

SECTION- 8
BILL OF QUANTITIES

PREAMBLE TO THE BILL OF QUANTITIES

It is the Bidder's responsibility to see that the prices include for complying with all the requirements of the other documents whether specifically referred to in Bill of Quantities.

The Bidder is advised to visit the site of the proposed work and it is the responsibility of the Bidder to ascertain the conditions governing access to the site, the extent of working space storage area etc.

1. This Bill of Quantities contains pages numbered from 62 to 71. Bidders are requested to see that no page is missing, no duplicate and that all TRADES are carried to SUMMARY at the end of the Bill of Quantities.
2. The Conditions of Contract, the Specifications and the Drawings are to be read in conjunction with the Bill of Quantities.
3. The cost of complying with all conditions, obligations and liabilities described in the Conditions of Contract, Specifications and the Bill of Quantities including all overhead charges and profit in carrying out the work as shown on the Drawings shall be deemed to be spread over and included in the prices of sums stated by the Bidder in the Bill of Quantities unless separately measured.
4. If the Bidder fails to price any items in the Bill of Quantities then the cost of the work under such items shall be held to be spread over and included in the prices given against other items of work.
5. The quantities set out in the Bill of Quantities are provisional and cover the approximate scope of the work anticipated to be performed by the Contractor. The actual quantities used for final measurement purposes will be determined by the Engineer by measurement of the work completed by the Contractor.
6. Where trade names, brands and or Catalogue Numbers are referred to, sole preference to any material or equipment is not intended. Any other material or equipment may be used, provided that the characteristics of type, quality, appearance, finish, method of construction and / or performance is superior to the specified.
7. Whenever the method of measurement is not clear from the documents available, the principles as given in the Sri Lanka Standard 573: 1999 UDC 69(08374) shall be applicable.
8. Selected Bidder shall comply with the arrangement of work and be ready to work part by part as required by the Authorities of the Employer if applicable.
9. The unit and lump sum prices of the Bill of Quantities (referred to as the Contract Rates) shall, except in so far as is otherwise provided for under the Contract, be deemed to cover all obligations set out in the Contract, and all matters or things necessary for the proper completion and maintenance of the Works, and shall be fixed and binding upon the Contractor.
10. Unit prices when applied to the quantity of work performed under the Contract shall, and other sums specifically determined under the provisions of the Contract, constitute full remuneration to the Contractor under the Contract.
11. Each item shall be priced by the Bidder in Sri Lanka Rupees or Foreign Currency.

12. Rates for items in this Bill of Quantities shall be inclusive for hauling, transporting, loading, unloading, spreading, heaping, supporting, scaffolding, welding, and for laps, unless otherwise specifically stated.
13. Unless otherwise specifically stated in Bill of Quantities or herein, the following shall be deemed to be included with all items:-
- i. Labour and all costs in connection therewith.
 - ii. Materials, goods and all costs in connection therewith.
 - iii. Tools, plants, equipment, machinery and all costs in connection therewith.
 - iv. Waste of materials.
 - v. Protecting and clearing.
 - vi. Square cutting.
 - vii. Establishment charges, overhead charges and profit.
 - viii. All setting out works.
 - ix. For providing of method statements, calculations, proposals by Contractor, shop drawings and as built drawings.
 - x. The rate for each item shall also include for all the following.
 - a. Complying with regulations of the Municipal Council and/or any other relevant authority under which particular item of work is to be executed unless otherwise included in the preliminaries.
 - b. Plant and equipment unless and otherwise included in preliminaries.
 - c. In addition to above, the rate for item of work in substructure shall include for the works at depth extending below ground water table where applicable including excavation under water, removal and disposal of mud, stand and preparation of place to a condition suitable for proper execution of the work.
14. If Bidders are anticipating to give any discount, it shall be marked separately in the space allocated in the summary of Bill of Quantities. Provisional Sums shall not be considered when calculating discount.
15. All materials, equipment supplied shall be new, unused without any defects.
16. All materials used in the Works shall be of the best quality of their respective kinds as specified and shall be obtained from sources and suppliers approved by the Engineer and shall comply strictly with the tests prescribed or, Where tests are not laid down in this Specification, with the requirements of the latest issue of the relevant British Standards or other Standards approved by the Engineer.
17. Metric units are used throughout the Bill of Quantities for measurement purposes unless otherwise indicated. Abbreviations used in the Contract are as follows:-

L.S.	-	Lump Sum
P.S.	-	Provisional Sum
m	-	Metre
m ²	-	Square metre
m ³	-	Cubic metre
kg	-	kilograms
nr	-	Numbers
LKR	-	Sri Lankan Rupees
USD	-	US Dollars

**BILL OF QUANTITIES
CEYLON PETROLEUM STORAGE TERMINALS LIMITED
JOB : REPAIRS TO TANK NO.46 AT KOLONNAWA INSTALLATION.
BOQ No: E/48/2017**

Note: Items which has both the LKR Component and a Foreign Currency Component, shall be rated separately in the provided columns. For the items which has only a single currency component shall be rated in respective columns. Sub totals of LKR Component and a Foreign Currency Component (Specify the Foreign currency in the space given in BOQ & Summary) should be carried forward to the summary and the Foreign Currency subtotal to be converted in to LKR in the summary (Foreign Currency shall be converted to LKR using middle exchange rate published by Central Bank of Sri Lanka, on the date 28 Days prior to date of closing of Bids). Then both components shall be added and the total to be carried to Form of Bid.

ITEM	DESCRIPTION	UNIT	QTY	LKR COMPONENT		FOREIGN CURRENCY COMPONENT	
				RATE LKR	AMOUNT LKR	RATE	AMOUNT
	Contractors are strictly advised to visit the site & follow the given details, sketch drawings, specifications before commencing the works. Any discrepancy should be forwarded to the Engineer before commencement of such works.						
A	PRELIMINARIES						
A1	Mobilization and demobilization and site clearing.	Item	Allow				
A2	Construction of temporary access road.	Item	Allow				
A3	Erection of temporary fire barrier and fire blanket in order to protect the surrounding piping and other tanks in service.	Item	Allow				
	Total amount carried to summary						

ITEM	DESCRIPTION	UNIT	QTY	LKR COMPONENT		FOREIGN CURRENCY COMPONENT	
				RATE LKR	AMOUNT LKR	RATE	AMOUNT
B	MECHANICAL WORK						
B1	Removal of existing roof plates, roof accessories and water drencher system.	Item	Allow				
B2	Removal of existing roof structure.	Item	Allow				
B3	Removal of 6 th , 7 th and 8 th shell courses with reinforcement ring as per the drawing.	Item	Allow				
B4	Fabrication and installation of inlet and outlet nozzles as per the drawing.	Item	Allow				
B5	Supply materials, fabrication and installation of new shell plates and accessories as per the drawing No. 1615-2.	Item	Allow				
B6	Supply materials, fabrication and installation of roof top angle.	m	110				
B7	Supply materials, fabrication and installation of roof structure.	Item	Allow				
B8	Supply materials, fabrication and installation of new roof plates and roof accessories.	Item	Allow				
B9	Supply materials, fabrication and install of water drenching system.	Item	Allow				

ITEM	DESCRIPTION	UNIT	QTY	LKR COMPONENT		FOREIGN CURRENCY COMPONENT	
				RATE LKR	AMOUNT LKR	RATE	AMOUNT
B10	Supply necessary materials, fabrication and installation of floating suction.	Item	Allow				
B11	Supply necessary materials, fabrication and installation of reinforcement ring of tank shell.	m	110				
B12	Replacement of the dip plate.	Item	Allow				
B13	Supply materials, fabricate and install foam piping system with hot dip galvanizing.	Item	Allow				
B14	Supply and installation of foam top pourer unit.	Item	Allow				
B15	Supply materials, fabricate and install top hand rail with toe plate.	Item	Allow				
B16	Supply and install mechanical level gauges.	Item	Allow				
B17	Grit blast cleaning and painting of underside of roof plates and roof structure.	Item	Allow				
B18	Grit blast cleaning and painting of tank bottom and shell interior.	Item	Allow				
B19	Grit blast cleaning and painting of top side of roof plates and other accessories and shell exterior.	Item	Allow				
B20	Grit blasting cleaning and painting of water drenching system.	Item	Allow				

ITEM	DESCRIPTION	UNIT	QTY	LKR COMPONENT		FOREIGN CURRENCY COMPONENT	
				RATE LKR	AMOUNT LKR	RATE	AMOUNT
B21	Power brush cleaning, painting, and local repairs to spiral stairway and its handrail.	Item	Allow				
B22	Improvement to the earthing system to the tank.	Item	Allow				
B23	Supply of centrifugal pump with electric motor.	Item	Allow				
B24	Supply materials, fabrication and installation of quick flush tank and system including gate valves, check valves and self-closing valves as per the Drawing No.1615-12.	Item	Allow				
B25	Blast cleaning and, painting of quick flush tank and piping system.	Item	Allow				
B26	Carryout the Hydro test	Item	Allow				
B27	Calibration of the tank including supply of 3 calibration tables and soft copy in the form of spread sheets.	Item	Allow				
	Total amount carried to summary						
	CIVIL WORK						
C1	Demolishing of existing tank apron by 3" and the existing brick drain.	m ²	200				

ITEM	DESCRIPTION	UNIT	QTY	LKR COMPONENT		FOREIGN CURRENCY COMPONENT	
				RATE LKR	AMOUNT LKR	RATE	AMOUNT
C2	Excavation, fill and compacted 300 mm ABC layer as per the drawing No. 1615-10	m ²	200				
C3	Constructing of concrete apron with filling groove by asphalt as per the drawing No. 1615-10	m ²	200				
C4	Demolishing and constructing concrete drain as per the drawing No. 1615-10	m	130				
C5	Laying, spreading and compaction of quarry dust of average 50mm thick as per the drawing No. 1615-12. Rate to include for necessary excavation, back filling, levelling etc.	m ²	50				
C6	Supply and laying of 450 x450x 50 mm pre cast concrete slabs by using grade 20 concrete on the well compacted sub base and leaving 30 mm joints and edges filled with 1:3 cement, sand mixture as per the drawing No. 1615-12.	m ²	50				
	Total amount carried to summary						

SUMMARY OF BOQ				
ITEM	DESCRIPTION		LKR AMOUNT	FOREIGN CURRENCY AMOUNT (.....)
A	PRELIMINARIES	=	LKR	
B	MECHANICAL WORK	=	LKR	
C	CIVIL WORK	=	LKR	
	Sub Total I	=	LKR	
	Less discount if any	=	LKR	
	Sub Total II	=	LKR	
	Sub Total III (only LKR Amount)	=	LKR	
	Convert Foreign Currency subtotal of (c) to LKR	=	LKR	
	Total sum carried to form of bid	=	LKR	
	VAT (8%)	=	LKR	
	TOTAL AMOUNT WITH VAT	=	LKR	

Total amount in words (LKR):-.....
.....

VAT Amount :-

VAT registration no :-.....

Name of Bidder :-.....

Address :-.....
.....

.....

Date

.....

Signature & Common Seal
of the Bidder

Witness :.....

Name :

Address :

N.I.C. No:.....

Witness :.....

Name :

Address :

N.I.C. No:.....