

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA

BOQ No. E/06/2023

SUMMARY

Item	Description	AMOUNT (Rs)
1	PRELIMINERIES	
2	Modifications & repairs to exit/entrance gate ramp of new gantry yard and tank farm gate	
3	Repair works of Record room / Labour rest room / Office lunch room	
4	Repairs to damaged concrete area and asphalted area near BTR unloading area.	
	TOTAL AMOUNT	
	SSCL (2.5%)	
	TOTAL AMOUNT with SSCL	
	VAT. (18%)	
	TOTAL AMOUNT WITH VAT	

VAT Registration No. :

Total amount in words (with out VAT) :
.....

Name of Tenderer :

Address :
.....

(If Tender is not registered for VAT he should furnish a letter obtained from the commissioner of inland Revenue Department certifying that the company has not been registered for VAT)

.....
Signature of Tenderer

.....
Date

BILL OF QUANTITY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION.

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA**BOQ No. E/06/2023**

Item	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	<p>Note: Contractors are strictly advised to visit the site & follow the given details, sketches, drawings, specifications before bidding & before commence the works. If there are any discrepancies that should be forwarded to the Engineering Manager of CPSTL Kolonnawa before commencement of such works. Construction work to be carried out without damaging existing drains, pipes and other CPSTL property. if some damage occur, contractor should repair by own cost according to the Engineer's or his representative's instructions.</p> <p>All the material should be provided by the contractor unless otherwise stated in the BOQ description "material provided by the CPSTL".</p>				
1	<u>PRELIMINERIES</u>				
1.1	Site clearing before starting construction and after completing of construction and levelling of site where necessary, removing the debris away from the site as directed.	Item	1		
	Total carried to summary				
2	<p><u>Modifications & repairs to exit/entrance gate ramp of new gantry yard and tank farm gate area.</u></p> <p>EXCAVATION, EARTH WORK AND DEMOLISHING WORK</p> <p>Rates for excavation & site work shall include for:</p> <p>Trimming sides, keeping clean & consolidating bottom of pits & trenches etc.</p> <p>Back filling and disposing surplus excavated material as directed.</p> <p>Keeping all excavation free from storm percolating water as required or directed to keep excavation dry etc.</p> <p>Planking, strutting & form work, etc. if necessary</p> <p>Timber shoring with frame work If necessary</p> <p>Dewatering if necessary</p> <p>Extra excavation for any working space required.</p>				

BILL OF QUANTITY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION.

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA**BOQ No. E/06/2023**

Item	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	<p>CONCRETE WORK</p> <p>Mixing, handling, depositing & hoisting in position and plant for mixing.</p> <p>Packing, tamping around reinforcement & curing as specified.</p> <p>Bending, fabricating, placing in position tying wire, distance blocks & spacing or reinforcement.</p> <p>The actual dia. of reinforcement used should be equal to dia. Specified in the drawing.</p> <p>Wire brushing & cleaning if necessary, as directed by Engineer.</p> <p>FORMWORK</p> <p>All necessary boarding, supporting, application of mould oil as necessary erecting, framing, cutting angles cleaning, wetting and treatment before placing concrete and striking and removal etc.</p> <p>Form work has been measured the net contact surface measurement between concrete and form work.</p> <p>All form work shall be in plywood sheet/timber planks (to provide a good finish on concrete surfaces) not less than 12mm thick (if plywood) with application mould oil or / laid a polythene layer with suitable laps to prevent leaking with suitable up stand at edges.</p> <p>REINFORCEMENT</p> <p>High yield reinforcement and hot rolled mild steel bar reinforcement , BS 5950 characteristic strength 400 N/mm2 (manufactured by 'CHICO' - Ceylon Heavy Industries & Construction Co. Ltd or approved equivalent)</p> <p>All reinforcement free from mill scales, dirt, oil, paint, services or loss rust before fixing in position and shall be brushed with a stiff wire brush if so directed by the consultant.</p>				

BILL OF QUANTITY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION.

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA**BOQ No. E/06/2023**

Item	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	<p>The size of reinforcement rods describe in the drawing or elsewhere shall be minimum size and the rolling margin and any other tolerance shall be wholly above this size. Hooks and laps have been measured with the quantities.</p> <p>Rate shall include for cutting, bending, fabrications & placing in position, holding and supporting including temporary fixing support hangers & 16/20 binding wire.</p>				
2.1	Existing RCC drain side walls to be raise according to suitable slope to match the gantry yard level and main road level for smooth bowser movements. Rate shall include for demolished the top part of the drain side walls (approximate 225 mm height from top) after removed the steel cover plates and embedded 3"x3"x1/4" angle iron sections and provide 10 mm dia tor steel at 150 mm centers (double net) reinforcement with exposed existing reinforcement and concreting (grade 25 concrete) the drain side walls to raise as per the necessary slope. Rate shall include for necessary formwork and embedded removed 3"x3"x1/4" angle iron section and laying removed steel cover plates.	m	13.00		
2.2	Excavation in exit gate area for levelling sub base In any type of soil except rock requiring blasting. Excavated material to be removed from site away from site as directed.	m ³	5		
2.3	Supplying, laying, levelling & compacting of A.B.C (aggregate base course) layer in 3" thick well compacted layers by using compactor as directed. (Exit gate and Entrance gate area and tank farm gate area)	m ³	6		
2.4	3150 x 2100 size existing gate to be raise about 225mm - 300 mm. Rate to include necessary removing and refixing with welding work fabrication work etc.	Item	1		

BILL OF QUANTITY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION.

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA**BOQ No. E/06/2023**

Item	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
2.5	Applying of tack coat with Bitumen emulsion CRS1 at the rate of 0.5 ltr/sq.m after properly removing of all dust and surface shall be completely dried.	m ²	100		
2.6	Supplying , laying (manually) & compacting (with suitable mechanical compactor) of 100 mm average thick asphalt concrete with 12 mm nominal aggregate, binder (60/70) 5% Max. Rate shall include for shaping of the edges to right angle and necessary cleaning of damaged areas by using air compressor or manually as specified.	Ton	20		
	Total carried to summary				
3	<u>Repair works of Record room / Labour rest room / Office lunch room</u>				
	<u>Record room</u>				
3.1	Existing 875x2000mm timber door to be removed and void to be closed by using 225 mm thick brick work . Rate to include for necessary plastering work, painting work to match the existing.	nr	1		
3.2	Existing 825x2000 mm timber glazed door to be removed and voids to be closed by using 225 mm thick brick work . Rate to include for necessary plastering work, painting work to match the existing.	nr	1		
	<u>Labour Rest room</u>				
3.3	Existing 910x1925mm timber framed ply wood door to be removed and provide new aluminium framed door as per drawing. Rate to include for necessary patch work, painting work to match the existing. Aluminium door should be white colour powder coated single sash butt hinged openable door with middle rail, panelling with Polyester coated aluminium composite panel of 0.2 mm thick aluminium sheets both sides of total thickness 4mm at bottom panel and glazed with 5mm thick clear glass panes at top panel, neoprene and woold beading, gaskets, poprivots, threaded bar with nut and approved quality lock, butthings, door handle with capnut. As directed.	nr	1		

BILL OF QUANTITY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION.

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA**BOQ No. E/06/2023**

Item	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
3.4	Existing damaged 950x1175mm size steel framed glazed window to be removed and provide new Aluminium glazed window as discribed. Rate to include for necessary patch work, painting work to match the existing. Window should be powder coated with aluminium casement window double sash, consisting of 5mmthick clear glass panes,casement lock, screws, poprivots, gaskets, hinges, weather strip etc. As directed.	nr	1		
3.5	Existing damaged floor area (approximate 4 m2 area)of labour rest room to be concreted (75 mm thick grade 20 concrete) after demolish and removed debris and necessary earth filling work and compaction, floor rendering etc. to match the existing.	Item	1		
3.6	Painting of labour rest room floor, skirting and plinth wall with one coat of quick drying floor paint including washing and cleaning surfaces.	m2	25		
3.7	Flat asbestos ceiling sheet with timber (imported Balau or Kempas timber) frame work consisting of 4" x 2" joists and 2" x 2" bearers at not more than 4'-0" centers and fillet size to be 1"x1/4" and cove moulding size to be 1 1/2"x1 1/2". The sheets to be fixed to timber frame after apply two coats of wood preservatives. Rate shall include for apply one coat of primer and two coats of emulsion paint after surface preparation of new ceiling.	m2	16		
	<u>Office lunch room</u>				
3.8	Temporarily disconnect and removed existing electrical fittings (two nos. lamp fittings, one ceiling fan) of the damaged ceiling and refixing the removed electrical fittings after fixing of new ceiling as directed.	Item	1		
3.9	Existing damaged (approximate area - 18.6 m2) ceiling with frame to be removed. Rate to include for removing debris and usable material to be hand over to DS LBD Kurunegala.	Item	1		

BILL OF QUANTITY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION.

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA**BOQ No. E/06/2023**

Item	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
3.10	Flat asbestos ceiling sheet with timber (imported Balau or Kempas timber) frame work consisting of 4" x 2" joists and 2" x 2" bearers at not more than 4'-0" centers and fillet size to be 1"x1/4" and cove moulding size to be 1 1/2"x1 1/2". The sheets to be fixed to timber frame after apply two coats of wood preservatives. Rate shall include for apply one coat of primer and two coats of emulsion paint after surface preparation of new ceiling.	m ²	19		
	Total carried to summary				
4	<u>Repairs to damaged concrete area and asphalted area near BTR unloading area.</u> EXCAVATION, EARTH WORK AND DEMOLISHING WORK				
4.1	Existing damaged 100 mm thick 600 mm height concrete retaining wall to be demolished and removed away from site.	m ³	1.00		
4.2	Existing damaged concrete road area to be demolished and removed away from site. (if required)	m ³	5.00		
4.3	Existing damaged asphalted road area to be removed away from site.	m ³	3.00		
4.4	600 mm approximate height and 150 mm thick wall with 200mm thick and 600 mm wide base RCC retaining wall (6 m long) in grade 25 concrete for rail track side . Rate to include for 10 mm dia tor steel at 200 mm centers double net with, necessary formwork as directed. The BTR unloading area levels to be maintained with existing levels in order to get proper storm water drain out let system.	m ³	2.00		
4.5	Excavation up to 150mm depth commencing from bottom of the existing concrete / asphalt concrete road level In any type of soil except rock requiring blasting. Excavated material to be removed from site away from site as directed. (If required)	m ³	8		

BILL OF QUANTITY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED - ENGINEERING FUNCTION.

JOB: MODIFICATION FOR "IN" & "OUT" GATE RAMPS OF NEW GANTRY AREA AND REPAIRS TO BTR UNLOADING AREA & MISCELLANEOUS WORK AT LBD KURUNEGALA**BOQ No. E/06/2023**

Item	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
4.6	Supplying, laying, levelling & compacting 150mm thick A.B.C (aggregate base course) layer in 75mm thick well compacted layers by using compactor as directed. (if required)	m ³	8		
4.7	Applying of tack coat with Bitumen emulsion CRS1 at the rate of 0.5 ltr/sq.m after properly removing of all dust and surface shall be completely dried.	m ²	48		
4.8	Supplying , laying (manually) & compacting (with suitable mechanical compactor) of asphalt concrete with 12 mm nominal aggregate, binder (60/70) 5% Max. Rate shall include for reshaping of the damaged edges to right angle and necessary cleaning of damaged areas by using air compressor or manually as specified.	Ton	6		
	Total carried to summary				