

Bharat Heavy Electricals Limited
High Pressure Boiler Plant
Tiruchirappalli – 620 014. India
Civil Engineering Department (Factory)

TENDER DOCUMENT (PRICE BID)

Name of work : Laying / Re-laying / repairs of bituminous roads in and around BHEL, Tiruchy complex.

Value of work : Rs. 200.00 Lakh

Tender Notice No. : 08/10-11

Tender Schedule No. : 21/10-11

Period of Contract : 15 Months

Issued to :

SCHEDULE 'A'

LIST OF WORKS AND PRICES

NAME OF WORK: Laying / Re-laying / repairs of bituminous roads in and around BHEL, Tiruchy complex.

DETAILS & QUANTITIES of each item of work shown in the BILL OF QUANTITIES are only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the BILL OF QUANTITIES

Sl.No.	Description of work / supplied	Total amount of work / supplies (in figures and words)		Period of contract
		Rs.	Ps.	
1.	Laying / Re-laying / repairs of bituminous roads in and around BHEL, Tiruchy complex.	200,00,000/-		FIFTEEN (15) MONTHS

BILL OF QUANTITIES

Sl. No.	Appx. Qty.	Description of work	TNBP No.	Rate (Both in Unit fig & Words)	Amount	
					Rs.	Ps.

AS PER SEPARATE SHEETS ATTACHED CONTAINING **5** PAGES
FROM SERIAL No. **3 to 7**

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI - 14

BILL OF QUANTITIES

NAME OF WORK: Laying / Re-laying / repairs of bituminous roads in and around BHEL, Tiruchy complex.

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
1		Dismantling / removing / demolishing as the case may be and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge.			
a)	10	Brick work in cement mortar		CUM	
b)	10	Stone rubble masonry in cement mortar		CUM	
c)	10	Plain Cement Concrete.		CUM	
d)	10	RCC works including stacking of steel bars.		CUM	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
e)	100	RCC pipes up to 450mm dia.		RM	
f)	200	Bituminous roads		CUM	
g)	200	WBM road.		CUM	
2		Earth work for surface excavation in soils given below including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the sub grade to proper level and grade. Disposed soil are to be leveled and neatly dressed.			
a)	2500	Hard / Dense soil		CUM	
b)	500	Ordinary rock		CUM	
3	3300	Providing laying compacting wet mix macadam (WMM) with clean, crushed, graded aggregate and granular material and finished in accordance with the requirements of the specifications (MORTH 406) and thickness as per approved plans or as directed by the Engineer in-charge.		CUM	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
4	2600	Providing 50 mm consolidated thick bituminous macadam over bituminous surface using IRC grade metal of 0.35 Cu.m of 25 to 12 mm, 0.21 cu.m of 12 to 6 mm & 0.14 Cu.m of 6 mm and below for 10 Sq.m with 40 kg of bitumen for premixing, including handling charges at CMP site, labour for loading the bitumen in bitumen tank and metal to feed units, labour for attending to paver site, heating & mixing the bitumen and metal to the required temperature in the central hot mix plant, conveying the mix by tipper to paver site, spreading the mix in required temperature & thickness with mechanical paver to the specified grade and cross section, consolidation by power roller to get the required density, including hire charges for CMP, paver finisher, tipper, power roller, bitumen boiler, all other tools and plants, incidental charges such as barricading, provision of danger lights etc., complete. Rate includes cost of metal, bitumen, hire and running charges for tools & plants and all other incidentals etc., complete. Payment will be made on pre level & post level measurements.		CUM	
5	1200	Providing semidense carpet of 40 mm consolidated thickness using machine crushed IRC size HBG metal 0.16 Cu.m of 13.20 mm, 0.256 Cu.m of 11.20 mm and 0.176 Cu.m of 5.60 mm & below for 10 Sq.m with 49.60 kg of bitumen for premixing for 10 Sq.m of 40 mm consolidated thickness of semidense carpet, including cost of bitumen, handling charges, labour for loading the bitumen in bitumen tanks & metal in feeder units, labour for attending paver units, heating & mixing the bitumen and metal to the required temperature in the central hot mix plant, conveying the mix from CMP site to work site by tipper, spreading by the paver finisher to the required grade & cross profile & consolidation by power roller, including hire and running charges for CMP, paver finisher, tipper, power roller, bitumen boiler and all other tools & plants & all other incidental charges etc., complete. Rate includes cost of metal, bitumen, labour, hire & running charges of tools & plants, barricading, providing of danger lights etc.. complete. Payment will be made based on pre level & post level measurements.		CUM	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
6		Providing and applying tack coat including heating the bitumen in boiler, labour for preparing the surface, spraying the bitumen as tack coat, hire & running charges for all tools & plants & all other incidentals etc. complete.			
a)	24000	Over bituminous surface using 2.5 K.G of bitumen emulsion per 10 SQM area.		SQM	
b)	24000	Over WBM surface using 4.00 K.G of bitumen emulssion per 10 SQM area.		SQM	
7		Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost.			
a)	100	150 mm dia.		R.M.	
b)	125	250mm dia.		R.M.	
c)	150	300 mm dia.		R.M.	
d)	100	450mm dia		R.M.	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
8		Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements.			
a)	1200	0 to 1km		CUM	
b)	500	Beyond 1 km but upto 2 km		CUM	
c)	500	Beyond 2 km but upto 3 km		CUM	
				TOTAL	

(RUPEES.....)

CONTRACTOR

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ACCEPTING OFFICER