

**BHARAT HEAVY ELECTRICALS LIMITED**  
**(A Government of India Undertaking)**  
**P.O. BHEL Jhansi 284120**

**LOCOMOTIVE MANUFACTURING DEPARTMENT**

**Notice Inviting Tender (NIT)**  
**For**

Works contract for Preparation of Cable Harnessing of 18 nos. WAG-9HC at  
LMM shop, BHEL Jhansi

Tender Enquiry No.

LMM/TW/22-23/008

**Contact Person :**

Name : MS Monika  
Designation : Manager (CMM)  
Email : monikav@bhel.in  
PH : 0510 – 2770001 – 2414  
Or

Name: P B S Ekka  
Designation: AGM (CMM)  
Email: pbsekka@bhel.in  
PHONE: 0510-2770001-2549

**Material Management Department**

**BHEL, PO : BHEL, Jhansi 284120 (UP)**

Tender due date: **07/10/2022 13:15 hrs.**

Tender Opening date: **07/10/2022 14:00 hrs.**

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We hereby accepted above (signature & seal of bidder)

Seal & Signature of BHEL contracting authority



## BHARAT HEAVY ELECTRICALS LIMITED

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LOCOMOTIVE MANUFACTURING (LMM), JHANSI - 284120

TENDER ENQUIRY NO: LMM/TW/22-23/008

DATE: 16.09.22

### DETAILS OF TENDER DOCUMENT

L	M	M	T	W	2	2	2	3	0	0	8
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Preparation of Cable Harnessing work of WAG-9HC locomotive at Loco assy shop, BHEL Jhansi:

1. BHEL Jhansi is in the process of finalizing the Works Contract for "Preparation of Cable Harnessing of WAG-9HC Locomotive at LMM shop, BHEL Jhansi"

2. The tender document has been detailed as follows:

- a) Notice Inviting Tender (Annexure A)
- b) Work Specifications (Annexure B)
- c) Qualifying Requirements (Annexure C)
- d) Documents required (Annexure C1).
- e) General Terms & conditions
- f) Price Bid (Annexure JS 146)
- g) Blank Price bid Format JS 472 attached
- h) Forms & Formats (Annexure I, II, III & IV)
- i) Self-declaration (Annexure E)
- j) Contract Agreement (Annexure VI)
- k) Indemnity Bond (Annexure VII)
- l) Checklists of documents for enquiry (Annexure VIII)
- m) Performa of Bank guarantee (Annexure IX)
- n) Statement of paid leave of employee for month (Annexure – X)
- o) Declaration regarding elimination cartel formation (Annexure – XII)
- p) SOP for implementation of risk and cost option for non-performing (Annexure – XIII)

The duly filled in Technical and Price / Rate bids (Annexure C and JS -146, separately) along with General Terms and Conditions and all other attachments with the signature of the tenderer on all the pages and complete in all respects super scribed as "Quotation for Tender No LMM/TW/21-22/008 dated **16.09.2022**" should reach us in a sealed cover on or before **07/10/2022** (13.15 hours) through Registered / Speed post or the same may be dropped in the tender box available at the following address:

Tender Box  
CISF Control Room/Office  
Administrative Building  
Bharat Heavy Electricals Limited  
Jhansi-284 120

**Note:** (i) Incomplete offers are liable for rejection.

(ii) Technical bid and price bid should be submitted in separate sealed envelopes. In case the bids are found in one single envelope then the "bids" are liable to be rejected.

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**TENDER DOCUMENT FOR**

**WORKS CONTRACT FOR CABLE HARNESSING OF WAG-9HC AT LMM SHOP,  
BHEL JHANSI**

**The tender document has been detailed as follows:**

SN	Description	Annexure No.	Page No.	No.of Pages
01.	Notice Inviting Tender	A	1-5	11
02.	Work Specification, Measurement of work and Payment	B	6-9	
03.	Qualifying Requirements	C	10	
05	Performa for submitting Technical Bid	D	11	
06	Self-Declaration	E	12	1
07	General Terms & conditions of enquiry (JHS 2055C R01)	Copy Enclosed	13-26	32
08	Price Bid Sheet	F	27	1
09	Clubbed Annexures (I to X) Forms	I to X	28-42	15
10	Certificate by CA for MSME	XI	43	1
11	Declaration regarding elimination cartel formation	XII	44	1
12	SOP for implementation of risk and cost option for non-performing	XIII	45-54	10
	TOTAL			54

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Annexure – 'A'

### NOTICE INVITING TENDER

1	Scope of Work	Works contract for Preparation of Cable Harnessing of 18 nos of WAG-9HC at LMM shop, BHEL Jhansi
2	Tender evaluation criteria	As per qualifying requirements (see annexure C attached)
3	Validity of Contract	12 Months from the date of award of work order
4	Date and Time of Receipt of Tenders	Up to 13:15 hrs. on 07.10.22
5	Date and Time of Opening of Technical bids	14:00 hrs. on 07.10.22
6	Address for submitting the Tender	Tender Box, CISF Control Room/Office, Administrative Building, Bharat Heavy Electricals Limited, Jhansi-284120
7	Earnest Money Deposit (EMD)	Rs. 19,260/- (Rupees Nineteen Thousand two hundred Sixty Only)
7(a)		The EMD may be accepted only in the following forms: (i) Electronic Fund Transfer credited in BHEL account (before tender opening) <i>BHEL account details: Bank Name: - SBI; A/c No. :- 10670828866 ; IFSC code:- SBIN0003807, A/c Holder Name:- BHARAT HEAVY ELECTRICALS LIMITED</i> (ii) Card swapping through POS machine at Cash section of BHEL Jhansi.)
8(a)		In case of successful bidder, EMD will be converted and adjusted against the security deposit.
8(b)		<b>EMD will be forfeited in following cases</b>
(i)		After opening the tender, the bidder revokes his tender within the validity period or increases his quoted rate.
(ii)		The bidder does not commence the work within the stipulated period as per LOI/ Contract. In case the LOI/contract is silent in this regard, then within 15 days after award of contract.
(iii)		<b>For MSME bidders submission of EMD and tender cost will be applicable as per MSME act.</b>

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8(c)	EMD given by all unsuccessful tenderers shall be refunded normally within 15 days of acceptance of award of work by successful tenderer.	
8(d)	EMD shall not carry any interest.	
9	<b>Validity of Offer</b>	120 days from the date of opening of Technical Bid (Part-I)
10	<b>Security Deposit (SD)</b>	As per General terms & conditions
11	<b>GST</b>	18 % of quoted rate.
12	<b>PF &amp; ESI</b>	Contractor has to submit PF and ESI registration certificate after issue of LOI and before award of Work Order to him.
13	<b>Address for issue of Tender</b>	AGM(LMM), Bharat Heavy Electricals Limited Jhansi, PIN-284120

**Note:** (i) The contractors may physically visit the work place before quoting their rates.

For relevant details please visit our website "www.bhel.com" &

[www.eprocure.gov.in](http://www.eprocure.gov.in).

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Annexure B

### WORK SPECIFICATION

#### **1. SCOPE OF WORK OF THE CONTRACTOR SHALL BE AS FOLLOWING:**

For Detailed Scope of Work refer page 9.

- a. The contractor shall be responsible for "Preparation of Cable Harnessing of WAG-9HC at LMM shop". If bidder desires sample/ typical drawing of assemblies, can be provided for reference only, however the contractor shall execute the job as per the specific drawing provided by the Loco Manufacturing Deptt., BHEL, Jhansi.
- b. The scope of work also includes material preparation (cutting of Cable, Lug Crimping, Coupler Preparation, Braided Sleeve Protection etc as per the Assembly Drawing provided by BHEL and getting the jobs cleared by QC (BHEL) and Customer/ RDSO and handing over to user(shed) as per BHEL Quality Plan.
- c. The work shall conform to dimensions and tolerances given in various drawings and documents that will be provided during assembly. If any portion of works is found to be defective in workmanship and not conforming to drawings / documents, the contractor shall dismantle and re-do the work duly replacing the defective materials at their own cost, failing which recoveries, as determined by BHEL, shall be deducted from contractor's bills.
- d. The work covered under this specification is of highly sophisticated nature, requiring the best quality workmanship and supervision. The contractor should ensure proper planning and successful and timely completion of the work to meet the overall manufacturing schedule. The contractor must deploy adequate quantity of tools & plants, modern / latest fixtures etc. which are not available with BHEL to meet the plan target of LMM. He must also deploy adequate trained, qualified and experienced supervisory staff and skilled personnel.
- e. Contractor may be required to work in 3 –shifts. Contractor shall appoint qualified supervisors for A/B/C Shifts for coordination with various departments of BHEL, Jhansi. Contractor has to organize adequate work force of qualified and experienced Adequate to take up parallel working for Locomotive manufacturing shops.
- f. Crimping /cutting tools, Plier and other special tools and Fixtures shall be provided by BHEL free of cost.
- g. Testing at various stages shall be done by BHEL-QC/Customer/RDSO and proper record shall be maintained by contractor. Inspection/clearance by BHEL-QC/Customer shall be the

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responsibility of the contractor. In addition, the Contractor shall attend to any rework/modifications, as and when suggested by BHEL-QC / BHEL Engg.

- h. Maintaining proper documentation of all the activities undertaken by the Contractor as per the proforma mutually agreed with BHEL, Submission of daily/monthly progress reports and any such document as and when desired by BHEL/owner.
- i. The Contractor shall be responsible for complying with all the applicable statutory acts & laws.
- j. BHEL, Jhansi is certified for ISO 9001-2015. Quality of work to customer's satisfaction and fulfilment of system requirements are the essence of ISO 9001 certification. BHEL, Jhansi has HSE certification (ISO 14001 & OHSAS 18001) and therefore Contractor also shall organize/ plan/ perform all their activities to meet with the applicable requirements of these standards. Safety penalties as listed below from Sl. No. 1 to 13 will be liable to penalize based on letter received from safety department. For Sl. No. 14, 15 & 16 LMM/Engineer may give letter regarding NCR/penalty.

### 2. MEASUREMENT OF WORK & PAYMENT:

- i. Work shall be measured in terms of per loco basis. Payment will be made to contractor on 'Rs/Loco' basis towards completion of Cable Harness preparation at LMM shop. Vendor will be eligible to raise bill after completion of Cable Harness of each Loco. 80% payment of each loco shall be released on completion of work and balance 20% payment shall be released after dispatch of respective loco from factory premises.
- ii. The contractor shall submit his monthly RA (running account) bills with all the details required by BHEL on specified date monthly (by 1st week of the month) covering completion of work in all respects and works completed for the bill period.
- iii. BHEL shall make the payment on completion of work and clearance from BHEL (QC), RDSO and Customer as per BHEL Quality Plan.
- iv. All the payments will be subject to deduction of tax at source applicable as per law.

### 3. Estimated Quantum of Works: 18 Sets of WAG-9HC locomotives.

**Note:** The quantity indicated is a projection based on the present requirements. The quantity may increase / decrease based on BHEL's order book position and production requirements. Loading (letter order) will be given accordingly.

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4. **Delivery Period:** Contractor has to deliver the work of cable harness per set within 12 days after handing over of all required material. However, if any delay occurs on account of BHEL in providing material or other work front, that period shall be added in the completion period.
5. **LD Clause:** LD/ Penalty shall be applicable as per clause X(4) of General terms and conditions (JHS 2055C R01). Delay if attributable to firm; penalty shall be imposed @0.5% per week for delayed work for each loco and maximum up to the ceiling of 10 % of the contract value of each loco w.r.t. delayed work
6. All required input materials for assembly will be provided to contractors within 3 working days from the contractor's requisition date.
7. **Drawing and Documents:**
  - (i) The detailed drawings, specifications available with BHEL engineers will be made available to the contractor during execution/fabrication of work in shop. The contractor will also ensure availability of all drawings / documents at work place.
  - (ii) Any error or ambiguity be discovered in the specification or information the contractor shall forthwith bring the same to the notice of BHEL before commencement of work. BHEL's interpretation in such cases shall be final and binding on the contractor.
  - (iii) The data furnished in various annexure enclosed with this tender specification are only approximate and for guidance. However, the change in the design and in the quantity may occur as is usual in any such large scale of work. The contractors quoted rates shall be inclusive of the above factors.

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## Total activities to be performed under this contract

Module No.	Description	Module No.	Description
73181	120 sqmm cable cutting	73209	Aux cable loom covered braid sleeve
73182	120 sqmm cable lug crimp, shrink & Com tagging	73210	cabin wiring loom covered braid sleeve
73183	70 sqmm all aux cable cutting and final tag	73211	screen cable loom number tag
73184	70 sqmm cable lug crimping and shrinking	73212	Aux cable loom number tag
73185	50 sqmm all aux cable cutting and final tag	73213	cabin wiring loom number tag
73186	25 sqmm all aux cable cutting and temp tag	73214	control cable loom number tag
73187	35 sqmm all aux cable cutting and temp tag	73215	battery cable loom number tag
73188	6 sqmm all aux cable cutting and temp tag	73216	61 Pin coupler prep. & sequencing
73189	10 sqmm all aux cable cutting and temp tag	73217	61 Pin screen cable coupler prep. & sequencing
73190	2.5 sqmm all aux cable cutting and temp tag	73218	35 Pin coupler prep. & sequencing
73191	150 sqmm power cable cutting and temp tag	73219	35 Pin screen cable coupler prep. & sequencing
73192	150 sqmm power cable lug crimp & final tag	73220	37 Pin coupler prp & sequencing
73193	All sensor cable loom cut & temp tag	73221	22 Pin screen coupler prep & sequencing
73194	All loom cutting & temp tag Cab-1	73222	19 Pin screen cable prep & sequencing
73195	All loom cutting & temp tag Cab-2	73223	13 Pin coupler prep. & sequencing
73196	All battery loom cutting and temp tag	73224	7 Pin coupler prep. & sequencing
73197	95 sqmm power cable loom cut & final tag	73225	4 Pin (2.5mm) coupler prep & sequencing
73198	70 sqmm all loom cut & final tag	73226	4 Pin (25mm) coupler prep & sequencing
73199	2.5 sqmm control cable loom cut & final tag	73227	4 Pin (35mm & 50mm) coupler prep & sequencing
73200	2*2*1+S cable loom cutting & temp tag	73228	9 Pin screen cable sub-D coupler prep& sequencing
73201	2*1+S cable loom cutting & temp tag	73229	5 Pin screen cable coupler prep & sequencing
73202	2*2*0.5+S cable loom cutting & temp tag	73230	9 Pin screen with HOS LI coupler prep & sequencing
73203	5*0.5+S cable loom cutting & temp tag	73231	22 Pin coupler prep. & sequencing
73204	3*4*1+S cable loom cutting & temp tagging	73232	All TM sensor Coupler prep. & sequencing
73205	25*0.5+S cable loom cutting & temp tag	73233	All TM sensor Coupler plate mounting & earthing
73206	9*0.5+S cable loom cutting & temp tag	73234	Oil Pressure & oil temp coupler prep

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73207	screen sensor cable loom cov braid hose	73235	7 Pin coupler of HB -2 panel prep
73208	control cable loom cov. Braid sleeve	73236	Additional coupler prep for break SIST Cab-1 & Cab-2

Annexure – 'C'

### Qualifying Requirement

SI No	Description of Qualifying Requirement
1.	<p><b>Average Annual financial turnover</b> during the last 3 years ending 31<sup>st</sup> March 2022, should be at least <b>Rs. 2,88,900/-</b> approx.</p> <p>The following documents to be submitted</p> <ul style="list-style-type: none"><li>i) A certificate from CA dully vetting the turnover. "OR"</li><li>ii) Audited balance sheet &amp; Profit and loss statement.</li></ul> <p><i>If T/o details of 3 years are not available then available years T/o shall be evaluated by dividing it by 3.</i></p>
2.	<p><b>Work Experience:</b> ( Bidder should fulfill any one of the following):</p> <p>Experience of having successfully completed <b>similar works*</b> (defined below) during last 7 years of month before the one in which applications are invited either of the following.:-</p> <ul style="list-style-type: none"><li>a. Three similar completed works each valuing not less than the amount equal to <b>Rs 3.85 Lakh. OR</b></li><li>b. Two similar completed works each valuing not less than the amount equal to <b>Rs 4.82 Lakh. OR</b></li><li>c. One similar completed works each valuing not less than the amount equal to <b>Rs 7.70 Lakh.</b></li></ul> <p><b>*Similar Work</b> means any service or works contract of requisite value in any PSU/CPSU/State govt./ Central Govt./ Private sector involving manufacturing/maintenance or assistance in manufacturing/maintenance activities of electric equipment or Electric locomotives / Diesel Electric locomotive:</p> <ul style="list-style-type: none"><li>i). Completion Certificate/ proof of completion</li><li>ii). Work Order /Purchase Order</li><li>1. iii). TDS Certificate (in addition to above, in case of experience in Private Sector).</li></ul>
3.	Contractor Should have PAN number.
4.	Contractor Should have GST (PAN based)
5.	Bidders are required to submit a self-declaration on their letter head as per the Format enclosed in <b>Annexure E.</b>
6.	<p>The documents required for legal entities under whose name and style Contractor has participated in the tender are as follows:</p> <ul style="list-style-type: none"><li>6.1) Partnership Firm: Partnership Deed registered at the office of Registrar of Firms.</li><li>6.2) Company: Certified copy Memorandum of Association, Article of Association and Incorporation Certificate.</li></ul>

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SI No	Description of Qualifying Requirement
	6.3) Society: Registration certificate issued by Registrar of societies. 6.4) Sole Proprietor-ship Firm: Undertaking on oath (On Company's letter head) that Proprietor is solely responsible for all rights and liabilities while working under the name and style of Sole Proprietorship firm namely ( _ ). 6.5) Limited liability partnership agreement registered under company's act.

ANNEXURE D

## PROFORMA FOR SUBMITTING TECHNICAL BID

1	Name of the firm <b>(Essential)</b>	
2	Address and Contact Numbers <b>(Essential)</b>	
3	Name of the Proprietor <b>(Essential)</b>	
4	Registration Number of the Firm <b>(Essential)</b>	
	Copy of the Certificate	Enclosed / Not Enclosed
5	PAN/TAN Number <b>(Essential)</b>	
6	GST Number(PAN Based) <b>(Essential)</b>	
7	Experience Certificate (Along with balance sheet & profit and loss account/ turnover certificate issued by CA) <b>(Essential)</b>	Enclosed / Not Enclosed
8	Earnest Money Deposit <b>(Essential)</b>	Rs. 19260/-
	Receipt No. & Date	
	Electronic fund Transfer no. (Bank)	
9	Validity of offer	120 days from the date opening of technical bid
10	Blank Price bid 'JS-472' <b>(Essential)</b>	Enclosed / Not Enclosed
11	Valid E-Mail Id <b>(Essential)</b>	
12	Participation in RA	YES / NO

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13	Proprietorship/ partnership deed	
14	Acceptance of General Terms & Conditions	YES / NO
15	Submission of Security Deposit after issue of LOI and before award of Work Order to contractor.	YES / NO

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