

TENDER

(NIT NO. TA/TCL/**20**/19-20)

FOR

**PATCH REPAIR AND RECARPETING OF
BITUMINOUS ROADS IN BHEL TOWNSHIP,
BHOPAL.**

PRICE BID

SECTION - VI



**TOWNSHIP CIVIL MAINTENANCE
BHARAT HEAVY ELECTRICALS LIMITED**

**(A Government of India Undertaking)
BHOPAL - 462 022 (M.P)**

PREAMBLE OF PRICE BID

1.0. This Price Bid consists of three Schedules:

1.1 Schedule A

Schedule A consists of two Annexures:

1) Annexure-I includes items based on DSR 2012, Rate analysis

Bidders are requested to quote their rates in Percentage above/below/at Par for Annexure-I.

2) Annexure-II – Scope of work

1.2 Schedule B

Schedule B gives the details of free issue materials given by BHEL.

1.3 Schedule C

Schedule C gives the details of Tools & Tackles provided by BHEL on Chargeable Basis.

2.0 The work to be carried out under the contract shall, except as otherwise provided in tender conditions, include all labour, materials, tools, plant, equipment, and transport which may be required in preparation of and for full & entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles as laid down in Technical Specification & elsewhere in Tender Specification.

3.0 The price bid should not contain any condition. Conditional price Bids shall be summarily rejected.

4.0 The bidder should not leave any column blank in Price Schedules.

5.0 Price Quoted shall include all taxes, & duties except GST.

6.0 **Unless otherwise specified in the items involving cement or reinforcement steel, these items shall be issued free of cost by BHEL.**



TOWNSHIP CIVIL MAINT. & CONST. DIVISION

SCHEDULE 'A'

Annexure: I

Name of work : Patch repair and recarpeting of bituminous roads in BHEL Township, Bhopal.

S.No	It. Code	Description of items	Qty.	Unit	Rate	Amount
1		Carriage of materials by mechanical transport including loading, unloading and stacking etc. complete up to 1km				
	1.1.2	Earth	1.00	Cum	82.78	82.78
2		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.	4.00	Cum	130.80	523.20
3	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 upto 1.5 m.	3.00	Cum	83.80	251.40
4	15.43	Dismantling manually/ by mechanical means Including stacking of serviceable material and Disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
	15.43.2	Bituminous road.	217.00	Sqm	119.95	26029.15
5		Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom. With medium setting bitumen emulsion.				
(A)	16.31.2.1	On W.B.M. / W.M.M. @ 0.4 kg/sqm.	699.00	Sqm	11.73	8199.27
(B)	16.31.2.2	On bituminous surface @ 0.25 kg/sqm.	8799.00	Sqm	7.83	68896.17

6	16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :				
	16.36.2	For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/10 sqm.	614.00	Sqm	454.12	278829.68
7	16.55.2	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge. 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	706.00	Cum	5345.26	3773753.56

8	16.56.2	Providing and laying semi-dense Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge. 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	9310.00	Sqm	172.60	1606906.00
9	16.62	Providing and applying 2.5mm thick road marking strips (retro-reflective) of specified shade/colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineering-in-charge and accordance with applicable specification.	119.00	Sqm	413.56	49213.64
10	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	62.00	Cum	1885.72	116914.64

[illegible]

ANNEXURE-II**SCOPE OF WORK**

Name of work : Patch repair and recarpeting of bituminous roads in BHEL Township, Bhopal.

Scope of work is inclusive of but not limited to the following activities:-

S. No.	Description of Activities
1	Dismantling of bituminous road wherever necessary.
2	Application of tack coat.
3	Providing and laying bituminous penetration macadam.
4	Providing and laying bituminous macadam and SDBC.
5	Providing and applying road marking strips.
6	Providing and laying of WMM.
7	Providing and laying of RCC pipes
8	Other associated/allied work required to complete the work.

The above scope may undergo some minor changes based on BHEL final requirement.

Signature of Contractor

SCHEDULE – “B”							
Name of work : Patch repair and recarpeting of bituminous roads in BHEL Township, Bhopal.							
1. Cement.		--			Issued free of cost at Gadia Store/ sub-division		
Note: If the contractor fails to return to the department unconsumed portion of total quantities of respective free issue material after completion of work or as and when instructed by Engineer-incharge, recovery at twice the respective material cost of the item as procured/decided by BHEL shall be made from the contractor's bill(s).							
SCHEDULE – “C”							
----NIL----							
Signature of Contractor							