fitting .Rate shall include for all fitting as per drawing details and engineer's instruction.(Rate for quarry dust filling paid seperately).	1.00	Nr		
F.4	Connect and repair sewerage line to existing manhole and concreating benching, plastering work and neat smoothing slurry.Rate to include necessary masonary work,replacing steel plate and functioning the sewerage systems.	4.00	Nrs		
F.5	Supplying and laying of 110mm (4")dia. type 600(PNT7) PVC pipe on the existing wall connect to water closet at the main two storied card office. Rate to include PVC bends,GI bracket ,screw nails,roll plugs,necessary PVC accessories...etc. Bracket should be fixed 450mm c/c	5.00	m		
Total for Plumbing/Sanitary installation and drainage work carried to summary					
G	MISCELLANEOUS WORK				
G.1	Repair damaged drain by using masonary work and match with existing drain as per the engineer's instruction.	5.00	m		
Total for Miscellaneous work carried to summary					

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INSTALLATION KOLONNAWA.**

GRAND SUMMARY

ITEM	DESCRIPTION	AMOUNT(Rs.)
A	PRELIMINARIES	
B	DEMOLISION AND DISMANTALING WORK	
C	EXCAVATION, EARTH WORKS & ASPHALT WORKS	
D	CONCRETE , FORM WORK , REINFORCEMENT WORK	
E	MASONRY WORKS	
F	PLUMBING/SANITARY INSTALLATION AND DRAINAGE WORK	
G	MISCELLANEOUS WORK	
	TOTAL AMOUNT(Excluding VAT)	
	OTHER TAXES (if any) <u>VAT 15%</u>	
	TOTAL AMOUNT(Including VAT)	

Name of Bidder :

Address :

(If Bidder is not registered for VAT he should furnished a letter obtained from the commissioner of inland revenue department certifying that the Company has not been registered for VAT)

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Signature of Bidder

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Date