
TENDER SPECIFICATION

TENDER NO. BHEL/ NR/ SCT/ FFS/LIBYA/940

FOR

**MODIFICATION /RECTIFICATION OF UNDERGROUND FIRE FIGHTING
PIPE THROUGH PIPE TRENCHES AT ROAD CROSSINGS AND FIRE
FIGHTING SYSTEM COMMISSIONING AT WMGTPP LIBYA PROJECT**

PART- II - PRICE BID



Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Power Sector – Northern Region,

Plot No. 25 , Sector - 16A ,

Distt. Gautam Budh Nagar,

NOIDA – 201 301 (INDIA)

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**ISO 9001, ISO 14001,
OHSAS 18001 & SA 8000
certified company
SubContract and Purchase
Deptt.**

Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A ,
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IMPORTANT NOTE

PURCHASER OF THIS TENDER DOCUMENT IS ADVISED TO CHECK AND ENSURE COMPLETION OF ALL PAGES OF TENDER DOCUMENT AND REPORT ANY DISCREPANCY TIMELY FOR CORRECTIVE ACTION, IF ANY, TO THE ISSUING AUTHORITY BEFORE THE BIDS ARE SUBMITTED. ORIGINAL COPY OF TENDER DOCUMENT COMPLETE IN ALL RESPECTS MUST BE SUBMITTED BACK AS PART OF THE BID WITHOUT WHICH THE SAME IS LIABLE TO BE REJECTED BY BHEL.

THIS TENDER SPECIFICATION ISSUED TO:

M/S-----

RATE SCHEDULE

BHARAT HEAVY ELECTRICALS LIMITED						
NAME OF WORK: Modification/Rectification of underground firefighting pipe through pipe trenches at road crossings and firefighting system commissioning at WMGTPP, Libya Project						
BOQ CUM RATE SCHEDULE						
Sr. No.	Ref Item No.	Work Description	Unit	Quantity	Unit Rate (Euro)	Amount (Euro)
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	cum	727.65		
2	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	cum	25.2		
3	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
	15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	37.8		
		CEMENT CONCRETE (CAST - IN- SITU)				
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	69.3		
5	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
	4.3.1	Foundations, footings, bases for columns	sqm	78.6		
6	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	348.48		
7	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	1597.2		

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8	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth				
	5.22.6	5.22.6 Thermo-Mechanically Treated bars	kilogram	24000		
9	5.12	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, Trench Cover , bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	cum	82		
10	MSR Item No. 701	Supply, fabricating and fixing of mild steel embedment's, inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc. Including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete.	MT	2.5		
11	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	cum	181.5		
12	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	260		
13	16.43.1	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, leveling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately.	cum	100		

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14		Cutting of existing pipe, putting dummy on buried pipe , install new pipe as per layout in the new constructed Civil Trench's, supports, NDT and Hydraulic test, painting, foot over bridges if required	MT	37		
15		Providing manpower support on man-days basis:				
	15.1	Skilled Manpower (Millwright fitter, Grinder, Electrician, Welder and painter etc.)	Man-days	100		
	15.2	Unskilled Manpower (Riggers, Helpers etc.)	Man-days	120		
GRAND TOTAL in Euro's						.

NOTES:

1. Tender shall be evaluated on Grand Total Price.
2. The tenderer shall quote the price as per the rate schedule only, in part II price bid (Original). Conditional price bids or price bids with any deviation / clarification etc. are liable to be rejected. No cutting / erasing / over writing shall be done.

Signature of the bidder