

TENDER

(NIT NO. TA/TCL/**34**/19-20)

FOR

**CONDUCTING DIFFERENTIAL GLOBAL
POSITIONING SYSTEM (DGPS) SURVEY FOR
DEMARCATATION OF LANDS OF BHEL 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.
- 3) Annexure-III - Drawing.

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 : Conducting Differential Global Positioning System (DGPS) survey for demarcation of lands of BHEL Bhopal.

S.No	It. Code	Description of items	Qty.	Unit	Rate	Amount
1	Non-DSR	Conducting Differential Global Positioning System (DGPS) survey for demarcation of lands of BHEL Bhopal. The survey shall be based on revenue records provided by Town Administration department of BHEL, Bhopal authenticated by land and survey records, Revenue department, Govt. of M.P.				
		This item shall, broadly, be inclusive of the following activities :-				
	a)	To establish the actual boundary line as per the survey records available with Town Administration department in co-ordination with Revenue department, Govt. of M.P.				
	b)	To do permanent marking of BHEL boundary on the ground with survey posts.				
	c)	To get the boundary marked on the ground authenticated by officials of Revenue department, Govt. of M.P. (i.e. State Survey & Land Records)	4550.00	acre	665.00	3025750.00
	d)	To submit survey map showing the position of existing BHEL boundary				
	e)	To provide co-ordinates of the boundary at various locations w.r.t. major milestones in the vicinity so that the same can be referenced even in the absence of or in case of tampering of survey posts				
	f)	To submit survey report along with survey maps in colour print-outs – 3 sets duly attested by concerned authorised official, Department of Revenue, Govt. of M.P.				
2	Non-DSR	Providing and fixing RCC precast, pre-fabricated, mechanically compacted heavy duty poles (i.e. survey posts) engraved with BHEL letters as per drawing and specification. Grade of concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size). RCC poles/survey posts shall be free from cracks, twists and other defects. Note:- Earth work in excavation and concrete work in foundation shall be paid separately under respective items.	500.00	each	343.00	171500.00

3	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 up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
		All kinds of soil	1690.00	cum	130.80	221052.00
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations, etc. in layers not exceeding 20 cm in depth : consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5m	1510.00	Cum	83.80	126538.00
5	4.1.3 RA	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	171.00	cum	2576.38	440560.98
6	5.9.1 RA	Centring and shuttering including strutting, propping, etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete.	1200.00	sqm	155.49	186588.00
7	13.61.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	330.00	sqm	50.19	16562.70
					Total Rs.	41,88,551.68
Percentage quoted by the Contractor			%	Above	Below	At Par
Percentage quoted by the Contractor in words						
Signature of Contractor						

ANNEXURE-II**SCOPE OF WORK**

Name of work : Conducting Differential Global Positioning System (DGPS) survey for demarcation of lands of BHEL Bhopal.

In Order to safeguard BHEL land, BHEL, Bhopal unit intends to get Differential Global Positioning System (DGPS) Survey carried out for complete land of BHEL and also to get the same vetted by Revenue Authorities of State Government of MP. The Survey will, primarily, include the demarcation of boundary coordinates, demarcation of already surrendered land within BHEL boundary and demarcation of encroached land within BHEL boundary at Bhopal.

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

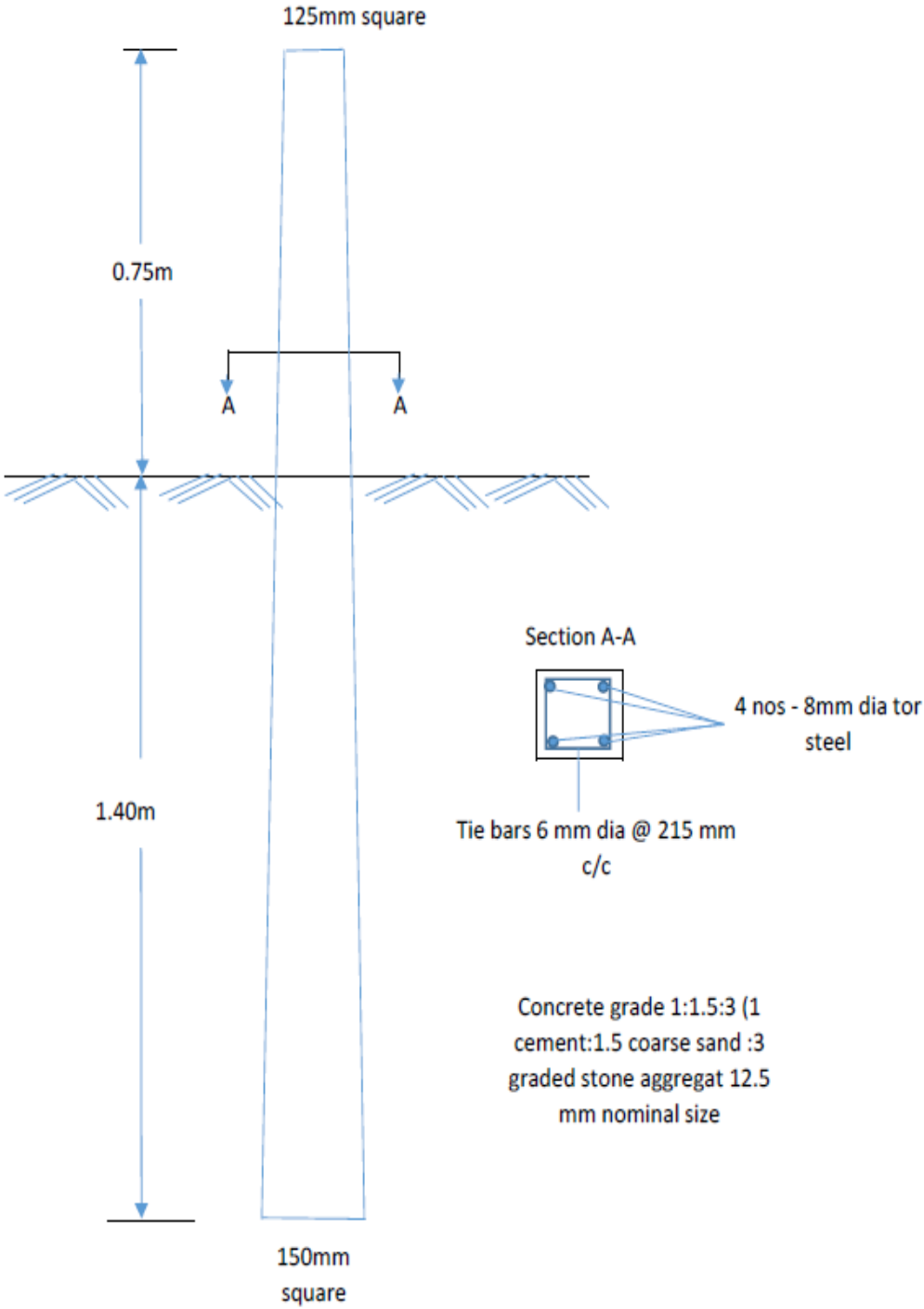
S. No.	Description of Activities
1	Conducting DGPS Survey to clearly & accurately demarcate complete BHEL, Bhopal land, including interior land in pockets, boundary wall as well as surrendered and encroached lands within BHEL boundary at Bhopal. The survey shall be based on available land & survey records provided by Town Administration department of BHEL, Bhopal which had been authenticated by Revenue Department of Govt. of M.P.
2	Establishing the actual boundary line as per the boundary wall existing in most of the stretches & as per the survey records available with Town Administration department of BHEL, Bhopal in coordination with Revenue Department of Govt. of M.P.
3	Permanent Marking of boundary on the ground with survey posts.
4	Authenticating the boundary marked on the ground by officials of MP State Revenue department as per Survey & Land Records.
5	The survey map submitted by the agency shall show the position of BHEL boundary wall already existing in most of the stretches and also the boundary as per revenue records in remaining stretches.
6	To provide co-ordinates of the boundary at various locations w.r.t. major milestones in the proximity so that the same can be referenced even in the absence of or in case of tampering of survey posts.
7	Submission of Survey Report along with Survey Maps in colour print-outs (3 sets) duly attested by the concerned authorised official, Revenue department, Govt. of MP.

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

Signature of Contractor

ANNEXURE-III

DRAWING



SCHEDULE – “B”								
Name of work : Conducting Differential Global Positioning System (DGPS) survey for demarcation of lands of BHEL Bhopal.								
1. Cement (Against Item at Sr. No. 5)					}	To be 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								