



1/2

Report ID: GEM/GARPTS/22052026/RPUH5VEVC9N7

Report Name: Function generator [2 ch/25MHz]

Generated By: Syamala Rao D M , Department of Heavy Industry , Ministry of Heavy Industries and Public Enterprises

Generated On: 22/05/2026

Valid till: 21/06/2026

### GeM Availability Report and Past Transaction Summary

GeM Availability Report and past transaction summary report is generated based on the specifications searched by the Buyer. The specification may be modified appropriately for searching relevant categories on GeM. Buyer may navigate to GeM category page by clicking on the category link to view category specifications and products/services available in the category.

*Order Count and Order Value displayed is on a cumulative basis since GeM inception.*

#### 1. Search String: Function generator [2 ch/25MHz]

Search type: Product

1. There are categories available on GeM matching your requirements (as listed here). You can create a bid on GeM with a product closest matching your required specifications and add additional parameters in specifications through Corrigendum using RMS functionality.
2. If you feel that category TP needs updating you can submit category updating request also through RMS.
3. If you do not want to use any of the above option and want to proceed for procurement outside GeM, please suggest the specifications of the required product for creation of new category on GeM for future procurement.

Search Result: Category available/suggested on GeM but marked as "not matching requirements" by the buyer with undertaking as under:

*It is certified that I have thoroughly checked all probable categories suggested by GeM and I am satisfied that the product required is not covered / does not fall in any of the suggested categories and can not be procured under any of these categories even after inclusion of List of Values( LOV) wherever possible in category specifications of suggested categories. It is also certified that the technical specification requirement are such that these can not be covered even by adding specification parameters using ATC in any of the GeM suggested categories. This is a one-time requirement hence new category creation is not proposed / or requirement is recurring but request for new category creation will be submitted separately post generation of GeMARPTS.*

Estimated Value Of Procurement: ₹ 552240.0

Category Name	Order Count				Order Value (in Lakhs)			
	Catalog Count	Direct Purchase	Reverse Auction	Bid	Direct Purchase	Reverse Auction	Bid	
function generator	1,510	1,640	47	417	1,559	283	1,660	
XLPE Cable for Working Voltage up to and Including 1.1 KV Marked To IS 7098 (Part 1)	50,759	18,158	3,701	8,293	36,477	11,532	69,176	
2-Chlorobenzaldehyde	14	26	0	0	4	0	0	
Chest Press (Version 2)	280	668	20	60	688	14	70	
PVC Insulated Unsheathed Cable with Flexible Conductor ISI Marked To IS 694	4,571	5,141	493	498	1,455	447	823	

2/2

Category Name	Order Count				Order Value (in Lakhs)		
	Catalog Count	Direct Purchase	Reverse Auction	Bid	Direct Purchase	Reverse Auction	Bid
Chlorine (CL 2) Detector (V1)	3	0	0	1	0	0	0
Diesel Power Generator (up to 900 KVA)	27,347	3,293	901	2,740	18,166	23,873	54,960
Chlorpynphos 2% Emulsifiable Concentrate (EC)	0	0	0	0	0	0	0
PVC Insulated Copper Cable Single Core and Multi Core Circular Sheathed with Rigid Conductor (V2) ISI Marked To IS 694	2,813	7,465	338	268	3,412	453	530
Sodium Chlorite (V2)	18	12	2	0	12	236	0

*mi*

ಬೆಂಕಟೇಶ್ ಟಿ., ಕಿರಿಯ ವ್ಯವಸ್ಥಾಪಕರು/ಉಪನಿರ್ದೇಶಕರು  
 ವೆಂಕಟೇಶ್ ಟಿ., ವರಿಷ್ಠ ಪ್ರವರ್ಧಕ/एस ए.-टेस्टिंग  
 VENKATESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



**Report ID:** GEM/GARPTS/22052026/VRX98B63K4PJ

**Report Name:** Dual channel 30 MHz function generator

**Generated By:** Ishwar Kumar Chaudhary , Department of Heavy Industry , Ministry of Heavy Industries and Public Enterprises

**Generated On:** 22/05/2026

**Valid till:** 21/06/2026

### **GeM Availability Report and Past Transaction Summary**

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*Order Count and Order Value displayed is on a cumulative basis since GeM inception.*

#### **1. Search String: Dual channel 30 MHz function generator**

Search type: Product

1. There are categories available on GeM matching your requirements (as listed here). You can create a bid on GeM with a product closest matching your required specifications and add additional parameters in specifications through Corrigendum using RMS functionality.
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*It is certified that I have thoroughly checked all probable categories suggested by GeM and I am satisfied that the product required is not covered / does not fall in any of the suggested categories and can not be procured under any of these categories even after inclusion of List of Values( LOV) wherever possible in category specifications of suggested categories. It is also certified that the technical specification requirement are such that these can not be covered even by adding specification parameters using ATC in any of the GeM suggested categories. This is a one-time requirement hence new category creation is not proposed / or requirement is recurring but request for new category creation will be submitted separately post generation of GeMARPTS.*

Estimated Value Of Procurement: ₹ 105000.0

Category Name	Catalog Count	Order Count			Order Value (in Lakhs)		
		Direct Purchase	Reverse Auction	Bid	Direct Purchase	Reverse Auction	Bid
function generator	1,510	1,640	47	417	1,559	283	1,660

## REQUEST FOR QUOTATION - ONLINE BIDDING



BHARAT HEAVY ELECTRICALS LIMITED  
Electronics Division  
PB No. 2606, Mysore Road Bangalore - 560026  
INDIA

RFQ NUMBER:  
NKRE000016

MMI:PU:RF:003

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. "Quotation to be submitted in E Procurement portal only"

(for all correspondence)  
Purchase Executive : Nilmani Kumar  
Phone : 26998663  
Fax :  
E-mail: nilmanikumar@bhel.in

Sl No.	Description	Qty	Unit	Delivery qty
1	KA9012610346 Function generator [2 ch/25MHz] * HSN/SAC :  Function generator [2 ch/25MHz]	5	NO	5
2	KA9012610524 Dual Channel 30 MHz arbitrary function * HSN/SAC :  1.Output Function: Standard and arbitrary waveform 2.Frequency: 30MHz 3.No of BNC Outputs:2	5	NO	5

Total Number of Items - 2

- 1.
- 2.

**NOTES:**

1. This RFQ is governed by:

b) Any other specific Terms and Conditions mentioned. of offers are required to furnish authorization letter for the same.

2. Tender Result can be viewed in the website.

\* The HSN/SAC no mentioned against the line items in the RFQ are indicative only.

For and On behalf of BHEL.

Nilmani Kumar  
Control Equipment

## RFQ SUMMARY/APPROVAL SHEET

Coll RFQ No.	RFQ Due Date	Pur Organisation	Purchase Officer	Report Date
NKRE000016	02.06.2026	Control Equipment	Nilmani Kumar	23.05.2026
Type of tender	Single / Two part		Tech BID/Price BID / Both	
OPEN	Two Part		Technical	

## LIST OF RFQS, VENDORS AND OTHER DETAILS

RFQ Number	Vendor Code	Vendor Name	Grade
6400163851	D565767	SHYLENDRA ELECTRONICS BANGALORE	
6400163852	E564868	CONCEPT ELECTRONICS PVT. LTD. BANASHANKARI 2ND STAGE, BANGALORE	

SL NO	Approval is sought For(Tick in SELECT column as applicable)	SELECT
1	Inviting tender (As per DOP clause no.2 of purchase policy 2013).	
2	Reduction in submission time of offers due to reason indicated below.**	
3	Not addressing RFQ to the following vendor(s) due to the reasons indicated below.**	
4	Addressing RFQ to following registered suppliers with low performance rating as per SEARP.**	
5	Addressing Limited tender enquiry to the following suppliers short listed through EOI.**	
6	Addressing Limited tender enquiry to following unregistered supplier referred by customer with recorded reasons.**	
7	Higher authority approval as per DOP/Purchase Policy is not required.	
8	Approval for not floating Open Tender for Estimate value more than 1 Cr ***.	

Remarks:

Proposed By

Approved By

NOTE: Vendor Rating logic  
Vendor rating is calculated for Last Financial Year and lapsed period of current year or last three completed orders whichever is more  
And it is applicable only for shop items.

**RFQ SUMMARY/APPROVAL SHEET**

Coll RFQ No.	RFQ Due Date	Pur Organisation	Purchase Officer	Report Date
NKRE000016	02.06.2026	Control Equipment	Nilmani Kumar	23.05.2026
Type of tender	Single / Two part		Tech BID/Price BID / Both	
OPEN	Two Part		Technical	

NOTE: Tick if applicable

For less than four registered vendors in PMD(Cl 5.2.2 of Purchase policy 2013)

Process as in clause no.3.4 of Purchase Policy 2013 is being followed.

\* Approval by next higher authority(As per cl 8.2 of purchase policy 2013).

\*\* Approval by HOD MM / Product Manager not below the rank of AGM  
(As per cl 5.2.1 of purchase policy 2013).

\*\*\* Approval by Unit Head as per corporate circular no 35 of 2017-18

**RFQ SUMMARY/APPROVAL SHEET**

Coll RFQ No.	RFQ Due Date	Pur Organisation	Purchase Officer	Report Date
NKRE000016	02.06.2026	Control Equipment	Nilmani Kumar	23.05.2026
Type of tender	Single / Two part		Tech BID/Price BID / Both	
OPEN	Two Part		Technical	

**LIST OF ITEMS AND OTHER DETAILS**

Material No.	Description				Remarks
PR No / Date	PR. Item	RC. Qty	Unit rate	Value	Del date
KA9012610346	Function generator [2 ch/25MHz]				
NA	NA	5.000		As per Estimate	AS PER PO

KA9012610524	Dual Channel 30 MHz arbitrary function				
NA	NA	5.000		As per Estimate	AS PER PO

<b>Total Value category</b>				<b>E</b>
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Tender Ref No: NKRE000016

**BHEL-ELECTRONICS DIVISION, BENGALURU**  
**COMMON PURCHASE DEPARTMENT**  
**NOTICE INVITING TENDER**

1.	<b>Tender Ref No:</b>	<b>NKRE000016</b>
2.	Tender Type	Open Tender -Two part ( e-Tender)
3.	Scope of Procurement	SUPPLY OF ITEMS AS PER RFQ AT BHARAT HEAVY ELECTRICALS LIMITED (BHEL) -EDN/ESD, BANGALORE.
4.	Delivery Location	<b>BHEL-EDN, BANGALORE-560 026</b>
5.	Contract Period and Delivery Schedule	Supply within <b>70 Days</b> from the date of Purchase Order (PO) and Installation & Commissioning within <b>02 Week</b> from date of intimation by BHEL-EDN.
6.	Earnest Money Deposit Amount	<b>NOT APPLICABLE</b>
7.	Contents of Tender Document.	<b>A] Part-I Techno-Commercial Bid</b> Instruction to Bidders and Check list Technical Bid Commercial Bid PQR and Purchase Specification Annexures-A to J <b>B] Part- II Price Bid</b> Price bid ( For Price Break up)
9.	Submission of offer	To be submitted electronically on eProcurement System  <a href="https://eprocurebhel.co.in/">https://eprocurebhel.co.in/</a>
10.	Due date and time for Submission of offer	Refer eProcurement portal
11.	Due date and time for Opening of Technical bid	Refer eProcurement portal
12.	Contact details for queries related to tender	<b>Shri. Nilmani Kumar</b> , Manager / CE-MM, BHEL-EDN, Bengaluru. Contact No:080 26989063 ; e-mail: nilmanikumar@bhel.in;
13.	Address of Tender Inviting Authority	<b>Shri. Y K Jawarkar</b> , Sr. DGM Common Purchase Department (CPD) 2 <sup>nd</sup> Floor, New Engineering Building BHEL-Electronics Division, Mysore Road Bengaluru-560026

Contractor Signature

Contractor Seal

**INSTRUCTIONS TO THE TENDERER**

- The bidder shall submit the bid online by logging in to user account of bidder on eProcurement System as specified in NIT. Offer submitted by any other mode is not acceptable.
- ~~The bidder has to upload the scanned copy of all the mentioned original documents (in colour) during online bid submission. It is advised that all the documents to be submitted are kept scanned or converted to PDF format in a separate folder in their computer before starting online submission.~~
- Bidder shall ensure that the total size of the scanned documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at 150 dpi. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.
- ~~The tender documents must be signed digitally / physically by Partner/ Director of the Firm or by the person holding the Power of Attorney on behalf of the Firm concerned for having accepted the conditions and upload on Government e Marketplace portal. In the latter case, a copy of Power of Attorney, duly attested by a Notary Public must accompany the offer.~~
- Bidder are advised not to wait till the last minutes or last few seconds w.r.t tender closing time to submit their offer to avoid complications related with internet connectivity / network problem/ power failure etc.
- ~~Tenderer should arrange for the EMD as specified in the tender. EMD should be submitted as per Part I(A)/Prequalification Bid/EMD (including EMD waiver, if any).~~
- ~~In case EMD is paid through offline payment mode, the original should be posted/couriered/given in person in a sealed cover super scribing 'Tender number/date/Part I(A)/EMD' to the Tender Inviting Authority, within the bid submission date and time for the tender.~~
- ~~Techno-commercial bid will be considered only, if the Part I(A)/Prequalification Bid/EMD is valid. EMD in any other form or tender without EMD will be summarily rejected.~~
- ~~In case of offline payments, the hardcopies of Earnest Money Deposit (EMD) document/ DD submitted to CCD/BHEL EDN, Bengaluru and the soft copies uploaded at the time of online bid submission should be the same, otherwise the tender will be summarily rejected.~~
- Any deviation to this tender terms & conditions, and schedules of this tender will lead to rejection of the offer.
- Tenderer who have been suspended or black listed or issued with "Show Cause Notice" by **BHEL-EDN, Bengaluru** or any other unit of BHEL or GOI will not be allowed to participate in the tender and bidder should declare the same in the tender. Even during the course of evaluation/ finalization of tender if it is found that the tenderer is black listed/ barred from business transaction/ under business hold, BHEL will not consider them for further participation in the tender.
- Should a tenderer find discrepancies or omissions in the tender documents, or should there be any doubt as to their meaning, he should at once address the authority inviting the tender, for clarification well before the due date, so as to submit his tender in time. No extension of time shall be given for submission of the tender on any account.
- Rates should be quoted as per the Work / Rate schedule (Price bid/Part –II). Rates quoted in any other form will not be accepted and will be rejected.
- If a tenderer deliberately gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, the BHEL will reject such offer at any stage.
- Words imparting singular number shall be deemed to include plural number and vice-versa where the context so requires.
- Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the Contractors who resort to canvassing will be liable for rejection.
- Should a Tenderer's or a Contractor's or in the case of a firm or company of contractors/any of its shareholder's or shareholder's relative is employed in BHEL, the authority inviting the tenders shall be informed in writing of this fact at the time of submission of the tender, failing which the tender may be disqualified, or if such fact subsequently comes to light, the contract may be cancelled.
- BHEL reserves the right to cancel the tender at any stage due to unavoidable circumstances.

Contractor Signature

Contractor Seal

**CHECK LIST FOR SUBMISSION OF OFFER**

Bidder shall submit the offer in two parts as Part-I (Techno-commercial Bid) and Part-II (Price Bid)

**Part -I (Techno -Commercial bid)** shall contain following documents:

- a) Duly filled and signed Technical Bid
- b) Duly filled and signed Commercial Bid
- c) Annexures
- d) Supporting documents
- e) Duly signed copy of **Unpriced Price Bid**.

**Part-II (Price Bid)**

Price break-up of quoted rates shall be uploaded as per price bid format.

Sl. No	Description	Remarks
1	<b>Check list for Part-I: Techno commercial Bid</b>	
1.1	All information requested in <b>Technical Bid</b> provided along with supporting documents enclosed.	Signed Copy of Technical Bid <input type="checkbox"/> Uploaded / <input type="checkbox"/> Not uploaded
1.2	Technical Specification of Offered Equipment meets the Purchase Specification as per Tender.	<input type="checkbox"/> Yes / <input type="checkbox"/> No Product Catalogue of Offered Equipment <input type="checkbox"/> Uploaded / <input type="checkbox"/> Not uploaded
1.3	All information requested in <b>Commercial Bid</b> provided along with supporting documents enclosed.	Signed Copy of Commercial Bid <input type="checkbox"/> Uploaded / <input type="checkbox"/> Not uploaded
1.4	Duly Filled and signed copy of Annexures as applicable	Annexures requested to meet the Pre-qualification criteria as part of Techno Commercial Bid <input type="checkbox"/> Uploaded / <input type="checkbox"/> Not uploaded
1.5	Unpriced Price Bid Copy	<input type="checkbox"/> Uploaded / <input type="checkbox"/> Not uploaded
2	<b>Check list for Part-II: Price Bid</b>	
2.1	Price breakup is uploaded as per Price bid format.	<input type="checkbox"/> Price breakup as per Price bid uploaded.

Contractor Signature

Contractor Seal

**Tender Ref No: NKRE000016**

<b>NAME OF THE PROCUREMENT:</b> SUPPLY OF ITEMS AS PER RFQ AT BHARAT HEAVY ELECTRICALS LIMITED (BHEL)/EDN/ESD, BANGALORE.	
<b>TENDER REF NO: NKRE000016</b>	
<b>PART-I (TECHNO -COMMERCIAL BID)</b>	
<b>A</b>	<b>TECHNICAL BID</b>
<b>BIDDER PROFILE</b>	
<b>NAME OF TENDERER:</b>	
<b>Bidder shall provide Information related to their Organization.</b>	<b>Information related to Organization</b> <input type="checkbox"/> Enclosed with offer. <input type="checkbox"/> Not enclosed with offer.
<p>Bidder Shall provide basic information as per Attached Format. Additional Information may also be enclosed as separate Annexure.</p> <p>The information provided shall be used for communication with the bidder w.r.t Tender.</p> <p><b>Following document shall also be enclosed</b></p> <ol style="list-style-type: none"><li>1) Income Tax Registration (PAN)</li><li>2) GST Registration.</li><li>3) Certificate of Incorporation (As applicable)</li><li>4) Partnership Deed (As applicable)</li><li>5) Power of Attorney (As applicable)</li></ol>	

Contractor Signature

Contractor Seal

1 STATUS OF THE BIDDER				
	QUALIFYING PARAMETER	QUALIFYING VALUE	BIDDER'S RESPONSE	REMARKS
	<b>OEM / Authorized Dealer</b>	Bidder shall be Original Equipment Manufacturer (OEM) or its Authorized dealer.	Bidder has quoted as  <input type="checkbox"/> OEM ( Original Equipment Manufacturer)  <input type="checkbox"/> Authorized Dealer  Name of OEM: ..... ..... In case of Authorized Dealer: <b>Authorization letter from OEM</b>  <input type="checkbox"/> Enclosed with offer.  <input type="checkbox"/> Not enclosed with offer.	
<p>Foreign OEM with Authorized Indian dealer / Representative for Sales, Spares and Services may also participate.</p> <p>In case Bidder is an Authorized dealer, Bidder shall submit a current authorization letter from OEM for the offered Equipment. The authorization letter shall contain the contact details (Name of contact Person, Postal Address, e-mail and Phone number) of OEM.</p> <p><del>In case an Authorized dealer wants to submit Offer for <b>Equipment of different models</b> meeting the Purchase specification, separate offer for each model shall be submitted.</del></p> <p>An authorized dealer cannot quote for the same equipment from more than one OEM.</p>				

Contractor Signature

Contractor Seal



**Report ID:** GEM/GARPTS/17042026/VMAYDTESV041

**Report Name:** GEMREPORT1

**Generated By:** Santhosh Mahadevan , Department of Heavy Industry , Ministry of Heavy Industries and Public Enterprises

**Generated On:** 17/04/2026

**Valid till:** 17/05/2026

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Search type: Product

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function generator	1,501	1,627	47	414	1,544	283	1,640

  
 DEEPTHI A.B., SYSTEMS SERVICE ROOM, (SYSTEM TESTING)  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



# Purchase Requisition

P.R. No. P.R. Date	2000058786 04.04.2026	Rev.No : Date :	2	Requisitioner
PLANT Common		Purchase Officer Nilmani Kumar		Value Category D

Item : Dual channel 30MHz Arbitrary Function generator  
 suggested vendors : M/s Shylendra electronics  
 M/s Concept electronics  
 M/s Integrated Services and Consultancy

Item No.	Material Number / Description	Total Quantity	Unit Rate	Value	Delivery Date
00010	KA9012610524 / Dual Channel 30 MHz arbitrary function Doc Ref      Doc Ver 1.Output Function: Standard and arbitrary waveform 2.Frequency: 30MHz 3.No of BNC Outputs:2	5 NO	As Per Estimate	As per Estimate	10.08.2026

*(This area is intentionally left blank for additional details or comments.)*

Indentor	Approved By
 <b>DEEPTHI K.B.</b> DEEPTHI K.B., Dy. GENERAL MANAGER/CE-SYSTEM TESTING BHEL-EDN, MYSURU ROAD, BENGALURU-560026	 <b>SRIKANTH B.</b> SRIKANTH B., Dy. GENERAL MANAGER/CE-SYSTEM TESTING BHEL-EDN, MYSURU ROAD, BENGALURU-560026



**Specification for Dual channel 30  
MHz Function generator/Arbitrary**

Ref: CE-ST/SPEC/26-27/B13FR/01

Rev.: 01

Page 1 of 5

Sl No	Pre-qualification criteria (Compliance to be given as per Annexure-1)
1	Original Equipment Manufacturer (OEM) or their authorised dealer can submit the offers. The dealer should submit a current authorisation letter from the OEM. The authorisation letter should give the contact details (name of contact person, postal address, and email and phone number) of the OEM. An authorised dealer cannot quote for the equipment from more than one OEM.
2	Original Equipment Manufacturer (OEM) or their authorized dealer should submit Internal test reports to BHEL before delivery of the clamp meters.
3	The OEM or their authorized representative shall provide prompt after sales and service support <b>at Bengaluru, Karnataka</b> only by trained technical people/ engineers for the offered equipment with spares support. If done by an authorised representative a declaration to this effect to be furnished by the representative along with the authorisation letter from the OEM.
4	The vendor should have supplied in India, since 01/01/2019, at least 1 number of function generators of minimum rating of <b>10MHZ or more</b> . Details of the customers where supplied with full contact details to be furnished in <b>Annexure-1</b> along with offer.  BHEL at its discretion may independently approach any user for checking the performance of the reference supplies and after sales support. In case of any adverse remarks by the users, BHEL reserves the right to reject the offer.
5	Offer shall be for a new equipment and not for any refurbished / used equipment. All the parts used in the equipment shall be new and not used / refurbished ones.
6	The vendor shall furnish a comprehensive warranty for at least 18 months from the date of delivery or 12 months from the date of commissioning whichever is earlier.

**NOTE:**

- Pre-qualification will be carried out based on the details furnished by the vendor/ feedback from their customers/ inspection of the company/ product if required by BHEL.
- The Pre-qualification criteria are **mandatory requirements** for consideration of technical evaluation.
- **PQC Compliance to be filled as per Annexure-1. Annexure-1 to be submitted along with the offer, failing which offer will not be considered for technical evaluation.**

Date: 08/04/2026

Prepared By:

(DEEPTHI R B)

Approved By:

(SRIKANTH B)



# Specification for Dual channel 30 MHz Function generator/Arbitrary

Ref: CE-ST/SPEC/26-27/B13FR/01

Rev.: 01

Page 2 of 5

## SPECIFICATIONS CUM COMPLIANCE

(To be filled, signed and submitted by the vendor along with the offer)

Sl No.		Technical Parameters	Requirement	Vendor's remarks	
1	i	<b>Output Function</b>	Standard and Arbitrary Waveforms.		
	ii	<b>Standard Waveforms</b>	Sine, Square, Pulse, Ramp/Triangle.		
	iii	<b>No of BNC outputs</b>	Two		
	iv	<b>Instrument type</b>	Table top		
2		<b>Waveform Characteristics</b>			
		<b>Sine wave</b>			
	i	Frequency Range	From $\leq 1.0$ Hz to 30 MHz		
	ii	Sine wave Flatness	0.15 dB up to 5 MHz		
			0.3 dB from 5 MHz to 30 MHz		
	iii	Total Harmonic Distortion	$\leq 0.2\%$ 45 Hz up to 20 KHz		
	iv	Harmonic Distortion (at 1 Vpp)	-65 dBc 45 Hz up to 20 KHz		
			-60 dBc 20 KHz to 100 KHz		
			-45 dBc 100 KHz to 1 MHz		
			-35 dBc 1 MHz to 30MHz		
	v	Spurious (Non Harmonic)	$\leq -60$ dBc (45 Hz to 1.0MHz) $\leq -40$ dBc (1.0MHz to 30MHz)		
	vi	Phase noise (at 10 KHZ offset)	$\leq -90$ dBc /Hz		
	b		<b>Square Wave</b>		
		i	Frequency Range	From $\leq 1.0$ Hz to 10 MHz	
		ii	Rise /Fall time	$\leq 18$ ns	
		iii	Overshoot	$< 5\%$	
		iv	Jitter	100 ppm of period + 1 ns	
	c		<b>Pulse</b>		
		i	Frequency Range	From $\leq 1.0$ Hz to 5 MHz	
		ii	Width	Min. 30ns	
		iii	Resolution	10 ns.	
		iv	Over Shoot	$< 5\%$	
v		Jitter	0.1 ppm of period + 500 ps		
d		<b>Triangle/Ramp wave</b>			
	i	Frequency Range	From $\leq 1.0$ Hz to 200 KHz		
	ii	Linearity	$\leq 0.1\%$ of peak output		
	iii	Symmetry	0% to 100%		
e		<b>Arbitrary Waveform</b>			
	i	Frequency	From $\leq 1.0$ Hz to 5 MHz		
	ii	Waveform Length	Up to 64 K points.		

Date: 08/04/2026

Prepared By:

DEEPTHI K. B., SR. MANAGER/CE-PROD. (SYSTEM TESTING)  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026  
(DEEPTHI K B)

Approved By:

SRIKANTH B., DY. GENERAL MANAGER/CE-SYSTEM TESTING  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

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# Specification for Dual channel 30 MHz Function generator/Arbitrary

Ref: CE-ST/SPEC/26-27/B13FR/01

Rev.: 01

Page 3 of 5

	iii	Sample Rate	50 MSa/s
	iv	Amplitude Resolution	14 bits (including sign)
	v	Non Volatile memory	4 waveforms.
<b>3</b>		<b>Output Characteristics</b>	
<b>a</b>		<b>Frequency</b>	
	i	Resolution	< 1.0 Hz for output freq < 1Hz 1 Hz for output freq 1Hz to 30 MHz
	ii	Setting Accuracy	0.003% (30 PPM)
<b>b</b>		<b>Amplitude</b>	
	i	Output level	10 mVpp to 10 Vpp into 50 Ω load.
	ii	Resolution	1mV for output of 10 mVpp to 1 Vpp. 10 mV for output of 1Vpp to 10Vpp
	iii	Accuracy ( at 1KHz)	± 1 % of setting +1 mVpp.
<b>c</b>		<b>Offset DC</b>	
	i	Range (AC ampl. + DC)	± 5 V or more into 50 Ω load.
	ii	Accuracy	± 3 % or better of set value.
<b>4</b>		<b>Sweep</b>	
<b>a</b>		Wave form	Square
<b>b</b>		Type	Linear
<b>c</b>		Sweep Time	Up to 5 minutes
<b>d</b>		Trigger	Manual
<b>5</b>		<b>Main output</b>	
<b>a</b>		Impedance	50 Ohms (Typical)
<b>b</b>		Output connection	BNC in front panel.
<b>c</b>		Output protection	Protection against output short circuit.
<b>6</b>		<b>External Trigger</b>	
<b>a</b>		Input Level	TTL compatible
<b>b</b>		Slope	Rising or falling (+ / -)
<b>c</b>		Pulse Width	>= 100 ns
<b>7</b>		<b>Trigger Output</b>	TTL compatible
<b>8</b>		<b>Modulation</b>	
<b>a</b>		Type	FM
<b>b</b>		Carrier Waveform	Square
<b>c</b>		Maximum Peak Freq. Deviation	=> 5 KHz
<b>d</b>		Source	Internal / External
<b>9</b>		<b>External Modulation Input</b>	
<b>a</b>		Modulating signal voltage range for full scale	-1 V to +1 V or -5 V to +5 V or 0 V to at least 4 V.

Date: 08/04/2026

Prepared By:

Approved By:

ದೀಪ್ತಿ ಕೆ.ಬಿ., ಒಳನಾಡು ವ್ಯವಸ್ಥಾಪಕರು/ನಿ.ಉ. - ವ್ಯವಸ್ಥಾಪಕರು  
 DEEPTHI K.B., SR. MANAGER/CE-PROD. (SYSTEM TESTING)  
 BHEL EDN, MYSURU ROAD, BENGALURU-560026  
 (DEEPTHI K.B.)

ಶ್ರೀಕಾಂತ್ ಬಿ., ಒಳನಾಡು ವ್ಯವಸ್ಥಾಪಕರು/ನಿ.ಉ. - ವ್ಯವಸ್ಥಾಪಕರು  
 SRIKANTH B., DY. GENERAL MANAGER/CE-SYSTEM TESTING  
 BHEL EDN, MYSURU ROAD, BENGALURU-560026



## Specification for Dual channel 30 MHz Function generator/Arbitrary

Ref: CE-ST/SPEC/26-27/B13FR/01

Rev.: 01

Page 4 of 5

b	Modulating signal bandwidth	DC onwards.	
10	<b>General</b>		
a	Display / Indication in front panel	Indication of waveform selected, amplitude, offset, frequency to be available. Value of parameters to be displayed when being varied.	
b	Selection/setting/variation of parameters	Selection/setting/ continuous variation of parameters to be done with either manual rotary knob or pushbuttons mounted on front panel.	
c	Input Power	230 V AC +/-5%; 50Hz +/-3 Hz.	
d	Operating Temp/Humidity	Up to 40° C ambient. Up to 80% RH	
e	Size	Bench top and portable	
f	Accessories	Power Cord and Operating manual.	
g	Certificate	Calibration certificate valid for one year to be submitted along with the equipment. Traceable to national standards.	
h	Acceptance Criteria	Demonstration of functionality of the instrument at Electronics division.	
i	Guarantee	One year from date of delivery.	

Date: 08/04/2026

Prepared By:

(DEEPTHI K B)

Approved By:

(SRIKANTH B)

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BHEL-EDN, MYSURU ROAD, BENGALURU 560025



# Specification for Dual channel 30 MHz Function generator/Arbitrary

Ref: CE-ST/SPEC/26-27/B13FR/01

Rev.: 01

Page 5 of 5

### Annexure 1

(To be filled, signed and submitted by the vendor along with the offer)

Sl No	Compliance for Pre-qualification criteria	
1	Offer Submitted by:  Name of the Vendor:	OEM / Authorized Dealer   OEM's Authorization letter Enclosed/ Not Applicable
2	Address of the OEM's/Authorized dealer .	
3	Prompt after sales service for the offered equipment will be provided by: In case of Authorized service representative:  Details of authorized service representative  Declaration by the representative (with details as mentioned in sl no. 3 of PQC) and authorization letter from OEM.	OEM / Authorized service representative.      Enclosed both / Not Applicable

Supply references :

Sl	Supplied to M/S.	Proof of Supply	Address of installation	Commissioning date	Rating KVA,HV and LV	Qty	Contact Person	Email ID	Contact Phone no.
1									
2									
3									
4									
5									

- We declare that the equipments offered by us are new and are not refurbished / used. All the parts used in the equipments shall be new and not used / refurbished ones.
- We are in position to provide after sales service and spares support for the offered equipment at Bengaluru, Karnataka by (OEM/Authorized representative).
- We comply to all the PQC requirements.

Date:

(Signature and Seal of the Vendor)

ದೀಪ್ತಿ ಕೆ.ಬಿ., ವರಿಷ್ಠ ಪ್ರबंधकसी.ई. उत्पादन (सिस्टम टेस्टिंग)  
 DEEPTHI K.B., SR.MANAGER/CE-PRODN.(SYSTEM TESTING)  
 BHEL EDN, MYSURU ROAD, BENGALURU-560026  
 (DEEPTHI K.B)

Date: 08/04/2026

Prepared By:

Approved By:

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 (SRIKANTH B)  
 SRIKANTH B., DY. GENERAL MANAGER/CE-SYSTEM TESTING  
 BHEL EDN, MYSURU ROAD, BENGALURU-560026

## PART-I (TECHNO -COMMERCIAL BID)

B	COMMERCIAL BID			
1	EARNEST MONEY DEPOSIT ( EMD ) - Not applicable			
SL	QUALIFYING PARAMETER	QUALIFYING VALUE	BIDDER'S RESPONSE	REMARKS
	<b>EMD ( Earnest Money Deposit )</b>	<del>₹ 40,000/- Proof of Payment or Valid documentary evidence for availing exemption.</del>	EMD Payment Details:	<del>Non submission of EMD amount / Valid Exemption document along with offer will lead to rejection of offer.</del>
<p>A) EMD is payable in the form of Cash deposit (Before tender opening) / Bankers Cheque / Pay order / DD / FDR drawn in favour of BHEL EDN, Bangalore (Along with offer) issued from scheduled bank / EFT payment vide SBI Collect as EMD / online payment through NEFT/RTGS (Before tender opening) is acceptable. Proof of payment (in case of EFT payment) to be enclosed along with offer.</p> <p>B) EMD is waived off for MSE (OEM) and Start Up Bidders based on submission of Valid Udyam Registration Certificate / Valid Start up Registration Certificate / Valid Registration to any other body as specified by ministry of MSME. Bidders having <del>Valid Udyam Registration Certificate and registered under Major Activity—TRADING are not eligible for EMD exemption or any other MSE benefits</del> during finalization of contract.</p> <p>C) For online payment through NEFT/RTGS the Bank details are  Bank Name : <b>State Bank of India, Branch : Chandra Layout Branch</b>  A/c No. : <b>31467498356</b> IFSC : <b>SBIN0004051</b></p> <p>The proof of E receipt must be attached along with Part – I (Techno Commercial bid).</p> <p>D) General Terms Related to EMD:</p> <p>i) Earnest Money Deposit (EMD) will not carry any interest.</p> <p>ii) Earnest Money Deposit (EMD) of the successful tenderer will be refunded to Successful Bidder on conclusion of the order / receipt of a performance security (if called in tender).</p> <p>iii) The Earnest Money Deposit (EMD) will be refunded to the unsuccessful tenderers within 30 days of award of contract / EMD of unsuccessful bidders during first Stage i.e., Technical Evaluation shall be returned within 30 days of declaration of result of first Stage i.e., Technical Evaluation.</p> <p><del>(Detailed Terms and Conditions w.r.t EARNEST MONEY DEPOSIT (EMD) shall be as per GCC.)</del></p>				

Contractor Signature

Contractor Seal

2 OFFER PRICE AND BID EVALUATION				
SL	DESCRIPTION	DETAILS	BIDDER'S RESPONSE	REMARKS
2.1	OFFER PRICE BREAK UP	<p>Bidder shall quote separate price for "Supply" and "Erection and Commissioning (E &amp; C)".  <b>The estimated percentage of E &amp; C value is 5 % of Total Offer Value ( Supply + E&amp;C)</b></p> <p>In case the quoted value is less than the value (%) specified in the tender or separate E&amp;C values are not mentioned in the offer, Value of E&amp;C portion shall be deemed to be considered as the value mentioned above &amp; accordingly supply value will be adjusted from the quoted value and balance will be released as per Payment Term indicated in tender.</p>	<p>Separate Price quoted for " Supply " and "Installation and Commissioning "</p> <p><input type="checkbox"/> Quoted / <input type="checkbox"/> Not Quoted.</p>	<p>Quoting in any other format will lead to rejection of offer.</p>
2.2	OFFER PRICE SUBMITTED IN eProcurement portal price bid BoQ	<p>The quoted offer price in eProcurement portal BoQ price bid against "Supply" and "Erection and Commissioning ( E&amp;C)" includes Material cost, Freight ,Packing &amp; forwarding charges , Installation and commissioning Charges and any other charges if/as applicable. <b>Currency shall be INR</b></p>	<p><input type="checkbox"/> The offer value is in INR</p>	<p>No separate cost apart from quoted in eProcurement portal BoQ price bid shall be considered for evaluation</p>

Contractor Signature

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2.3	BID EVALUATION	<p>The evaluation of <b>Techno-Commercially qualified offers to arrive at L1 ( Lowest Bid)</b> shall be done based on "<b>Net Cash Outflow to BHEL</b>" and the evaluation <b>Currency shall be INR.</b></p> <p>The Net cash outflow to BHEL shall be calculated as follows:  <b>Net Cash Outflow to BHEL</b>= [( Offer Price excluding applicable GST ) + (Applicable GST )-(GST Credit )]</p> <p>GST Credit is <b>available</b> for this case.  <b>Item wise lowest bidder shall be considered for award of work.</b>  <b>In case Non MSE bidder is L1, MSE bidder with the offer price in the band of L1+15 will be given preference as per MSE Act.</b></p>	<input type="checkbox"/> Accepted  <input type="checkbox"/> Not Accepted	Non acceptance will lead to rejection of offer
2.4	BID VALIDITY	<p>Quoted Prices shall remain firm during offer validity period i.e., <b>90 days from the date of Techno-commercial Bid opening.</b></p>	<input type="checkbox"/> Accepted  <input type="checkbox"/> Not Accepted	Non acceptance will lead to rejection of offer
2.5	BID VALIDITY FOR SUCCESSFUL BIDDER	<p>For Successful bidder, the award price shall remain firm during entire contract period or extended contract period.            Price variation on any account is not permissible / acceptable.</p>	<input type="checkbox"/> Accepted  <input type="checkbox"/> Not Accepted	Non acceptance will lead to rejection of offer

Contractor Signature

Contractor Seal

3 PAYMENT TERMS				
3.1	Payment Terms	<p><b>80% of Supply Value</b> shall be made within 90 days (Non-MSE Enterprise) / 60 days (Medium Enterprise) / 45 days (MSE Enterprise) from the date of receipt and acceptance of material at BHEL as per Specification along with necessary documents such as Test Certificates, Manuals or any document as per tender.</p> <p><b>20% of Supply Value and 100% of Erection and Commissioning (E&amp;C) charges</b> shall be made against E&amp;C Certificate issued by BHEL and submission of Performance Bank Guarantee (PBG).</p> <p>There shall be <b>No Advance Payment</b> against Supply or Erection &amp; Commissioning.</p>	<p><b>Payment Terms :</b></p> <p><input type="checkbox"/> Accepted</p> <p><input type="checkbox"/> Not Accepted</p>	Any deviation / Non acceptance will lead to rejection of offer.
4 DELIVERY				
4.1	Terms of Delivery	<p>FOR- BHEL- EDN , Bangalore (Delivery of Material and Services consequential to supply shall be made to <b>BHEL-EDN/BHEL-ESD, Bangalore</b> )</p>	<p><input type="checkbox"/> Accepted</p> <p><input type="checkbox"/> Not Accepted</p>	Non acceptance will lead to rejection of offer.

Contractor Signature

Contractor Seal

<p>4.2</p>	<p><b>Delivery Period:</b> Time Period for "Supply" and "Erection &amp; Commissioning (E&amp;C)"</p>	<p><b>Time period for Supply:</b></p> <p>The time period for Supply of Equipment shall be <b>10 weeks</b> from issue of Purchase order.</p> <p>The supply period includes the time required for approval of drawing and any other input from BHEL.</p> <p><b>Time Period for Erection and Commissioning (E&amp;C) :</b></p> <p>The time period for Erection and Commissioning (E &amp; C) of Equipment shall be <b>02 Weeks</b> from the date of intimation from BHEL to vendor for readiness of Site.</p> <p>Bidder shall quote their earliest schedule for Supply and E&amp;C against Schedule indicated above.</p> <p>BHEL reserves the right to accept an offer not meeting the NIT schedule.</p>	<p><input type="checkbox"/> Accepted</p> <p><input type="checkbox"/> Not Accepted</p>	
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Contractor Signature

Contractor Seal

4.3	Best possible Delivery Period as per Bidder	Bidder shall Indicate their best possible Delivery Period for " Supply" from the date of Issue of PO and best possible time for "E&C" after Intimation from BHEL. BHEL reserves the right to accept an offer not meeting the NIT schedule.	<p><b>Best possible Delivery Period for</b></p> <p>"Supply"</p> <p>.....Weeks from issue of PO.</p> <p>" Installation and Commissioning"</p> <p>.....Weeks from the date of intimation from BHEL.</p>	
4.4	Permissible Deviation in Time period for "Supply" and "E & C" w.r.t schedule mentioned in NIT which is acceptable to BHEL.	Deviation of <b>01 Week in Time period for "Supply"</b> and <b>01 Week in Time period for "E&amp;C"</b> w.r.t Delivery Period mentioned in NIT shall be acceptable.	<p>No Deviation in delivery Period Sought.</p> <p><b>Deviation in Delivery Period</b></p> <p><b>For "Supply ":</b></p> <p>..... Weeks beyond the Delivery Schedule as Per NIT).</p> <p><b>For " Installation and Commissioning "</b></p> <p>: .....Weeks beyond the Delivery Schedule as Per NIT).</p>	Any deviation beyond permissible deviation in Delivery Period will lead to rejection of offer.
4.5	Rescheduling of Deliveries	BHEL reserves the right of postponement, rescheduling or staggering of delivery based on the project schedule. No compensation / payment shall be admissible on account of rescheduling of deliveries.	<p><input type="checkbox"/> Accepted</p> <p><input type="checkbox"/> Not Accepted</p>	Non acceptance will lead to rejection of offer.

Contractor Signature

Contractor Seal

5	LD AND PENALTY			
5.1	Penalty for delay in "Supply" and "Erection & Commissioning (E & C)"	<p>Penalty on delay in "Supply" and / or "E &amp; C" will be applicable for the delays attributable to vendor.</p> <p>Penalty will be considered separately for "Supply" and Erection and Commissioning (E &amp; C) w.r.t delivery schedule mentioned in PO.</p> <p>For the purpose of penalty for delay in "Supply" of the equipment the duration shall be reckoned from the date of issue of Purchase order by BHEL.</p> <p><b>The Penalty for delayed supply</b> shall be @0.5% per week of delay of Total PO value (Supply + E&amp;C) in E&amp;C subject to maximum of 10% of total PO value.</p> <p><b>The Penalty for delayed E&amp;C</b> shall be @0.5% per week of delay of Total PO value (Supply + E&amp;C) in supply subject to maximum of 10% of total PO value.</p> <p>Maximum penalty for delay in Supply and E&amp;C together shall be limited to 15% of Total PO value.</p>	<input type="checkbox"/> Accepted  <input type="checkbox"/> Not Accepted	Non acceptance will lead to rejection of offer

Contractor Signature

Contractor Seal

6 PERFORMANCE SECURITY				
6.1	Contract Execution Bank Guarantee (CEBG): (Applicable for Successful Bidder)	<p>The successful bidder shall furnish a Contract Execution Bank Guarantee (CEBG) for 10% of total PO value within 30 days of issue of PO and valid until 30 days after the date of E&amp;C certificate, which will be issued on completion of Erection and commissioning of equipment as prescribed in PO.</p> <p>If the supplier fails to submit the CEBG even within 60 days from date of PO, BHEL reserves the right to cancel the PO &amp; forfeit the EMD given by the supplier. In addition, action will be taken in line with extant guidelines for Suspension of Business dealings with supplier.</p>	<p><input type="checkbox"/> Accepted</p> <p><del><input type="checkbox"/> Not Accepted</del></p>	Non acceptance will lead to rejection of offer
6.2	Performance Bank Guarantee (PBG): (Applicable for Successful Bidder)	<p>The successful bidder shall furnish a Performance Bank Guarantee (PBG) for <b>10% of total PO</b> value immediately after completion of E&amp;C of equipment and before submission of E &amp; C Bill. The PBG shall be valid until 30 days beyond the warranty Period.</p> <p>If vendor fails to submit PBG on time, vendors agrees to accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable).</p>	<p><input type="checkbox"/> Accepted</p> <p><input type="checkbox"/> Not Accepted</p>	Non acceptance will lead to rejection of offer
6.3	Bank Charges	All bank charges required to be paid for participating in Tender / to comply with tender terms and conditions during execution of contract shall be borne by Vendor.	<p><input type="checkbox"/> Accepted</p> <p><input type="checkbox"/> Not Accepted</p>	Non acceptance will lead to rejection of offer

Contractor Signature

Contractor Seal

7 STATUTORY AND LEGAL COMPLIANCE				
7.1	<p>Compliance to <b>GFR 2017 Rule 144(xi) Restrictions on procurement from a bidder of a country</b> which shares a land border with India</p>	<p>Declaration for <b>GFR 2017 Rule 144(Xi)</b> as per attached format to be submitted by bidder.</p>	<p>Declaration for <b>GFR 2017 Rule 144(Xi)</b> as per Format</p> <p><input type="checkbox"/> Enclosed with offer</p> <p><input type="checkbox"/> Not enclosed with offer</p>	<p>Non submission of declaration in Bidders Company Letter Head as per Format will lead to rejection of offer.</p>
7.2	<p>Compliance to clause 9 (a) of Revised Public Procurement (<b>Preference to Make in India</b> Order, 2017) of DPIIT Dated 13.06.2020.</p>	<p>Declaration for (<b>Preference to Make in India</b> Order, 2017) of DPIIT Dated 13.06.2020 as per attached format to be submitted by bidder.</p>	<p>Declaration for <b>Make in India</b> as per Format</p> <p><input type="checkbox"/> Enclosed with offer</p> <p><input type="checkbox"/> Not enclosed with offer</p>	<p>Non submission of declaration in Bidders Company Letter Head as per Format will lead to rejection of offer.</p>

Contractor Signature

Contractor Seal

7.3	<p>Compliance to <b>MSME Act 2006, Public Procurement Policy-2012 and Related circulars</b> w.r.t relaxation in EMD, PQR and preference in procurement.</p>	<p>Bidder shall provide details w.r.t Status of firm as Micro / Small Enterprises / Start up recognized by Competent Authority. Valid Registration Certificate to be enclosed.</p> <p>In case valid documents are not provided, Bidder shall not be eligible for relaxation in EMD, PQR and no preference shall be considered in procurement.</p>	<p><b>Status of Bidder:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Micro Enterprise</li> <li><input type="checkbox"/> Small Enterprise</li> <li><input type="checkbox"/> Medium Enterprise</li> <li><input type="checkbox"/> Start Up Enterprise</li> <li><input type="checkbox"/> Others</li> </ul> <p>Copy of Registration as Micro / Small / Medium / Start up along with CA certificate for MSE status</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enclosed with offer</li> <li><input type="checkbox"/> Not enclosed with offer</li> <li><input type="checkbox"/> Not applicable</li> </ul>	<p><b>Submission of same after techno-commercial evaluation will not be accepted.</b></p>
7.4	<p><b>No Deviation w.r.t</b> General Terms and Conditions of Contract (<b>GCC</b>) and Special conditions of Contract (<b>STC</b>) as per NIT</p>	<p>Bidder shall provide declaration for unconditional acceptance to <b>General Terms and Conditions of Contract</b> Any deviation mentioned anywhere in the offer shall be ignored and shall not be considered for evaluation.</p>	<p>Declaration for No Deviation as per Format</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enclosed with offer</li> <li><input type="checkbox"/> Not enclosed with offer</li> </ul>	<p>Non submission of declaration in Bidders Company Letter Head as per Format will lead to rejection of offer.</p>

Contractor Signature

Contractor Seal

7.5	<b>Reverse Auction ( RA)</b>	<p>Not Applicable</p> <p><del>BHEL reserves the right to conduct Reverse Auction amongst Techno-Commercially Qualified Bidders as per RA guidelines through GEM.</del></p> <p><del>In case of non acceptance for Participation in Reverse auction ( RA), Price bid of Techno-commercially qualified bidders not accepting for RA and Offer value after RA shall be considered for arriving at L1.</del></p>	<p><del>_____ <input type="checkbox"/> Agreed for participation in RA ( Reverse Auction)</del></p> <p><del>_____ <input type="checkbox"/> Not Agreed for Participation in RA ( Reverse Auction)</del></p>	
<b>8 GOODS AND SERVICES TAX ( GST)</b>				
8.1	<b>GST REGISTRATION OF BIDDER</b>	<p>Bidder shall provide <b>GST No.</b> allotted to their organization.</p> <p>Copy of GST and PAN to be enclosed.</p>	<p>PAN:</p> <p>.....</p> <p>GST No:</p> <p>.....</p> <p>Copy of PAN and GST Registration</p> <p>Enclosed with offer</p> <p>Not enclosed with Offer.</p>	
8.2	<b>GST CODES FOR SUPPLY AND SERVICES</b>	<p><b>HSN code for Material ("Supply") and SAC code for Services ("E&amp;C") and applicable GST % against Supply and E&amp;C to be indicated.</b></p>	<p>HSN Code for " Equipment ":</p> <p><input type="checkbox"/> Enclosed / <input type="checkbox"/> Not Enclosed</p> <p>SAC Code for " Installation and commissioning ":</p> <p>.....</p>	

Contractor Signature

Contractor Seal

8.3	<b>SUBMISSION OF GST INVOICE</b>	<p>Bidder shall submit GST invoice complete in all respect as per GST council at least 45 days prior to the <b>cut-off date*</b> (Time limit as declared by GST Council) to enable BHEL to avail GST Credit.</p> <p><b>*The cut-off date as of now is September of the subsequent Financial year. The provision of Tax Collected at Source ( TCS) is applicable for this tender.</b></p> <p>In case BHEL is not able to avail GST Credit due to non-submission of complete set of invoice and other supporting billing documents as per PO within the above mentioned cut-off date , GST will not be paid to vendor.</p> <p>With effect from 01-October-2025, <b>it is mandatory for all Indigenous Suppliers/ Contractors to register their Supply, Works, and Service invoice, irrespective of the invoice amount exclusively through the SUVIDHA Portal (<a href="https://savidha.bhel.in/savidha/">https://savidha.bhel.in/savidha/</a>)</b> along with the required documents. For net invoice amount exceeding ₹5 lakhs (inclusive of taxes), uploading of a Class 3 digitally signed tax invoice is mandatory. For invoices up to 5 lakhs (inclusive of taxes), a scanned copy may be uploaded; however, submission of the hard copy is mandatory if a Class 3 digitally signed tax invoice is not uploaded.</p>	<p><input type="checkbox"/> Accepted</p> <p><input type="checkbox"/> Not Accepted</p>	
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Contractor Signature

Contractor Seal

**PART-I (TECHNO COMMERCIAL BID)**  
**GENERAL TERMS & CONDITIONS OF CONTRACT (GCC)**

**1. DEFINITION**

In these General Conditions of Contract, the following terms shall have meaning hereby assigned to them, except where the context otherwise requires:

- a) The "Contract" means, the documents forming the tender and acceptance thereof, together with all the documents referred to therein including general and special conditions to contract. All these documents as applicable taken together shall be deemed to form one contract and shall be complementary to one another.
- b) The "Work" means, the work described in the tender documents in individual Purchase orders as may be issued from time to time to the contractor by the Officer-In charge within the power conferred upon him including all notified or additional items of works and obligations to be carried out as required for the performance of contract.
- c) The "contractor" means, the individual Firm or Company whether incorporated or not, undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or Company or the successors of the firm or company and the permitted assigns of such individual or firm or Company.
- d) "The Officer-In charge" means, the Officer deputed by the BHEL to supervise the work or part of the work.
- e) "Approved" and "Directed" means, the approval or direction of the respective area **HOD** or person deputed by him for the particular purposes.
- f) "BHARAT HEAVY ELECTRICALS LIMITED" (hereinafter referred to as BHEL) shall mean the Board of Directors, Chairman, Executive Director, General Manager or, other Administrative Officer of the said Company including **AGM / CCD** authorised to invite tenders and enter into contract for works on behalf of the Company.
- g) The "Contract sum" means, the sum accepted or the sum calculated in accordance with the prices accepted in tender and / or the contract rates as payable to the contractor for the execution of the work during the currency of the contract.
- h) A "week" means, Seven Days, without regard to the number of hours worked or not worked in any day in that week.
- i) A "day" means, the day of 24 hours (TWENTY-FOUR) irrespective of the number of hours worked or not worked in that day.

**2. HEADING TO THE CONTRACT**

The heading to these conditions shall not affect the interpretations thereof.

**3. DEVIATIONS**

The contractor shall not carry out any work not covered by schedule except in pursuance of the written instructions of the respective area HOD. No such work shall be valid unless the same has been specifically confirmed and accepted by BHEL in writing and incorporated in the Contract.

**4. SUPPLY, ERECTION AND COMMISSIONING TO BE CARRIED OUT**

The Contract shall include all labour, materials, tools, plant, equipment and transport which may be required for Supply, Erection and Commissioning of Equipment.

The Contractor will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution of the work. No. extra charges consequent on any misunderstanding in these respects or otherwise will be allowed.

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**5. ASSIGNMENT OF TRANSFER OF CONTRACT**

The Contractor shall not, assign or transfer the contract or any part thereof, or any share, or interest thereon to any other persons.

**6. SUB CONTRACT**

The Contractor shall not sublet any portion of the contract.

**7. COMPLIANCE TO REGULATIONS AND BYE -LAWS**

The Contractor shall confirm to the provisions of any statute relating to the work and regulations and Bye- laws of any local authority. The Contractor shall be bound to give all notices required by statutory regulations or by-laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.

**8. EARNEST MONEY DEPOSIT (EMD) & SECURITY DEPOSIT (SD):**

**Earnest Money Deposit (EMD):**

Tender must be accompanied by Earnest Money for the amount mentioned in tender notice, pledged to BHEL- EDN, BANGALORE in any of the forms mentioned below.

**Modes of Deposit:**

The EMD shall be accepted only in the following forms:

- a) Cash deposit as permissible under the extant Income Tax Act (before tender opening)
- b) Electronic Fund Transfer credited in BHEL account (before tender opening)
- c) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer)
- d) FDR issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)
- e) In addition to the above, the EMD amount in excess of ₹2, 00, 000 /- (₹Two lakhs) also acceptable in the form of Bank guarantee from scheduled banks. The bank guarantee in such cases shall be valid for at least six months. (BG Format attached as Annexure-J)

**Forfeiture of EMD:**

EMD by the tenderer will be forfeited as per tender documents if

- i) After opening the Tender, the Tenderer revokes his tender within the validity period or increases his earlier quoted rates. ii) If only, a part of the Supply, Erection and Commissioning included in the tender has been awarded to the tenderer and the tenderer refuses to take up the work the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.

**General Terms related to EMD:**

Earnest Money Deposit (EMD) will not carry any interest.

The Earnest Money Deposit (EMD) will be refunded to the unsuccessful tenderers within 15 days of acceptance of the award of work by successful tenderer / expiry of offer validity period.

**PERFORMANCE SECURITY / SECURITY DEPOSIT (SD):**

Wherever Security Deposit (covering contract performance) is called for in the Tender /NIT, the Performance Bank Guarantee (PBG) or Security Deposit (SD), hereafter referred as performance security is to be submitted by the successful bidder awarded the contract. Performance security is to be submitted by the date specified in the contract.

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**Tender Ref No: NKRE000016**

Modes of deposit:

a) Performance security may be furnished in the following forms:

(i) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.

(ii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.

(iii) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).

(iv) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).

(v) Insurance Surety Bond.

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

b) In case of GTE tenders, the performance security should be in the same currency as the contract and must conform to Uniform Rules for Demand Guarantees (URDG 758) - an international convention regulating international securities.

a) Performance Security is to be furnished by a specified date (generally 14(fourteen) days after notification of the award) and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.

**Forfeiture of Performance Security:**

The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

PS shall be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the warranty under the contract.

The Performance Security shall not carry any interest.

Composite 'Contract Performance Bank Guarantee' of matching value/ validity, where both Security Deposit and Performance Bank Guarantee are required, shall not be construed as deviation.

Wherever the contract is for supply of Goods processed on labour basis/mixed basis from BHEL supplied materials, the materials shall be issued against a suitable Bank guarantee as specified in the particular Enquiry/STC/ATC/Annexures.

Wherever PBG (covering equipment / system / work performance guarantee) is called for in the Notice Inviting Tender (NIT) deviation shall not be accepted

Bank Guarantee wherever called for, shall be in the BHEL prescribed format. In case the order is to be placed in foreign currency, the BG must also be in Foreign currency, so specified by the Purchaser

Wherever Security Deposit (covering contract performance) is called for in the NIT, deviation shall not be accepted.

Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT / contract, from the bills along with due interest

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**9. GOODS & SERVICE TAX (GST) REGISTRATION & COMPLIANCE**

1. Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST.
2. Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) & Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, Place of Supply etc.
3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).
4. Invoices will be processed only upon completion of statutory requirement and further subject to following:
  - a) Vendor declaring such invoice in Form GST ANX-1
  - b) Receipt of Goods or Services and Tax invoice by BHEL
5. As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on dispatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2).
6. In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL.
7. In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor
8. In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor.
9. Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor.
10. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number.
11. GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor.

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**10. ORDERS UNDER THE CONTRACT**

All orders, notices etc. to be given under the contract shall be in writing, typescript or printed and if sent by registered post to the address given in the tender of the Contract, shall be deemed to have been served on the date, when in the ordinary course they would have been delivered to him. The Contractor shall carry out without delay all orders given to him.

**11. PRECAUTIONS AGAINST RISK**

The Contractor shall be responsible for providing at his own expense for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.

**12. DAMAGE / LOSS TO PROPERTY & INJURY TO WORKMEN**

The Contractor shall at his own expense reinstate and make good to the satisfaction of the respective area **HOD** and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of BHEL (or agents) servants or employee of BHEL, the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the contract and further the contractor shall indemnify BHEL against all claims enforceable against BHEL (or any agent, servant or employee of BHEL) or which would be so enforceable against BHEL, in respect of any such injury (including injury resulting in death) loss or damage to any person whomsoever or property including all claims which may arise under the Employees Compensation Act or otherwise.

**15 LAWS GOVERNING THE CONTRACT**

The contract shall be governed by the Indian Laws for the time being in force.

**16. CANCELLATION OF CONTRACT FOR CORRUPT ACTS**

BHEL, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued, shall accrue thereafter to BHEL cancel the contract in any of the following cases and the Contractor shall be liable to make payment to BHEL for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default.

If the Contractor shall:

a) Offer or give or agree to give to any person in BHEL service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for having borne to do any act, in relation to the obtaining or execution of this or any other contract for BHEL service,

OR

b) enter into a contract or understanding with any person in BHEL in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to BHEL,

OR

c) To obtain' a contract with BHEL as a result of ring tendering or by non-bonafide methods of competitive tendering, without first disclosing the fact in writing to BHEL.

**17. CANCELLATION OF CONTRACT FOR INSOLVANCY ASSIGNMENT OR SUBLETTING OF CONTRACT**

BHEL, without prejudice to any other right or remedy, which shall have accrued or shall accrue thereafter to BHEL, shall cancel the contract in any of the following cases:

If the Contractor,

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**Tender Ref No: NKRE000016**

a) Being an individual or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order for administration of his estate, made against him or shall take any proceedings for liquidation or composition under any bankruptcy Act or assignment of his effects of composition or arrangement for the benefit of his creditors or purport to do so, or if any application made under any Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be granted by him on behalf of his creditors.

OR

b) Being a Company, shall pass a resolution or Court shall make an order for the liquidation of its assets, or a receiver or Manager on behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or Manager.

OR

c) Assigns, Transfers, Sublets or attempts to assign, transfer or sublet any portion of the work.

d) Whenever BHEL exercises the authority to cancel the contract under these conditions, BHEL may have the work done by any means at the Contractor's risks and expenses provided always that in the event of the cost of the work so done (as certified by the respective area **HOD**) being less than the contract cost, the advantage shall accrue to BHEL and if the cost exceeds the money due to Contractor under the contract, the Contractor shall either pay the excess amount ordered by the respective area **HOD** or the same shall be recovered from the Contractor by other means.

e) In case BHEL carries out the work under the provisions of this condition, the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plants and / or labour provided by BHEL with an addition of such percentage to cover superintendence and establishment charges as may be decided by the respective area **HOD** whose decision shall be final and conclusive.

f) Labour engaged by the contractor should be disciplined & exhibit good behaviour in dealing with employees of BHEL. Any misbehaviour or undesirable conduct of any person engaged by the contractor is reported, contractor shall change that person immediately or else it may even lead to termination of the contract & in such case security deposit will be forfeited as penalty.

**18. CANCELLATION OF CONTRACT IN PART OR FULL ON CONTRACTOR'S DEFAULT**

If the contractor:

a) makes default in carrying out the work as directed and continues in that state after a reasonable notice from the respective area **HOD** or his authorized representative:

b) fails to comply with any of the terms & conditions of the contract or failure to comply orders after reasonable notice in writing with orders properly issued thereunder:

BHEL may without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to BHEL CANCEL the contract as whole or in part thereof or only such work order or items of work in default from the contract. Whenever BHEL exercises the authority to cancel the contract as a whole or part under this condition, BHEL may complete the work at the contractor's risk and cost (as certified by the respective area **HOD** which is final and conclusive) being less than the contract cost, the advantage shall accrue to BHEL. If the cost exceeds the money due to the Contractor under this contract, the Contractor shall either pay the excess amount ordered by the respective area **HOD** or the same shall be recovered from the Contractor by other means. In case BHEL carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or labour provided by BHEL with an addition of such percentage to cover the superintendence and establishment charges as may be decided by the respective area **HOD** whose decision shall be final and conclusive.

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**19. TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR**

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, BHEL shall have the option of terminating the contract without compensation to the Contractor.

**20. SPECIAL POWER TO TERMINATION**

If at any time after the award of contract, BHEL shall for any reason whatsoever not require whole or any part of the work to be carried out the respective area **HOD** shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.

**21. RECOVERY FROM CONTRACTOR**

Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractor, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with BHEL or from his Security Deposit unless the contractor pays the claim on demand.

**22. POST TECHNICAL AUDIT OF SUPPLY AND BILLS**

BHEL reserves the right to carry out the post-payment Audit and technical examination of the Supply, Erection and commissioning of Equipment and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof in the manner provided in the presiding sub- paragraphs. However, no such recovery shall be enforced after three years of passing the final bill.

**23. REFUND OF SECURITY DEPOSIT**

The Security Deposit may be refunded to the Contractor after completion of the contract provided, after the Contractor shall first have been paid the last and final bill and have rendered a "NO DEMAND CERTIFICATE".

**24. FORCE MAJEURE CLAUSE**

24.1 "Force Majeure" shall mean circumstance which is:

- a) beyond control of either of the parties to contract,
- b) either of the parties could not reasonably have provided against the event before entering into the contract,
- c) having arisen, either of the parties could not reasonably have avoided or overcome, and
- d) is not substantially attributable to either of the parties

And  
Prevents the performance of the contract,  
i. War, hostilities, invasion, act of foreign enemies.  
ii. Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war.  
iii. Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors.  
iv. Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors.  
v. Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity.

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**Tender Ref No: NKRE000016**

- vi. Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc.
- vii. Epidemic, pandemic etc.

24.2 The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, go-slow or similar labour difficulty b) late delivery of equipment or material (unless caused by Force Majeure event) and ( c) economic hardship.

24.3 If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event.

24.4 The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.

24.5 Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not

v) Constitute a default or breach of the Contract.

vi) Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the occurrence of an event of Force Majeure.

24.6 BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure.

**25. SETTLEMENT OF DISPUTES**

If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to Designated Engineer for amicable resolution by the parties. Designated Engineer (to be nominated by BHEL for settlement of disputes arising out of the contract) who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not.

If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018.

**26. CONCILIATION**

Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be

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**Tender Ref No: NKRE000016**

governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in - “Procedure for conduct of conciliation proceedings” (as available in www.bhel.com).

Note: Ministry of Finance has issued OM reference No. 1/2/24 dated 03.06.2024 regarding “Guidelines for Arbitration and Mediation in Contracts of Domestic Public Procurement. In the said OM it has been recommended that Government departments/ Entities/agencies are to encourage mediation under the Mediation Act. 2023. Entities/agencies are to encourage mediation under the Mediation Act. 2023. The said Act has not yet been notified by the Government. Therefore, the clause “Settlement of Disputes” shall be modified accordingly as and when the Mediation Act 2023 gets notified.

**27. ARBITRATION**

27.1 Except as provided elsewhere in this NIT, in case Parties are unable to reach an amicable settlement (whether by Conciliation to be conducted as provided in Clause-26 herein above or otherwise) in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract (hereinafter referred to as the ‘Dispute’), then, either Party may, refer the disputes to Arbitral Institution “**Arbitration & Conciliation Centre, Bengaluru (Domestic and International)**” and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the **Arbitration Centre - Karnataka (Domestic and International) Rules, 2012**.

27.2 A Party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of The Arbitration and Conciliation Act, 1996 (hereinafter referred to as the ‘Notice’) before referring the matter to arbitral institution.

The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL, executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.

27.3 After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to the **Arbitration & Conciliation Centre, Bengaluru (Domestic and International)** and that dispute shall be adjudicated in accordance with their respective Arbitration Rules **Arbitration Centre - Karnataka (Domestic and International) Rules, 2012**. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd. Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.

27.4 The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.

27.5 The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be in Bengaluru, Karnataka only.

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**Tender Ref No: NKRE000016**

27.6 Subject to the above, the provisions of The Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Bengaluru Karnataka only.

27.7 Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.

27.8 It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.

27.9 In case the disputed amount Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.

27.10 In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in to account while arriving at the total claim in dispute for the subject contract for the purpose of clause 27.9. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.

**27.11 In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:**

In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD (Administrative Mechanism for Resolution of CPSEs Disputes) as mentioned in DPE OM No.05/0003/2019-FTS-10937 dated 14-12-2022 as amended from time to time

**28. JURISDICTION:**

This contract shall be governed by the Law for the time being in force in the Republic of India. Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the Contract. In case of any suit or other legal proceedings arising under or relating to this Contract, the courts at Bengaluru, Karnataka only shall have the Jurisdiction.

**29. SECRACY OF CONFIDENTIAL INFORMATION:**

The Contractor undertakes and agrees that he/it will not disclose or reveal in part or full the proprietary /confidential information, which terms shall mean and include patents, trademarks, service marks, registered designs, copyright, design rights, know-how, confidential information, trade and business names and any other

Contractor Signature

Contractor Seal

**Tender Ref No: NKRE000016**

similar protected information of BHEL received during negotiation or currency of the contract to any third party or governmental authorities without written permission from BHEL. In the event of termination or expiry of the contract, the contractor shall return all proprietary/confidential information to BHEL. This clause shall survive termination or expiry of the contract.

BHEL reserves the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc., if the contractor is found guilty / wrong usage of the documents given by BHEL for any unauthorised activity.

The bidders shall enter into the Non-disclosure agreement separately. (Format attached).

**30. SIGNING OF CONTRACT**

Each contract document shall be signed by the Contractor with his usual signature. Contract by partnership or Hindu Joint Family firm, may be signed in the FIRM'S name by the Managing Partner or all /one of the Partners on behalf of the firm or the Karta or Manager for HUF as the case may be. Contract by a Company shall be signed with the name of the Company from a person authorised in this behalf and a Resolution or power of attorney or other satisfactory proof, showing that the person signing the Contract documents on behalf of the Company is duly authorised to do so, shall accompany the contract.

**29. FRAUD PREVENTION POLICY**

The Bidder along with its associate / collaborators / sub – vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about fraud or suspected fraud as soon as it comes to their notice”.

Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units / Regions intranet.

**30. CONFLICT OF INTEREST**

"A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be

considered to have a conflict of interest with one or more parties in this bidding process, if: a) they have controlling partner (s) in common; or

b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or c) they have the same legal representative/agent for purposes of this bid; or

d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to

information about or influence on the bid of another Bidder; or

e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the

disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ subassembly/

Assemblies from one bidding manufacturer in more than one bid; or

f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two

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Contractor Seal

## **Tender Ref No: NKRE000016**

manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer.

There can be only one bid from the following:

1. The principal manufacturer directly or through one Indian agent on his behalf; and

2. Indian/foreign agent on behalf of only one principal; or

g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the

contract that is the subject of the Bid; or

h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies.

Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "

### **31. SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS / CONTRACTORS:**

BHEL reserves the right to take action against Contractors who either fail to perform or Tenderers/Contractor who indulge in malpractices, by suspending business dealings with them in line with BHEL guidelines issued from time to time.

The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site [www.bhel.com](http://www.bhel.com).

If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or tampers the tendering process or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on [www.bhel.com](http://www.bhel.com) and / or under applicable legal provisions. Guidelines for suspension of business

### **32. BREACH OF CONTRACT, REMEDIES AND TERMINATION:**

The following shall amount to breach of contract:

**i.** Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time.

**ii.** The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period.

**iii.** The Supplier/Vendor delivers equipment/ material not of the contracted quality.

**iv.** The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.

**v.** Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.

**vi.** Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.

**vii.** Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.

Contractor Signature

Contractor Seal

**Tender Ref No: NKRE000016**

viii. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.

ix. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.

x. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.

Note- Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days.

In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.

**REMEDIES IN CASE OF BREACH OF CONTRACT**

Wherein the period as stipulated in the notice issued under clause -32 has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.

ii. Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc. available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued.

iii. wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:

iv. In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notices to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.

v. If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:

a. from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.

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Contractor Seal

**Tender Ref No: NKRE000016**

b. If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.

c. In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.

vi. It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.

vii. In addition to the above, imposition of liquidated damages, debarment, termination, descoping, short-closure, etc., shall be applied as per provisions of the contract.

**Note:**

1) The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include:

(a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.

(b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor.

**33. INTEGRITY COMMITMENTS**

Integrity Commitment: The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website [www.bhel.com](http://www.bhel.com). Integrity commitment, performance of the contract and punitive action thereof:

**COMMITMENT BY BHEL:**

BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all bidder(s) in a transparent and fair manner, and with equity.

**COMMITMENT BY BIDDER/ SUPPLIER/ CONTRACTOR**

The bidder / supplier / contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal code, 1860 or any other law in force in India.

- The bidder / supplier / contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by govt. of India / BHEL

- The bidder / supplier / contractor will perform / execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business / money / reputation to BHEL.

-If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in mal-practices, cheating, bribery, fraud or / and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an

Contractor Signature

Contractor Seal

## **Tender Ref No: NKRE000016**

offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then action may be taken against such bidder / supplier / contractor as per the extant guidelines of the company available on [www.bhel.com](http://www.bhel.com) and / or under applicable legal provisions.

-The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines

### **34. PREFERENCE TO MAKE IN INDIA**

“For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if it is issued after this NIT but before finalization of contract / PO / WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.

### **35. ELIGIBILITY OF A 'BIDDER FROM A COUNTRY WHICH SHARES A LAND BORDER WITH INDIA'**

(Order (Public Procurement No. 1) dated 23.07.2020, Order (Public Procurement No. 2) dated 23.07.2020 and Order (Public Procurement No. 3) dated 24.07.2020 issued by Department of Expenditure, Ministry of Finance, Govt, of India in this regard are available at website <https://doe.gov.in/procurement-policy-divisions>)

1) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. [Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), as mentioned under Annex I of the Order (Public Procurement No.1) dated 23.07.2020]

2) "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.

3) "Bidder from a country which-shares a land border with India" for the purpose of this Order means; -

- a. An entity incorporated, established or registered in such a country; or
- b. A subsidiary of an entity incorporated, established or registered in such a country; or
- c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d. An entity whose beneficial owner is situated in such a country; or
- e. An Indian (or other) agent of such an entity; or
- f. A natural person who is a citizen of such a country; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

4) The beneficial owner for the purpose of (3) above will be as under:

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**Tender Ref No: NKRE000016**

(i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person (s), has a controlling ownership interest or who exercises control through other means.

Explanation

a." Controlling ownership interest" means ownership of or entitlement to, more than twenty-five per cent, of shares or capital or profits of the company;

b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements;

(ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

(iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

(iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

(v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

5) An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

**36. OPTION CLAUSE:**

The Purchaser reserves the right to decrease the quantity to be ordered at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

**37. RIGHT OF REJECTION / NON -PLACEMENT OF PO**

BHEL reserves the right to accept the offers in part or in full, or cancel the Tender enquiry without assigning any reason.

Contractor Signature

Contractor Seal

**PART-I (TECHNO COMMERCIAL BID)**  
**SPECIAL TERMS & CONDITIONS OF CONTRACT (STC)**

**1. PARTICIPATION.**

The Parties who have been suspended or black listed or issued with "Show Cause Notice" by BHEL, EDN Bengaluru or any other BHEL Unit will not be allowed to participate in the Tender.

Other than the bidder, none of its group concerns or affiliates etc. shall participate in the tender either directly or indirectly through any other agency under same proprietor / common director(s) / common partner(s). The bidder should declare the same in the Tender. Even during the course of evaluation / finalization of Tender if it is found that some of the parties are not fulfilling the above clauses, BHEL will not consider them for further participation in the Tender.

**2. EVALUATION CRITERIA:**

a. Technical Bids of tenderers will be evaluated for the Pre-Qualification/Technical / Commercial Eligibility Criteria on the basis of supporting documents and track record of the bidder.

b. Price Bids of only those tenderers who are found to meet the Pre-Qualification/Technical Eligibility Criteria will be opened. Price Bids will be opened with prior information to the eligible bidders to facilitate the presence of the bidders or their authorized representatives to witness the Price Bid opening.

**3. CRITERIA FOR AWARD OF WORK:**

1. The evaluation of offer for award of work shall be on the basis of "Total Cost to BHEL/ **Net Cash outflow to BHEL after taking into account applicable Taxes and Duties.**

2. **The work will be awarded on Itemwise L1 basis.**

3. In case there are more than one L1 bidders, BHEL will invite fresh revised price bids from all such L1 bidders & ranking will be decided based on these revised bids. The new rates quoted should be lower than their previous L1 rates. In case if the revised bids submitted by L1 bidders is also same and none of the bidders are ready for further reduction in their rates, then L1 bidder will be selected based on draw of lots.

4. The quantity mentioned in BOQ / Price bid is tentative. BHEL reserves the right to increase or decrease the quantity during award of work or issue work order in phase manner as per requirement of BHEL.

**4. METHOD OF EVALUATION OF PRICES**

**Priority / Ranking**

1. Net cash outflow to BHEL including all charges, incidentals etc., inclusive of Goods & Service tax.

**5. RATE FINALIZATION**

1. Lowest prices received against BHEL Tender need not be the acceptable to BHEL and in that case BHEL would not consider the same for award of Contract. BHEL would negotiate or re-float the Tender opened if L1 price is not the lowest acceptable price to BHEL inter-alia other reasons.

2. Tenderers are requested to give their best prices at the first instant itself.

3. In the event of the final L1 prices are not reasonable / acceptable to BHEL, BHEL may resort to short closure of this Tender.

**~~6. FINALIZATION OF CONTRACT BY ADOPTING "REVERSE AUCTION":~~**

~~"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on GEM Portal) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do (es) not participate in online~~

Contractor Signature

Contractor Seal

**Tender Ref No: NKRE000016**

~~Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."~~

Contractor Signature

Contractor Seal

<b>BIDDER PROFILE</b>		
1.	Name of the Enterprise/ Company/ Firm.	
2.	Name of Directors / Partners / proprietor of Enterprise/ Company/ Firm	
3.	Registered Address of Enterprise/ Company/ Firm	
4.	Contact Details: Landline /Mobile number:	
5.	E-mail Address for communication w.r.t tender	E-mail ID: .....
6.	Name and Contact details of person for communication related to Tender	Name: ..... Mobile No: .....
7.	Type of Business Entity	<input type="checkbox"/> Sole proprietorship / <input type="checkbox"/> Partnership <input type="checkbox"/> Private Limited Company / <input type="checkbox"/> Public Limited Company <input type="checkbox"/> Public Sector / <input type="checkbox"/> Govt. Org / <input type="checkbox"/> Others (Pl. Specify .....) ( Supporting document to be enclosed )
8.	Status of Firm as MSME / Start up recognized by DPIIT	<input type="checkbox"/> Micro <input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Start-up recognized by DPIIT <input type="checkbox"/> None of the above ( Supporting document to be enclosed )
9.	BHEL Vendor Code (If any)	

Contractor Signature

Contractor Seal

**A.EMD PAYMENT VIDE SBI-E COLLECT**

This explains how to make Payments towards Earnest Money Deposit (EMD) to BHEL-EDN, Bengaluru through SBI-E collect. Payments can be made using Internet Banking, Debit Cards/Credit Cards etc. SBI Charges a minimum amount (Service Charge) for every transaction. This may vary according to the MODE selected.

**STEP BY STEP PROCEDURE TO REMIT EMD AGAINST TENDER NOTIFICATION:**

Login to <https://www.onlinesbi.com>

1. Select State Bank Collect available on the top (pre login page)
2. Accept the terms and conditions and click "PROCEED"
3. Select State of Corporation / Institution as "KARNATAKA "
4. Type of Corporate / Institution as "PSU-Public Sector undertaking "
4. Select PSU-Public Sector Undertaking Name as "BHARAT HEAVY ELECTRICALS LIMITED" and click "SUBMIT "
5. In the next page, Select Payment Category as "OTHERS" and Sub Category as "EMD" (As applicable), fill details correctly & click "SUBMIT".
6. If all details entered are correctly populated, click "CONFIRM "to proceed.
7. Make payment as per your convenience. (Options available are payment of fees through SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches).
8. SAVE & Keep the copy of receipt for future reference.

**PROCEDURE TO TAKE RECEIPT FOR A PAYMENT MADE, EVEN ON A LATER DATE:**

(PLEASE CHECK THE STATUS BEFORE MAKING PAYMENT SECOND TIME)

1. Login to [www.onlinesbi.com](http://www.onlinesbi.com)
2. Select State Bank Collect available on the top (pre login page)
3. Accept the terms and conditions and click "PROCEED"
4. Select "PAYMENT HISTORY "option available on the left side of screen.
5. Using two options as mentioned below, you can get the receipt:
  - a. Type the same Date of Birth, Mobile Number which you have entered at the time of making payment through SB collect. Select the date range and submit.
  - b. If you know the payment reference number, then enter the Reference number (DU...) along with anyone information (Date of Birth / Mobile number, which you have entered at the time of making payment). Select the date range and submit.
6. In the next page, take print out of receipt.

**A.1: EMD amount may also be remitted through NEFT/ RTGS to BHEL account as per following detail:**

Name of Bank: PUNJAB NATIONAL BANK  
Branch: BHEL MYSORE ROAD  
IFSC code: PUNB0424700  
Account Number: 4247002100500157

Contractor Signature

Contractor Seal

Certificate by Chartered Accountant on letter head for MSME bidder

This is to Certify that M/S

..... (hereinafter referred to as 'company' / Partnership Firm / Proprietorship) having its registered office at

..... is registered under Micro, Small and Medium Enterprises Development Act, 2006 (**MSMED Act, 2006**) having Udyam **Registration Number**

**No:** .....

Category: ....., (Micro/Small/Medium). (Copy enclosed).

Further Verified from the Books of Accounts, the **investment and turnover** of enterprise for the latest audited financial year ..... is as follows:

1. ~~Investment in plant and machinery or equipment (i.e. all tangible assets other than land and building, furniture and fittings) calculated as specified by the Ministry of Micro Small and Medium Enterprises vide its notification No. S.O.2119 (E) Dated: 26.06.2020 is ₹.....Lakh.~~
2. ~~Turnover of the enterprise calculated as specified by the Ministry of Micro Small and Medium Enterprises vide its notification No. S.O.2119 (E) Dated: 26.06.2020 is ₹.....Lakh.~~
3. ~~The above investment in plant and machinery or equipment is within the permissible limit of ₹..... Lakh and Turnover is within the permissible limit of ₹..... Lakh applicable for..... Micro / Small / Medium (Strike off which is not applicable) Category under MSMED Act 2006.~~

Date:

(Signature)

Name—

Membership Number—

Seal of Chartered Accountant.

Contractor Signature

Contractor Seal

NO DEVIATION CUM DECLARATION CERTIFICATE

On Bidder Letter Head

I/ We, M/s.....have

read and clearly understood all the Terms and conditions in Tender Schedule of "SUPPLY, INSTALLATION AND COMMISSIONING OF 01 NO. OF **AUTOMATIC WIRE STRIPPING AND CRIMPING MACHINE** AT BHARAT HEAVY ELECTRICALS LIMITED (BHEL) -EDN, BANGALORE **Tender Ref No: GEM/2026/B/7353535 Date: 13.03.2026** and accordingly we accept the same without any deviation what so ever.

- I/ We unconditionally agree to all the tender conditions and no new conditions are imposed by us in the techno-commercial / price bid. I understand in the event of imposing any condition in the technical / price bid, such condition would be ignored by BHEL and only the prices will be considered for the purpose of evaluation.
- I/ We confirm that none of our group concern or affiliates etc., appears on the list of banned firms / companies by BHEL (list available on [www.bhel.com](http://www.bhel.com)) nor any of the Director / Partner / proprietor of bidder / such group concern or affiliate etc. are involved with such company.
- I/ We also declare that, we have not been suspended or black listed or issued with Show Cause Notice by BHEL-Electronics Division, Bengaluru or any other BHEL Unit or any PSU/ Government organization.
- I/ We confirm that other than us, none of our group concerns or affiliates etc. are participating in the tender either directly or indirectly through any other agency under same proprietor / common director(s) / common partner(s).
- I/ We confirm that I/ We will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- I/ We confirm that if any of the above statement / information furnished by us in this tender is found to be false/ fake at any stage of tender evaluation or during execution of contract, BHEL will have the right to initiate appropriate action including legal proceeds / termination of contract, recovery of damages, penalties etc. as deemed fit.

(Contractor Signature with Seal)

Contractor Signature

Contractor Seal

On Bidder Letter Head

To,

M/s Bharat Heavy Electricals Ltd.  
Electronics Division, Mysore Road,  
Bangalore – 560026

**Sub: Certificate as per Annex-III (transitional cases) of Restrictions Under Rule 144 (xi) of the General Financial Rules (GFRs) 2017, Dated 23.07.2020.**

Ref:  
**“SUPPLY, INSTALLATION AND COMMISSIONING OF 01 NO. OF AUTOMATIC WIRE STRIPPING AND CRIMPING MACHINE AT BHARAT HEAVY ELECTRICALS LIMITED (BHEL) -EDN, BANGALORE”**  
**Tender Ref No: GEM/2026/B/7353535 Date: 13.03.2026**

I (authorized signatory for M/s ..... ) have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India ,

We, M/s.....

..... [Vendor Name & Address] hereby certify that we are not from such a country and is eligible to be considered.

For M/s .....

Authorized Signatory  
(with company seal & Name)

Contractor Signature

Contractor Seal

On Bidder Letter Head

To,  
M/s Bharat Heavy Electricals Ltd.  
Electronics Division, Mysore Road,  
Bangalore – 560026

Sub: Certificate as per clause 9 (a) of Revised Public Procurement (Preference to Make in India Order, 2017 of DPIIT dated 13.06.2020.

Ref:  
**“SUPPLY, INSTALLATION AND COMMISSIONING OF 01 NO. OF AUTOMATIC WIRE STRIPPING AND CRIMPING MACHINE AT BHARAT HEAVY ELECTRICALS LIMITED (BHEL) -EDN, BANGALORE”**  
**Tender Ref No: GEM/2026/B/7353535 Date: 13.03.2026**

I (authorized signatory for M/s ..... ) a ‘Class-I Local Supplier’ / ‘Class-II Local Supplier’ at the time of tender, bidding or solicitation hereby confirm that the item meets the Local Content requirement for ‘Class-I Local Supplier’ / ‘Class-II Local Supplier’ (Tick appropriate option & cut the other one) and the Local Content percentage is .....

The address is as below, where the local content / value addition is made:

[Factory Address]

For M/s .....

Authorized Signatory  
(with company seal & Name)

Contractor Signature

Contractor Seal

**CONTRACT EXECUTION BANK GUARANTEE BOND**

~~This deed of guarantee made this ..... day of ..... 20... by the..... Bank Ltd, (hereinafter referred to as "the Bank") in favour of Bharat Heavy Electricals Limited, Bangalore having its registered Office at New Delhi with its Unit Office at Bangalore whereas M/s..... having its registered office at ..... (hereafter called the "the Contractor") have entered in to contract with Bharat Heavy Electricals Limited, Bangalore for the supply of ..... vide Purchase Order No ..... dated .....~~

~~1. We ..... Bank Ltd, do hereby undertake to pay to Bharat Heavy Electricals Limited, Bangalore an amount not exceeding Rs..... against any loss or damage caused to or suffered or would be caused to or suffered by Bharat Heavy Electricals Limited, Bangalore by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order.~~

~~2. We, ..... Bank Ltd, do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from Bharat Heavy Electricals Limited, Bangalore stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by Bharat Heavy Electricals Limited, Bangalore by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order or by reason of the Contractor's failure to perform the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....~~

~~3. We, ..... Bank Ltd, further agree to the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of Bharat Heavy Electricals Limited, Bangalore under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till Bharat Heavy Electricals Limited, Bangalore certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the .....~~

~~4. We shall be discharged from all liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date the claim shall be enforceable and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith) notwithstanding the fact that the said enforcement is effected after the said. date.....~~

Contractor Signature

Contractor Seal

5. ~~For the purpose of this clause, any letter making demand on the Bank by Bharat Heavy Electricals Limited, Bangalore dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank ( any one of the BHEL Consortium Banks as per list attached as selected by the vendor) shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the Bank personally.~~
6. ~~We,.....Bank Ltd, further agree with Bharat Heavy Electricals Limited, Bangalore that Bharat Heavy Electricals Limited, Bangalore shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by Bharat Heavy Electricals Limited, Bangalore against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor or for any forbearance, act or omission on the part of Bharat Heavy Electricals Limited, Bangalore or any indulgence by Bharat Heavy Electricals Limited, Bangalore to the said Contractor or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.~~
7. ~~Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Bangalore.~~
8. ~~We, ..... Bank Ltd, lastly undertake not to revoke this guarantee during its currency except with the previous consent of Bharat Heavy Electricals Limited, Bangalore in writing.~~

~~In witness whereof we..... (indicate the name of Bank) have hereunto set out Bank Seal  
the..... day ..... month 201~~

~~The contact details of the Issuing Bank such as Email ID, Phone No. and Fax No. should be indicated in the CEBG. Also please note that the CEBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.~~

~~(1) — It should be typed in the Rs. 100 value of stamp paper.~~

~~(2) — It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.~~

~~(3) — It should be submitted with bank covering letter with sign and seal of the bank official.~~

**Please note that issuance of the CEBG without meeting the above requirement will render the document invalid.**

Contractor Signature

Contractor Seal

**ANNEXURE-H**

**BANK GUARANTEE FOR PERFORMANCE SECURITY**

**Bank Guarantee No:**

**Date:**

**To**

**Bharat Heavy Electricals Limited**

**Electronics Division, Bangalore**

Dear Sirs,

*In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House, Siri Fort, New Delhi - 110 049, India through its Unit BHEL-Electronics Division, Bangalore having awarded to NAME OF THE VENDOR/COMPANY with its registered office at ADDRESS OF THE VENDOR/COMPANY hereinafter referred to as the 'Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), Gem Bid Reference and GeM Contract Ref No dated xx.xx.202x valued at ₹.XX.00 (Rupees In Words Only) for Supply and installation of X No. NAME OF THE ITEM (hereinafter called the 'Contract') and the Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to 10% (Ten Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,*

*we, NAME OF THE BANK, having registered/Head office at PLACE and inter alia a branch at NAME OF THE BRANCH , being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums up to a maximum amount of ₹.XX.00 (Rupees In Words Only) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.*

Contractor Signature

Contractor Seal

*Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ₹.XX.00 (Rupees In Words Only).*

*We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.*

*The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Supplier shall have no claim against us for making such payment.*

*We the NAME OF THE BANK, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.*

*We NAME OF THE BANK, further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.*

*The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Supplier's liabilities.*

Contractor Signature

Contractor Seal

*This Guarantee shall remain in force up to and including XX.XX.202X and shall be extended from time to time for such period as may be desired by Employer.*

*This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.*

*Unless a demand or claim under this guarantee is made on us in writing on or before the 31.01.2026 we shall be discharged from all liabilities under this guarantee thereafter.*

*We, NAME OF THE BANK, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.*

*Notwithstanding anything to the contrary contained hereinabove:*

- a) The liability of the Bank under this Guarantee shall not exceed. XX.00 (Rupees in Words Only)*
- b) This Guarantee shall be valid up to XX.XX.202X*
- c) Unless the Bank is served a written claim or demand on or before XX.XX.202X all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.*

*We, NAME OF THE BANK, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.*

*For and on behalf of  
(Name of the Bank)*

*Dated.....*

*Place of Issue.....*

Contractor Signature

Contractor Seal

*Note:*

1. *Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.*
2. *The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.*
3. *In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Dept.*
4. *In Case of Bank Guarantees submitted by Foreign Vendors-*
  - a. *From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India) can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.*
  - b. *From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor Country's Bank)*
    - b.1 *In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by any of the Consortium Banks only will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.*
    - b.2 *In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at sl.no. b.1 will required to be followed.*
    - b.3 *The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.*

Contractor Signature

Contractor Seal

**ANNEXURE-I****ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER**

To THE PURCHASE/CONTRACT EXECUTING AGENCY/BHEL

1	NAME & ADDRESS OF THE SUPPLIER / SUBCONTRACTOR	
2	VENDOR CODE assigned by BHEL	
	<b><u>Details of Bank Account:</u></b>	
3	NAME & ADDRESS OF THE BANK	
4	NAME OF THE BRANCH	
5	BRANCH CODE	
6	MICR CODE	
7	ACCOUNT NUMBER	
8	TYPE OF ACCOUNT	CURRENT A/C / OD / CASH CREDIT
9	BENEFICIERY'S NAME	
10	IFSC CODE OF THE BRANCH	
11	EMAIL ID	
12	TELEPHONE/MOBILE NO.	

**CERTIFICATE** I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED by the National Electronic Funds Transfer and/or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account is a valid discharge of the liability of Bharat Heavy Electricals Limited. I / We also agree to bear the applicable Bank Charges for the above mode of transfer. **A copy of the cheque leaf/cancelled cheque leaf of the above account is sent herewith.**

AUTHORISED SIGNATORY WITH NAME SEAL

**Banker's Certification**

We confirm that we are enabled for receiving RTGS and NEFT credits and we further confirm that the account number of \_\_\_\_\_ (name of account holder), the signature of the authorized signatory and the MICR and IFSC codes of our Branch mentioned above are correct.

PLACE:

(Manager / Officer's)

DATE:

Signature Under Bank stamp and Name Seal with Membership No.

(Telephone / Mobile No. \_\_\_\_\_)

Forwarded to Accounts Dept. We confirm the above details are verified with the records available with us.

Signature of the BHEL Executive with Name Seal (Operating the Contract/Services)

Contractor Signature

Contractor Seal

**ANNEXURE-J****List of Consortium Banks**

<b>Sl. No.</b>	<b>Bank Name</b>	<b>Type of Bank</b>
1	Bank of Baroda	PSU Bank
2	Canara Bank	PSU Bank
3	Central Bank	PSU Bank
4	HDFC Bank Limited	PSU Bank
5	Indian Bank	PSU Bank
6	Indian Overseas Bank	PSU Bank
7	Punjab National Bank	PSU Bank
8	State Bank of India	PSU Bank
9	Union Bank of India	PSU Bank
10	Axis Bank	Private Bank
11	Federal Bank Limited	Private Bank
12	ICICI Bank Limited	Private Bank
13	IDBI Bank Limited	Private Bank
14	IndusInd Bank Limited	Private Bank
15	Kotak Mahindra Bank Limited	Private Bank
16	RBL Bank Ltd.	Private Bank
17	Yes Bank Limited	Private Bank
18	Citi Bank N.A.	Foreign Bank
19	Deutsche Bank	Foreign Bank
20	Exim Bank	Foreign Bank
21	Hong Kong and Shanghai Banking Corporation Ltd	Foreign Bank
22	Standard Chartered Bank	Foreign Bank

Contractor Signature

Contractor Seal

**From:** Dinesh Kumar Bhagat <dkbhagat@bhel.in>  
**Sent:** 10 March 2026 14:56  
**To:** JAWARKAR@bhel.in  
**Subject:** FW: Mandatory Instruction to Follow Bank Details for Specified Deposit and EPBG

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**From:** ednmailadmin [mailto:ednmailadmin@bhel.in]  
**Sent:** Monday, September 1, 2025 1:44 PM  
**To:** all-edn-email-users@bhel.in; all-esd-email-users@bhel.in  
**Subject:** Mandatory Instruction to Follow Bank Details for Specified Deposit and EPBG

Dear All,

This is to inform that all deposits/EPBG related must strictly be made only to the bank account details specified below.

Any deviation from the mentioned account will not be entertained.

**For Customer Collection**

Bank Name : Canara Bank  
Branch : Townhall Branch  
A/c No. : 0413201013263  
IFSC : CNRB0000413

**For Vendor Deposits (SD/EMD) or Employee Deposit, - Please use SBI collect.**

In case of NEFT/RTGS transaction, following bank a/c should be used.

Bank Name : State Bank of India  
Branch : Chandralayout Branch  
A/c No. : 31467498356  
IFSC : SBIN0004051

**For EPBG related,** Following bank details should be used.

Bank Name : State Bank of India  
Branch : Overseas Branch  
A/c No. : 39940422786  
IFSC : SBIN0006861

It is requested to ensure that every transaction is routed only through the respective accounts without exception.

This is essential for proper tracking and smooth processing.

Your support and adherence to these instructions are highly valued.

--  
Thanks and Regards,

Finance - Cash & Bank section  
BHEL, Electronic Division

सुरेन्द्र कुमार

महाप्रबंधक (सीएमटी एंड आईपी)

**Surendra Kumar**

General Manager (CMT & IP)

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

**Bharat Heavy Electricals Limited**



Ref.No.:AA/CMT&IP/Cap.Pur./01

Dated: 15<sup>th</sup> May 2012

Dear Shri .....(As per enclosed distribution list),

**Sub.: Key Terms and Conditions to be complied for Procurement of Capital Items**

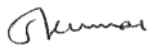
- 1.0 During discussions in various meetings to review the progress of Capacity Augmentation Schemes, serious concerns have been expressed over delays in implementation of Schemes which is caused by non adherence to delivery and E&C commitments, non-realisation in machine performance etc. by the vendors. It was, therefore, desired that appropriate criteria/ conditions must be built in the tender itself to take care of such issues.
- 2.0 In order to address these issues through sufficient safeguards in the contract, an Inter-Unit Committee was constituted for the purpose with members from HEEP/Haridwar, HPBP/Trichy, Bhopal, Hyderabad, EDN/Bangalore, PS-HQ, HPBP/Trichy (Finance), Corporate Law and CMT&IP. The committee held number of meetings and has submitted final recommendations. Subsequently, the recommendations have been vetted by Corporate Finance and their suggestions have also been incorporated.

These Terms & Conditions duly approved are enclosed (**Annexure-A**). These may be suitably incorporated in all future tender documents for capital purchases.

- 3.0 Notwithstanding the changes to be effected in Terms & Conditions of tender documents to comply to the Key Terms & Conditions as mentioned above, all provisions of Purchase Policy of company and guidelines of CVC issued from time to time shall be followed. However, consistent with these Key Terms & Conditions, relevant changes in your Departmental Procedures / Working Instructions may also please be incorporated, as necessary, so that these changes get institutionalized in the process.

With regards,

Encl.: As above

  
(Surendra Kumar)

To: All Heads of MM / P&D of Units/Regions: (As per enclosed distribution list)

CC: GM(Corp. Finance)/GM(Corp. MM)

Copy for kind information of:  
All Heads of Units/Regions : (As per enclosed distribution list)  
Director(E, R&D)  
GM(CMD Sectt.)

**Sub.: Key Terms and Conditions to be complied for Procurement of Capital Items**

- 1.0 The Key Terms & Conditions as detailed below are to be suitably incorporated in the tender documents for procurement of capital items.
- 2.0 Notwithstanding the changes to be effected in terms and conditions of tender documents to comply with these Key Terms & Conditions, all provisions of Purchase Policy of company and guidelines of CVC issued from time to time shall be followed. However, consistent with these Key Terms & Conditions, relevant changes in your Departmental Procedures / Working Instructions may also be incorporated.

**3.1 Earnest Money Deposit:**

- 3.1.1 It would be mandatory to seek Earnest Money Deposit (EMD) along with the Open Tender for Capital Items purchases as under:

Estimated Cost of Equipment	EMD Value
Up to Rs. 10 lakhs	Nil
Above Rs.10 lakhs and up to Rs. 20 lakhs	Rs. 40,000/-
Above Rs. 20 lakhs and up to Rs. 30 lakhs	Rs. 60,000/-
Above Rs. 30 lakhs and up to Rs. 50 lakhs	Rs. 1,00,000/-
Above Rs. 50 lakhs and up to Rs. 100 lakhs	Rs.1,50,000/-
Above Rs.100 lakhs	Rs. 2,00,000/-

EMD is to be collected in cash (as permissible under Income Tax Act) or Pay Order or Demand Draft only. In case of foreign bidders e-payment may also be accepted as EMD.

However, the EMD may be waived in following cases with prior approval of the Head of the Purchase department, not below the rank of AGM:

- a) Central / State - PSUs / Government departments
- b) Micro and Small Enterprises

The EMD may be waived in cases other than above for justified & recorded reasons, with approval of Unit Head.

- 3.1.2 EMD by the Tenderer will be forfeited as per Tender Documents if, the successful bidder/vendor refuses to honour the Order after award of the same on him and/or withdraws his bid and /or unilaterally changes the offer and/or any of its terms & conditions within the validity period.
- 3.1.3 EMD given by all unsuccessful Tenderers shall be refunded on acceptance of award / LOI/PO by successful Tenderer. The EMD of successful bidder shall be returned after submission of Contract Execution Bank Guarantee (CEBG).
- 3.1.4 EMD shall not carry any interest.

### 3.2 Bid Evaluation:

- 3.2.1 The bidder shall be asked to quote charges for 'Supply' and 'Erection & Commissioning' separately.
- 3.2.2 The evaluation of tender shall be on the basis of "total cost to BHEL" including Supply and Erection & Commissioning. For evaluation, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (part-I in case of two part bid) shall be considered. This shall be stated in the tender conditions.

#### 3.2.2 Details on Capacity / Supply and E&C performance of Bidder:

In case of tenders having high value items with estimated value more than **Rs. 2.5 Crore** of any item, the performance of the vendors and meeting commitments is of utmost importance. In order to keep this in focus during evaluation / finalization of tenders, Bidder shall be asked to furnish specific details of company performance in the enclosed **Annexure-I** (A. Capacity details; B. Performance of supplies to BHEL).

- (a) Capacity details in Part (A) are about the Manufacturing Capacity (Major Machine: category-wise & number-wise), No. of Machines supplied during last 5 years, Outstanding Order Book position, Liquidation Plan of all machines including BHEL machines under consideration for ordering. Wherever possible, efforts are to be made to contact some of the references of past supplies given.
- (b) The Performance details of supplies to BHEL will be sought in Part (B) for the POs placed by BHEL which can be verified; hence submission of these information by vendors is **mandatory**. BHEL will reserve the right to reject the offer, if past performance of the bidder is evaluated to be unsatisfactory and / or false information is given by the bidder.
- (i) Immediately after opening of Techno Commercial Bid, the indenting Unit shall get the past performance details with BHEL verified from concerned Units as a second check.
- (ii) The tender Technical Committee at Unit shall make use of the information on past performance of the bidders during technical evaluation of the offers. If Delivery Index of any bidder is  $\geq 0.20$ , then his offer shall be liable for rejection. However, offer of bidder with Delivery Index  $\geq 0.20$  can also be accepted for further evaluation on exception basis with justified recorded reasons with approval of Unit Head & provided the bidder fulfils the requirement of proven experience of supplying similar machines & have adequate available capacity to meet BHEL tender requirement.
- (iii) The actual / likely Supply and E&C period vis-à-vis scheduled Supply and E&C period (delay for reasons attributable to vendor only to be considered) shall be considered for all the machines against the POs placed by BHEL during last 5 years (limited to 5 latest executed POs) and all POs overdue for Supply and/or E&C.

For purpose of calculation of Delivery Index in case of overdue POs, the delay period for Supply and/or E&C will be reckoned from the date of bid opening of the tender under evaluation. In case of two part bid, part-I (i.e. Techno-Commercial Bid) shall be considered as date of bid opening.

Early Supply and/or E&C vis-à-vis scheduled dates will not be entitled for any consideration for calculation of Delivery Index.

Delay in E&C shall be applicable only in such cases where E&C period has been mentioned in the PO.

In case a PO includes more than one machine, then all the machines of the PO shall be considered for calculation of Delivery Index.

(iv) The details of bidder who has been disqualified based on the delivery performance with BHEL Units should be shared by Purchase Department of indenting Unit with all sister Units under intimation to CMT&IP. CMT&IP shall host the details on website of CMT&IP department.

(v) Illustration for calculation of Delivery Index:

$$\text{Delivery Index} = \sum_{i=1}^n \left\{ \frac{(\Delta X_i + \Delta Y_i)}{(X_i + Y_i)} \right\} / n$$

$i$  = No. of Machines; Where,  $i = 1, \dots, n$  ( $n$  = no. of m/cs.)

$X_i$  = Scheduled Delivery (no. of days)

$\Delta X_i$  = Supply delay (no. of days)

$Y_i$  = Scheduled E&C (no. of days)

$\Delta Y_i$  = E&C delay (no. of days)

### 3.3 Contract Execution Bank Guarantee (CEBG):

CEBG shall be required for all POs where value (Supply + E&C) of each P.O. is estimated to be more than **Rs. 20 lakhs**.

The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for **10%** of the Total PO value in the prescribed format within 30 days from the date of P.O. but before L/C opening. CEBG shall be from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by any Consortium Bank of BHEL. All bank charges on account of issuance and confirmation of CEBG whether incurred in India or outside India will have to be borne by the vendor.

CEBG shall be kept valid until 30 days after the date of E&C Certificate, which will be issued on completion of Erection & Commissioning of equipment which includes erection, commissioning, job proving, performance tests, training to operators etc. as prescribed in PO.

If the supplier fails to submit the CEBG even within 60 days from the date of PO, BHEL reserves the right to cancel PO & forfeit the EMD given by the supplier. In addition, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers.

### 3.4 Payment Terms:

#### 3.4.1 Payment Through L/C:

Where the payments are through L/C (L/C opening charges are to be loaded), payment of Supply value shall be 80% on dispatch and 20% on issue of E&C

Certificate. Payment of E&C value shall be made against E&C certificate issued by BHEL. E&C certificate shall be issued on satisfactory completion of erection, commissioning, job proving, performance tests, training to operators etc. as envisaged in PO. The L/C shall be opened by BHEL as per following:

- (i) Within 30 Days of receipt of acceptable CEBG, an irrevocable unconfirmed L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the Supply value of PO (30% of 80%).

Not earlier than 60 days before the shipment date, the value of this irrevocable unconfirmed L/C would be enhanced from 24 % to 80% of the Supply value of PO.

The above L/C can be negotiated after the Shipment against submission of B/L or AWB and such other documents as mentioned in the PO. The above L/C will be valid for a period extending 21 days beyond the shipment date for negotiation of documents.

- (ii) 15 days prior to the scheduled & confirmed arrival of the technicians of supplier with their names, an irrevocable unconfirmed L/C will be opened for a value equal to 20% of the Supply value of PO plus 100% of the E&C value of PO. The validity of L/C would be sufficient to cover the period required for the completion of E&C plus 21 days as negotiation period.

This L/C can be negotiated after: (a) Completion of E&C of the equipment in BHEL and against E&C certificate issued by BHEL and (b) Submission of Performance Bank Guarantee (PBG) by Supplier in the prescribed Format valid for 30 days beyond the warranty period, from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by Consortium Bank of BHEL for 10% of total PO Value. The PBG confirmation charges shall be borne by vendor.

Under all circumstances, CEBG shall be kept valid till the PBG becomes operational.

#### 3.4.2 Direct Payment:

In case of direct payment, 80% payment of Supply value shall be made within 45 days from the date of receipt of material at BHEL. Balance 20% of Supply value plus 100% of the E&C portion of PO value will be paid against E&C certificate issued by BHEL and submission of Performance Bank Guarantee (PBG) valid for 30 days beyond the warranty period by Supplier from any of the Consortium Banks of BHEL for 10% of total PO Value in the prescribed Format. The PBG confirmation charges shall be borne by vendor.

#### 3.4.3 Bank Guarantee and Loading against non acceptance of BHEL's Payment Terms:

If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment / opening of LC in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of E&C Certificate for the equipment. However, in no case, payment against dispatch shall exceed 90% of the PO Value.

Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, following loading shall be followed:

- (a) Benchmark Prime Lending Rate (BPLR) of SBI as applicable on the scheduled date of tender opening + 2%, for the amount & period of relaxation sought by bidder.
- (b) On account of payment through LC, if insisted by bidder, Bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC w.r.t. NIT norms, as per the prevailing bank rates.

### **3.5 Value for Erection & Commissioning at BHEL:**

3.5.1 Erection & Commissioning (E&C) value will include services to be rendered at BHEL like erection, commissioning, job proving, performance tests, training to operators etc.

The estimated percentage of E&C value shall be specified by the user department in Indent and shall be accordingly mentioned in the NIT.

E&C value should be quoted separately by bidders. Only in case where quoted value is less than the value (in %) specified in the NIT or separate E&C values are not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated in NIT & accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per clause 3.4 above.

**NOTE:** Broad guidelines for deciding % of E&C value are as follows for which final decision lies with the Indenter:

- E&C charges as 5% for general purpose machine tools (e.g. Lathes, Horizontal Boring, Vertical Boring, Drilling, Milling, Bending, Pressing, Shearing etc.)
- E&C charges can be higher than 5% in such cases where equipments require higher amount of assembly & erection work at Unit after supply of equipment such as Special Purpose Equipments, Process Plants, Furnaces, EOT Cranes, Shot Blasting equipments etc.
- E&C charges can also be reduced from 5% in such cases where equipments do not require erection after delivery but certain acceptance test & commissioning is required such as instruments (e.g. Oscilloscope, Partial Discharge Test equipment, Digital Multi-meters, Vibration Analyzer etc.), plug & use type equipments (e.g. Welding equipments), mobile material handling equipments (e.g. Hydra, Battery Trolley, Pallet Trolley, Stacker etc.) etc.

### **3.6 Time Period for 'SUPPLY' and 'E&C':**

3.6.1 Bidder should quote time period separately for 'Supply' and 'E&C' of equipment.

3.6.2 NIT shall contain the condition that "The bidders should quote their earliest schedule for Supply and E&C against the schedule indicated in the NIT". BHEL, however, reserves the right to accept an offer not meeting the NIT schedule.

Keeping in view, the type of equipment, extent of complexity and time required for E&C, mobilization period etc. the 'Erection & Commissioning period' shall be mentioned in the NIT and agreed period shall be mentioned in the PO.

3.6.3 Wherever delivery period beyond NIT period is to be accepted/ rejected, it requires approval of next higher authority (one level higher than the authority competent for floating of enquiry) limited to Unit Head for recorded reasons for the same.

### **3.7 Penalty for Delay in 'SUPPLY' and 'E&C':**

3.7.1 For the purpose of penalty for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site.

3.7.2 Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. Penalty will be considered separately for 'Supply' and 'E&C'.

The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C).

The rate of penalty for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).

Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply + E&C).

In case PO includes more than one machine, the penalty shall be @ 0.5% per week of delay on total PO value (Supply + E&C) for the delayed machine.

3.7.3 Loading on account of non-acceptance of Penalty for delayed Supply and/or E&C shall be as under:

In case any bidder is not accepting the above penalty for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.

3.7.4 In case, any shortage is noticed viz-a-viz PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on FOR destination basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier.

3.7.5 Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.

Encl: Annexure-I

### DETAILS OF COMPANY PERFORMANCE

#### A. Capacity Details:

Manufacturing Capacity (Major machines with Qty.)	Type of Major Machines	Qty.
Machines supplied during last 5 years (Year-wise with Qty.)	Scheduled Supply Period	Actual Supply Period
Outstanding Order Book position (Type of Machine with Qty. & name of customers*)		
Liquidation Plan of all machines including BHEL machines under consideration for ordering		

\* If any bidder is unable to give name of ALL the customer(s) due to confidentiality restrictions, they may give details without disclosing such customer's identity.

#### B. Performance of supplies to BHEL:

Details of POs to be considered in last 5 years shall include (i) Last 5 POs fully executed and (ii) all POs overdue for supply and/or E&C. Details of all machines in the POs to be given.

Sl. No.	Name of M/c with broad specs.	Name of BHEL Unit	P.O. No. & Date	P.O. Value	Supply Date		Erection & Commissioning		Reason of delay, if any
					As per P.O.	Actual/Likely	E&C period incl. job prove out as agreed (in days)	Actual / Likely period of E&C completion (in days)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1.									
2.									
3.									
4.									

Note: 1. In case bidder has not received any Purchase Order in the last 5 years from any of the Units of BHEL, then 'NIL' should be indicated.

2. Reasons for delay to be explained in details.

3. BHEL reserves the right to reject the offer, if past performance of the bidder is evaluated to be unsatisfactory and/or false information is given by the bidder.

**CORPORATE MANUFACTURING TECHNOLOGY & INVESTMENT PLANNING  
BHEL, NEW DELHI**

Ref.No. AA:CMT&IP:Cap.Pur.:01

Dated: 15<sup>th</sup> May 2012

Subject: Key Terms & Conditions to be complied for Procurement of Capital Items

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# e-Stamp

INDIAN – NON JUDICIAL  
**GOVERNMENT OF KARNATAKA**  
e-Stamp

Certificate No IN-KA01283180229277Y  
Certificate Issue Date 06-Mar-2026 08:18 PM  
Account Reference No NESL (CR)/ KASHCIL10/ BANGALORE/ KA-SV  
Unique Doc. Reference KA0127INESL2026065579857  
Purchased by HDFC BANK LTD  
Consideration Price (Rs) 44900.00  
First Party HDFC BANK LTD  
Second Party BHARAT HEAVY ELECTRICALS LIMITED  
Stamp Duty Paid By HDFC BANK LTD  
Stamp Duty Amount (Rs) 200.00  
Description of Doc. Article 56(ii) Bank Guarantee - If relating to e-bank guarantee



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06-March-2026

Bank Guarantee No. : 009GT02260650029

Date of Issue :

**BANK GUARANTEE FOR PERFORMANCE SECURITY**

Bank Guarantee No:009GT02260650029 Date: 06-MAR-2026

To

**BHARAT HEAVY ELECTRICALS LIMITED**

**ELECTRONICS DIVISION, BANGALORE560026**

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at BHEL House, Siri Fort, New Delhi - 110 049, India through its Unit BHEL-Electronics Division, Bangalore having awarded to SHYLENDRA ELECTRONICS with its registered office at 52, 9th Main 3rd Block, Bangalore, Jayanagar Karnataka 560011 hereinafter referred to as the 'Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), Gem Bid Reference: GEM/2025/B/6728037 and GeM Contract Ref No GEMC-511687761371788 dated 05.11.2025 valued at INR 4,49,000.00 (Rupees Four Lakhs Forty Nine Thousand Only) for Supply and installation of PD Calibrator of 01 No. Make Haefely (hereinafter called the 'Contract') and the Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to 10% (Ten Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we, HDFC Bank Ltd constituted under companies Act, 1956 having its Registered Office at HDFC BANK LTD, HDFC Bank House, C.S. No. 6/242, Senapati Bapat Marg, Lower Parel (W), Mumbai 400013 acting through its branch at HDFC Bank Limited, 1st Floor, Rashthrohana Bhavan, Municipal No.3/1, Ward No.77, Nrupathunga Road, Bangalore 560001 (hereinafter referred to as the Bank ) being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums up to a maximum amount of INR 44,900.00 (Rupees

Forty Four Thousand Nine Hundred Only) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding INR 44,900.00 (Rupees Forty Four Thousand Nine Hundred Only)

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Supplier shall have no claim against us for making such payment.

We the HDFC Bank Ltd further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said

Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged or till the expiry date whichever is earlier.

We HDFC Bank Ltd further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said

Supplier and to forbear or enforce any of the terms and conditions

relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Supplier 's liabilities.

This Guarantee shall remain in force up to and including 15-DEC-2027 and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the 15-DEC-2028

we shall be discharged from all liabilities under this guarantee thereafter.

We, HDFC Bank Ltd lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

a) The liability of the Bank under this Guarantee shall not exceed INR 44,900.00 (Rupees Forty Four Thousand Nine Hundred Only)

b) Our guarantee shall remain in force until 15-DEC-2027 ( Expiry Date) and we are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if you serve upon us a written claim or demand lodged at our bank counter on or before 15-DEC-2028 (Claim period of 12 months from the date of expiry) failing which the bank shall stand released and discharged from any liability whatsoever under this guarantee.

c) All claims under this guarantee will be payable at HDFC BANK LTD,1st Floor, Rashthrohana Bhavan, Municipal No.3/1, Ward No.77, Nrupathunga Road, Bangalore-560001.

d) This guarantee will be returned to us as soon as the purpose for which it is issued is fulfilled  
The BG Confirmation letter NO.GTEE/\_\_\_\_\_ is an integral part of the BG. No. 009GT02260650029 Dated 06-MAR-2026

The BG Confirmation Letter No. GTEE/ SHYLENDRA ELECTRONICS 06032026 002445 is an integral part of the BG No. 009GT02260650029 Date.

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Date 06-March-2026

BG Confirmation NO. GTEE SHYLENDRA ELECTRONICS 06032026 002445

To,

Bene Name and Address

BHARAT HEAVY ELECTRICALS LIMITED  
ELECTRONICS DIVISION  
MYSORE ROAD  
BANGALORE 560026

OUR BG NO. : 009GT02260650029

DATE OF ISSUE : 06-MAR-2026

APPLICANT : SHYLENDRA ELECTRONICS

GUARANTEE AMOUNT : INR44,900.00

AMOUNT IN WORDS : RUPEES FORTY FOUR THOUSAND NINE HUNDRED ONLY

EXPIRY DATE : 15-DEC-2027

EXPIRY PLACE : BANGALORE

CLAIM DATE : 15-DEC-2028

-----  
DEAR SIR,

PLEASE FIND ENCLOSED THE CAPTIONED GUARANTEE DULY ISSUED BY US.

THE ORIGINAL GUARANTEE ATTACHED IS TO BE RETURNED TO US ALONG WITH  
BENEFICIARY DISCHARGE LETTER WITHIN 15 DAYS FROM  
THE DATE IT CEASES TO BE IN FORCE OR AS SOON AS THE PURPOSE FOR WHICH IT  
HAS BEEN ISSUED IS FULFILLED ,WHICHEVER IS EARLIER.

IN CASE BANK GUARANTEE ISSUED IN FAVOUR OF CUSTOMS DEPARTMENT OR DGS AND D,  
ABOVE CLAUSE TO  
BE READ AS - THIS GUARANTEE WILL BE RETURNED TO US  
AS SOON AS THE PURPOSE FOR  
WHICH IT IS ISSUED IS FULFILLED.

WE CONFIRM THAT THE SIGNATORIES WHO HAVE SIGNED THE SUBJECT  
GUARANTEE / EXTENSION AS STATED BELOW HAVE THE REQUISITE POWERS TO SIGN  
ON BEHALF OF THE BANK.

1. Mr./Ms.	2. Mr./Ms.
Designation	Designation
PA / Auth Sig. No	PA / Auth Sig. No

FURTHER CONFIRMATION OF THIS GUARANTEE IF DESIRED, SHOULD BE SOUGHT  
BY SENDING EMAIL TO BGCONFIRMATION@HDFC.BANK.IN  
THIS LETTER FORMS AN INTEGRAL PART OF THE GUARANTEE.

FOR HDFC BANK LTD.

-----  
AUTHORISED SIGNATORY/S



**PURCHASE SPECIFICATION**

**TITLE :- Technical Specification for Function Generator**

**PUR.SPEC. NO : PS384\_FR25-2603**

**NO. OF PAGES : 01**

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**BHARAT HEAVY ELECTRICALS LIMITED**

**ELECTRONICS DIVISION**

**BANGALORE – 560026**



# PURCHASE SPECIFICATION

GROUP: SA - TESTING

## Technical Specification for Function Generator (25 MHz ,2 channel )

Sl. No.	Technical Parameters	Requirement	
1	i	<b>Output Function</b>	Standard and Arbitrary Waveforms.
	ii	<b>Standard Waveforms</b>	Sine, Square, Pulse, Ramp/Triangle.
	iii	<b>No of BNC outputs</b>	Two
2	<b>Waveform Characteristics</b>		
a	<b>Sine wave</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 25 MHz
	ii	Sine wave Flatness	0.15 dB up to 5 MHz 0.3 dB from 5 MHz to 25 MHz
	iii	Total Harmonic Distortion	$\leq 0.2\%$ 45 Hz up to 25 KHz
	iv	Harmonic Distortion (at 1 Vpp)	-65 dBc 45 Hz up to 25 KHz -60 dBc 25 KHz to 100 KHz -45 dBc 100 KHz to 1 MHz -35 dBc 1 MHz to 25MHz
	v	Spurious (Non Harmonic)	$\leq -60$ dBc (45 Hz to 1.0MHz) $\leq -40$ dBc (1.0MHz to 25MHz)
	vi	Phase noise (at 10 KHz offset)	$\leq -90$ dBc /Hz
b	<b>Square Wave</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 10 MHz
	ii	Rise /Fall time	$\leq 18$ ns
	iii	Overshoot	$< 5\%$
	iv	Jitter	100 ppm of period + 1 ns
c	<b>Pulse</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 5 MHz
	ii	Width	Min. 30ns
	iii	Resolution	10 ns.
	iv	Over Shoot	$< 5\%$
	v	Jitter	0.1 ppm of period + 500 ps
d	<b>Triangle/Ramp wave</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 200 KHz
	ii	Linearity	$\leq 0.1\%$ of peak output
	iii	Symmetry	0% to 100%

ವೆಂಕಟೇಶ್ ಟಿ., ಕೆಒಬಿ ಪುನಃನಿರ್ಮಾಣ ಮತ್ತು ಪರೀಕ್ಷಣೆ ವಿಭಾಗ  
 ವೆಂಕಟೇಶ್ ಟಿ., ಸಿ.ಐ.ಎಂ. ಪ್ರಾಜೆಕ್ಟ್ ಮ್ಯಾನೇಜರ್  
 VENKATESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



# PURCHASE SPECIFICATION

GROUP: SA - TESTING

## Technical Specification for Function Generator (25 MHz ,2 channel )

Arbitrary Waveform			
e	i	Frequency	From $\leq 1.0$ Hz to 5 MHz
	ii	Waveform Length	Up to 64 K points.
	iii	Sample Rate	50 MSa/s
	iv	Amplitude Resolution	14 bits (including sign)
	v	Non Volatile memory	4 waveforms.
3	<b>Output Characteristics</b>		
a	<b>Frequency</b>		
	i	Resolution	$< 1.0$ Hz for output freq $< 1$ Hz 1 Hz for output freq 1Hz to 20 MHz
	ii	Setting Accuracy	0.003% (30 PPM)
b	<b>Amplitude</b>		
	i	Output level	10 mVpp to 10 Vpp into 50 $\Omega$ load.
	ii	Resolution	1mV for output of 10 mVpp to 1 Vpp. 10 mV for output of 1Vpp to 10Vpp
	iii	Accuracy ( at 1KHz)	$\pm 1$ % of setting +1 mVpp.
c	<b>Offset DC</b>		
	i	Range (AC ampl. + DC)	$\pm 5$ V or more into 50 $\Omega$ load.
	ii	Accuracy	$\pm 3$ % or better of set value.
4	<b>Sweep</b>		
5	a	Wave form	Square
	b	Type	Linear
	c	Sweep Time	Up to 5 minutes
	d	Trigger	Manual
6	<b>Main output</b>		
	a	Impedance	50 Ohms (Typical)
	b	Output connection	BNC in front panel.
	c	Output protection	Protection against output short circuit.
7	<b>External Trigger</b>		
	a	Input Level	TTL compatible
	b	Slope	Rising or falling (+ / -)
	c	Pulse Width	$\geq 100$ ns
7	<b>Trigger Output</b>		TTL compatible

VENKATESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



# PURCHASE SPECIFICATION

GROUP: SA - TESTING

## Technical Specification for Function Generator (25 MHz ,2 channel )

8	<b>Modulation</b>	
a	Type	FM
b	Carrier Waveform	Square
c	Maximum Peak Freq. Deviation	=> 5 KHz
d	Source	Internal / External
9	<b>External Modulation Input</b>	
a	Modulating signal voltage range for full scale	-1 V to +1 V or -5 V to +5 V or 0 V to at least 4 V.
b	Modulating signal bandwidth	DC onwards.
10	<b>General</b>	
a	Display / Indication in front panel	Indication of waveform selected, amplitude, offset, frequency to be available. Value of parameters to be displayed when being varied.
b	Selection/setting/variation of parameters	Selection/setting/ continuous variation of parameters to be done with either manual rotary knob or pushbuttons mounted on front panel.
c	Input Power	230 V AC +/-5%; 50Hz +/-3 Hz.
d	Operating Temp/Humidity	Up to 40° C ambient. Up to 80% RH
e	Size	Bench top and portable
f	Accessories	Power Cord and Operating manual.
g	Certificate	Calibration certificate valid for one year to be submitted along with the equipment. Traceable to national standards
h	Acceptance Criteria	Demonstration of functionality of the instrument at Electronics division.
i	Guarantee	One year from date of delivery.

**Note:**

01. Offered Model shall comply to all technical/functional specification requirements.
02. Any functional specification requirements offered as an add on feature shall not be acceptable.
03. Offered Model datasheet downloadable link from website to be provided.

Prepared by  
 TESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026

Approved by  
 NIRMALA SIMON, ADDL. GENERAL MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



Report ID: GEM/GARPTS/22042026/O13CCEQN0QM4

Report Name: Function generator [2 ch/25MHz]

Generated By: Venkata Mahesh Maruputi , Department of Heavy Industry , Ministry of Heavy Industries and Public Enterprises

Generated On: 22/04/2026

Valid till: 22/05/2026

### GeM Availability Report and Past Transaction Summary

GeM Availability Report and past transaction summary report is generated based on the specifications searched by the Buyer. The specification may be modified appropriately for searching relevant categories on GeM. Buyer may navigate to GeM category page by clicking on the category link to view category specifications and products/services available in the category.

Order Count and Order Value displayed is on a cumulative basis since GeM inception.

#### 1. Search String: Function generator [2 ch/25MHz]

Search type: Product


1. There are categories available on GeM matching your requirements (as listed here). You can create a bid on GeM with a product closest matching your required specifications and add additional parameters in specifications through Corrigendum using RMS functionality.
2. If you feel that category TP needs updating you can submit category updating request also through RMS.
3. If you do not want to use any of the above option and want to proceed for procurement outside GeM, please suggest the specifications of the required product for creation of new category on GeM for future procurement.

Search Result: Category available/suggested on GeM but marked as "not matching requirements" by the buyer with undertaking as under:

*It is certified that I have thoroughly checked all probable categories suggested by GeM and I am satisfied that the product required is not covered / does not fall in any of the suggested categories and can not be procured under any of these categories even after inclusion of List of Values( LOV) wherever possible in category specifications of suggested categories. It is also certified that the technical specification requirement are such that these can not be covered even by adding specification parameters using ATC in any of the GeM suggested categories. This is a one-time requirement hence new category creation is not proposed / or requirement is recurring but request for new category creation will be submitted separately post generation of GeMARPTS.*

Estimated Value Of Procurement: ₹ 552240.0

Category Name	Order Count				Order Value (in Lakhs)			
	Catalog Count	Direct Purchase	Reverse Auction	Bid	Direct Purchase	Reverse Auction	Bid	
function generator	1,502	1,628	47	414	1,545	283	1,640	
XLPE Cable for Working Voltage up to and Including 1.1 KV Marked To IS 7098 (Part 1)	50,311	17,680	3,506	8,101	35,345	10,924	66,125	
2-Chlorobenzaldehyde	14	26	0	0	4	0	0	
Chest Press (Version 2)	280	654	20	60	677	14	70	

  
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 VENKATESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026

Category Name	Catalog Count	Order Count			Order Value (in Lakhs)		
		Direct Purchase	Reverse Auction	Bid	Direct Purchase	Reverse Auction	Bid
Insulated Unsheathed Cable with Rigid Conductor ISI Marked To IS	4,551	4,857	454	475	1,384	423	788
Smoke (CL 2) Detector (V1)	3	0	0	1	0	0	0
1 Power Generator (up to 900	27,177	3,291	895	2,704	18,153	23,694	54,328
Triphos 2% Emulsifiable Sulphonate (EC)	0	0	0	0	0	0	0
Insulated Copper Cable Single and Multi Core Circular Sheathed with Rigid Conductor (V2) Marked To IS 694	2,755	7,145	314	257	3,256	418	503
Sodium Chlorite (V2)	16	12	2	0	12	236	0

  
 ವೆಂಕಟೇಶ್ ಟಿ., ವರ್ಮಿನ್ ಪ್ರಾಜೆಕ್ಟ್‌ಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ  
 VENKATESH T., SR. MANAGER/SA-TESTING  
 BHIL-EDN, MYSURU ROAD, BENGALURU-560026





## Purchase Requisition

P.R. No. P.R. Date	2000058923 24.04.2026	Rev.No : Date :	1	Requisitioner
PLANT Sub-Assembly	Purchase Officer DINESH K BHAGAT		Value Category C	

SA-Testing Instruments under FR - 2026

Item No.	Material Number / Description	Total Quantity	Unit Rate	Value	Delivery Date
0001	KA9012610346 / Function generator [2 ch/25MHz] Doc Ref Doc Ver Function generator [2 ch/25MHz]	5 NO	As Per Estimate	As per Estimate	01/09/2026

Specification as per PS384 FR25-2603

ವಿನ್ಯಾಯಕರನು, ಕಛೇರಿ, ಬೆಂಗಳೂರು-560026  
ವೆಂಕಟೇಶ್ ಟಿ., ಸಿ.ಎಂ.ಎಸ್/ಸಿ.ಎಂ.ಎಸ್  
VENKATESH T., SR. MANAGER/SA-TESTING  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

Indentor 	Approved By 
VENKATESH T	NIRMALA SIMON NIRMALA SIMON, ADDL. GENERAL MANAGER/SA-TESTING BHEL-EDN, MYSURU ROAD, BENGALURU-560026



**PURCHASE SPECIFICATION**

**TITLE :- Technical Specification for Function Generator**

**PUR.SPEC. NO : PS384\_FR25-2603**

**NO. OF PAGES : 01**

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**BHARAT HEAVY ELECTRICALS LIMITED**

**ELECTRONICS DIVISION**

**BANGALORE – 560026**



# PURCHASE SPECIFICATION

GROUP: SA - TESTING

## Technical Specification for Function Generator (25 MHz ,2 channel )

Sl. No.	Technical Parameters	Requirement	
1	i	<b>Output Function</b>	Standard and Arbitrary Waveforms.
	ii	<b>Standard Waveforms</b>	Sine, Square, Pulse, Ramp/Triangle.
	iii	<b>No of BNC outputs</b>	Two
2	<b>Waveform Characteristics</b>		
a	<b>Sine wave</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 25 MHz
	ii	Sine wave Flatness	0.15 dB up to 5 MHz 0.3 dB from 5 MHz to 25 MHz
	iii	Total Harmonic Distortion	$\leq 0.2\%$ 45 Hz up to 25 KHz
	iv	Harmonic Distortion (at 1 Vpp)	-65 dBc 45 Hz up to 25 KHz -60 dBc 25 KHz to 100 KHz -45 dBc 100 KHz to 1 MHz -35 dBc 1 MHz to 25MHz
	v	Spurious (Non Harmonic)	$\leq -60$ dBc (45 Hz to 1.0MHz) $\leq -40$ dBc (1.0MHz to 25MHz)
	vi	Phase noise (at 10 KHz offset)	$\leq -90$ dBc /Hz
b	<b>Square Wave</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 10 MHz
	ii	Rise /Fall time	$\leq 18$ ns
	iii	Overshoot	$< 5\%$
	iv	Jitter	100 ppm of period + 1 ns
c	<b>Pulse</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 5 MHz
	ii	Width	Min. 30ns
	iii	Resolution	10 ns.
	iv	Over Shoot	$< 5\%$
	v	Jitter	0.1 ppm of period + 500 ps
d	<b>Triangle/Ramp wave</b>		
	i	Frequency Range	From $\leq 1.0$ Hz to 200 KHz
	ii	Linearity	$\leq 0.1\%$ of peak output
	iii	Symmetry	0% to 100%

ವೆಂಕಟೇಶ್ ಟಿ., ಕೆಒಬಿ ಪುಸ್ತಕಾಲಯ, ಬೆಂಗಳೂರು-560026  
 VENKATESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



# PURCHASE SPECIFICATION

GROUP: SA - TESTING

## Technical Specification for Function Generator (25 MHz ,2 channel )

Arbitrary Waveform			
e	i	Frequency	From $\leq 1.0$ Hz to 5 MHz
	ii	Waveform Length	Up to 64 K points.
	iii	Sample Rate	50 MSa/s
	iv	Amplitude Resolution	14 bits (including sign)
	v	Non Volatile memory	4 waveforms.
3	<b>Output Characteristics</b>		
a	<b>Frequency</b>		
	i	Resolution	$< 1.0$ Hz for output freq $< 1$ Hz 1 Hz for output freq 1Hz to 20 MHz
	ii	Setting Accuracy	0.003% (30 PPM)
b	<b>Amplitude</b>		
	i	Output level	10 mVpp to 10 Vpp into 50 $\Omega$ load.
	ii	Resolution	1mV for output of 10 mVpp to 1 Vpp. 10 mV for output of 1Vpp to 10Vpp
	iii	Accuracy ( at 1KHz)	$\pm 1$ % of setting +1 mVpp.
c	<b>Offset DC</b>		
	i	Range (AC ampl. + DC)	$\pm 5$ V or more into 50 $\Omega$ load.
	ii	Accuracy	$\pm 3$ % or better of set value.
4	<b>Sweep</b>		
	a	Wave form	Square
	b	Type	Linear
	c	Sweep Time	Up to 5 minutes
	d	Trigger	Manual
5	<b>Main output</b>		
	a	Impedance	50 Ohms (Typical)
	b	Output connection	BNC in front panel.
	c	Output protection	Protection against output short circuit.
6	<b>External Trigger</b>		
	a	Input Level	TTL compatible
	b	Slope	Rising or falling (+ / -)
	c	Pulse Width	$\geq 100$ ns
7	<b>Trigger Output</b>		TTL compatible

VENKATESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



# PURCHASE SPECIFICATION

GROUP: SA - TESTING

## Technical Specification for Function Generator (25 MHz ,2 channel )

8	<b>Modulation</b>	
a	Type	FM
b	Carrier Waveform	Square
c	Maximum Peak Freq. Deviation	=> 5 KHz
d	Source	Internal / External
9	<b>External Modulation Input</b>	
a	Modulating signal voltage range for full scale	-1 V to +1 V or -5 V to +5 V or 0 V to at least 4 V.
b	Modulating signal bandwidth	DC onwards.
10	<b>General</b>	
a	Display / Indication in front panel	Indication of waveform selected, amplitude, offset, frequency to be available. Value of parameters to be displayed when being varied.
b	Selection/setting/variation of parameters	Selection/setting/ continuous variation of parameters to be done with either manual rotary knob or pushbuttons mounted on front panel.
c	Input Power	230 V AC +/-5%; 50Hz +/-3 Hz.
d	Operating Temp/Humidity	Up to 40° C ambient. Up to 80% RH
e	Size	Bench top and portable
f	Accessories	Power Cord and Operating manual.
g	Certificate	Calibration certificate valid for one year to be submitted along with the equipment. Traceable to national standards
h	Acceptance Criteria	Demonstration of functionality of the instrument at Electronics division.
i	Guarantee	One year from date of delivery.

**Note:**

01. Offered Model shall comply to all technical/functional specification requirements.
02. Any functional specification requirements offered as an add on feature shall not be acceptable.
03. Offered Model datasheet downloadable link from website to be provided.

Prepared by  
 TESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026

Approved by  
 NIRMALA SIMON, ADDL. GENERAL MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026



Report ID: GEM/GARPTS/22042026/O13CCEQN0QM4

Report Name: Function generator [2 ch/25MHz]

Generated By: Venkata Mahesh Maruputi , Department of Heavy Industry , Ministry of Heavy Industries and Public Enterprises

Generated On: 22/04/2026

Valid till: 22/05/2026

### GeM Availability Report and Past Transaction Summary

GeM Availability Report and past transaction summary report is generated based on the specifications searched by the Buyer. The specification may be modified appropriately for searching relevant categories on GeM. Buyer may navigate to GeM category page by clicking on the category link to view category specifications and products/services available in the category.

Order Count and Order Value displayed is on a cumulative basis since GeM inception.

#### 1. Search String: Function generator [2 ch/25MHz]

Search type: Product


1. There are categories available on GeM matching your requirements (as listed here). You can create a bid on GeM with a product closest matching your required specifications and add additional parameters in specifications through Corrigendum using RMS functionality.
2. If you feel that category TP needs updating you can submit category updating request also through RMS.
3. If you do not want to use any of the above option and want to proceed for procurement outside GeM, please suggest the specifications of the required product for creation of new category on GeM for future procurement.

Search Result: Category available/suggested on GeM but marked as "not matching requirements" by the buyer with undertaking as under:

*It is certified that I have thoroughly checked all probable categories suggested by GeM and I am satisfied that the product required is not covered / does not fall in any of the suggested categories and can not be procured under any of these categories even after inclusion of List of Values( LOV) wherever possible in category specifications of suggested categories. It is also certified that the technical specification requirement are such that these can not be covered even by adding specification parameters using ATC in any of the GeM suggested categories. This is a one-time requirement hence new category creation is not proposed / or requirement is recurring but request for new category creation will be submitted separately post generation of GeMARPTS.*

Estimated Value Of Procurement: ₹ 552240.0

Category Name	Order Count				Order Value (in Lakhs)			
	Catalog Count	Direct Purchase	Reverse Auction	Bid	Direct Purchase	Reverse Auction	Bid	
function generator	1,502	1,628	47	414	1,545	283	1,640	
XLPE Cable for Working Voltage up to and Including 1.1 KV Marked To IS 7098 (Part 1)	50,311	17,680	3,506	8,101	35,345	10,924	66,125	
2-Chlorobenzaldehyde	14	26	0	0	4	0	0	
Chest Press (Version 2)	280	654	20	60	677	14	70	

  
 ವೆಂಕಟೇಶ್ ಟಿ., ಹಿರಿಯ ವ್ಯವಸ್ಥಾಪಕರು/ಉಪನಿರ್ದೇಶಕರು  
 VENKATESH T., SR. MANAGER/SA-TESTING  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026

Category Name	Catalog Count	Order Count			Order Value (in Lakhs)		
		Direct Purchase	Reverse Auction	Bid	Direct Purchase	Reverse Auction	Bid
Insulated Unsheathed Cable with Rigid Conductor ISI Marked To IS	4,551	4,857	454	475	1,384	423	788
Smoke (CL 2) Detector (V1)	3	0	0	1	0	0	0
1 Power Generator (up to 900	27,177	3,291	895	2,704	18,153	23,694	54,328
Triphosphos 2% Emulsifiable Sulphonate (EC)	0	0	0	0	0	0	0
Insulated Copper Cable Single 2 and Multi Core Circular Sheathed with Rigid Conductor (V2) Marked To IS 694	2,755	7,145	314	257	3,256	418	503
Sodium Chlorite (V2)	16	12	2	0	12	236	0

  
 ವೆಂಕಟೇಶ್ ಟಿ., ವರಿಷ್ಠ ಪ್ರबंधಕಾರನ ಪ. ಸಿ. ಡಿವಿ  
 VENKATESH T., SR. MANAGER/SA-TESTING  
 BHIL-EDN, MYSURU ROAD, BENGALURU-560026

Sl No	Pre-qualification criteria (Compliance to be provided mandatorily)	Compliance
1	Offer shall be submitted by the Original Equipment Manufacturer (OEM) or their authorized dealers in India. (Mention OEM / Dealer in Compliance)	
2	If the offer is from an authorized dealer, the dealer should furnish a valid authorization letter from the OEM along with the offer. The authorization letter should be current and contain the contact details of the OEM (Name, email ID, telephone numbers). Note : An authorized Dealer cannot quote for more than one OEM.	
3	The Bidder should have supplied in India, at least 5 numbers of Same Offered Model Instrument in last 5 years. Details of the customers where supplied with full contact details to be furnished along with offer.	
4	Foreign OEM's shall quote only through their authorized dealers/representative in India.	
5	Offer shall be for a new equipment and not for any refurbished / used equipment. All the parts used in the equipment shall be new and not used / refurbished ones.	
6	The OEM or their authorized representative shall provide prompt after sales and service support (including Logistics) at Bengaluru, Karnataka.	
6a	The OEM shall have Sales after Service Plan/Unit in India with NABL Accredited Facility to provide service support for equipment supplied. Bidder shall mention OEM Service centre address located in India with Website link for Validation.	
7	The Bidder shall provide installation of the Supplied Equipment and Training for one day on the operation of the Supplied equipment at BHEL. (If Order is Awarded)	
8	The Bidder shall furnish a comprehensive warranty for at least 12 months from the date of Installation and commissioning.	
9	The Bidder shall confirm Service support for minimum 10 years after Warranty for the offered Model.	
10	The Bidder shall provide valid Calibration Certificate valid for One Year from Date of Despatch from Factory.	

**NOTE:**

- Pre-qualification will be carried out based on the details furnished by the Bidder/ feedback from their customers/ inspection of the company/ product/Service facility if required by BHEL.
- The Pre-qualification criteria are mandatory requirements for consideration of technical evaluation.
- PQC Compliance to be filled and submitted along with the offer, failing which offer will not be considered for technical evaluation.

ವಿಷಯದ ಬಗ್ಗೆ ಮಾಹಿತಿಗಾಗಿ ದಯಮಾಡಿ ಸಂಪರ್ಕಿಸಿ



ವೆಂಕಟೇಶ್ ಟಿ. ಎಸ್. ಸಿಂಗ್  
ಸೀನಿಯರ್ ಮ್ಯಾನೇಜರ್

ವೆಂಕಟೇಶ್ ಟಿ., ಸಿ. ಎಸ್. ಸಿಂಗ್  
SR. MANAGER/SA-TESTING  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026





CIN Number: L65920MH1994PLC080618  
Web Address: Support@hdfcbank.com

{A:BGSF01O767COVHDFC0000240SBIN0006861221002009GT022606500292BGS2026031712032004042943XXXXXXXXXXXXXXXXXXXX  
XXXXX99}  
{4:  
:7020:009GT02260650029  
:7021:009GT02260650029  
:7055:009GT02260650029  
:7056:20260317  
:7057:1  
:7058:20260306  
:7059:SFMS ADDED  
:7031:HDFC0000009  
:7032:24/3 HDFC HOUSE,  
NO. 51 KASTURBA ROAD,  
KASTURBA ROAD  
:7033:SHYLENDRA ELECTRONICS  
52 9TH MAIN ROAD 3RD BLOCK  
JAYANAGAR  
BANGALORE 560011  
:7034:BHARAT HEAVY ELECTRICALS LIMITED  
ELECTRONICS DIVISION  
MYSORE ROAD  
BANGALORE 560026  
:7035:SBIN0006861  
:7036:STATE BANK OF INDIA  
=====

End of Advice

=====

vasav@bhel.in

---

**From:** C Venkat Rao <cvr@bhel.in>  
**Sent:** 25 May 2023 17:30  
**To:** R\_singh@bhel.in; pcjha@bhel.in; misador@bhel.in; shank@bhel.in; bani@bhel.in; vnigam@bhel.in; tsv@bhel.in; aniljoshi@bhel.in; sbnaithani@bhel.in; praveenkishore@bhel.in; pksaxena@bhel.in; navin@bhel.in; gmurali@bhel.in; arumoy@bhel.in; bassi@bhel.in; pgupta@bhel.in; rakesh.singh@bhel.in; sjreddy@bhel.in; smram1@bhel.in; apa@bhel.in; amdevan@bhel.in; rt1@bhel.in; sonwane@bhel.in; ts@bhel.in; sudheerbabu@bhel.in  
**Cc:** pkupadhyay@bhel.in; sinha@bhel.in; kumar.alok@bhel.in; kumar.surendra@bhel.in; ashokp@bhel.in; avnaga@bhel.in; virendradixit@bhel.in; pspandi@bhel.in; mgs@bhel.in; lakshminarayanan@bhel.in; aknived@bhel.in; gks@bhel.in; kumarrakesh@bhel.in; nasaifi@bhel.in; ukm@bhel.in; manishdayal@bhel.in; sethia@bhel.in; bsandipan@bhel.in; rmalhotra@bhel.in; ndd@bhel.in; ansingh@bhel.in; rupam@bhel.in; anand@bhel.in; sunilhaldia@bhel.in; sundru@BHEL.IN; amitkerketta@bhel.in; finss@bhel.in; satyan@bhel.in; ajain@bhel.in; sameer@bhel.in; sanju@bhel.in; rajeeva@bhel.in; ykrajesh@bhel.in; msridhar@bhel.in; anilpatur@bhel.in; padmaja@bhel.in; 'GA Saravanan(General Manager/MKTG&NGA/BAP)'; rks@bhel.in; ashwanisahu@bhel.in; satender@bhel.in; ankurtandon@bhel.in; ansingh@bhel.in; indra.pal.singh@bhel.in; shishir@bhel.in; srinivasbitra@bhel.in; seema.nanaiah@bhel.in; asim.mishra@bhel.in; anand@bhel.in; vasav@bhel.in  
**Subject:** Procurement through Government e-Marketplace (GeM)/ BHEL GePNIC - Order of Priority - Circular No. 02 of 2023-24  
**Attachments:** Procurement thru GeM BHEL GePNIC- Order of priority- Circular no. 02 of ....pdf

### **Circular No. 02 of 2023-24**

Sir/ Madam,

Further to the trailing mail wherein Circular no. 35 of 2022-23 dated 23.03.2023 (regarding procurement through GeM/ BHEL GePNIC) was communicated to all for compliance, we have been in receipt of feedback, based on which Circular No. 02 of 2023-24 regarding - Procurement through Government e-Marketplace (GeM)/ BHEL GePNIC - Order of Priority - has been issued and a copy of the same is enclosed herewith.

The Circular is also available on SS&P page of Corporate Intranet.

*Thanks and Regards,*

*C Venkat Rao,  
GM / S S & P,  
Corporate Office, BHEL,  
New Delhi*

---

**From:** C.Venkat Rao [<mailto:cvr@bhel.in>]

**Sent:** 23 March 2023 14:07

**To:** [pcjha@bhel.in](mailto:pcjha@bhel.in); [vnigam@bhel.in](mailto:vnigam@bhel.in); [tsv@bhel.in](mailto:tsv@bhel.in); [svsrini@bhel.in](mailto:svsrini@bhel.in); [smram1@bhel.in](mailto:smram1@bhel.in); [bani@bhel.in](mailto:bani@bhel.in); [pgupta@bhel.in](mailto:pgupta@bhel.in); [ybabu@bhel.in](mailto:ybabu@bhel.in); [sbnaithani@bhel.in](mailto:sbnaithani@bhel.in); [r\\_singh@bhel.in](mailto:r_singh@bhel.in); [minocha@bhel.in](mailto:minocha@bhel.in); [vivekkumar.raizada@bhel.in](mailto:vivekkumar.raizada@bhel.in);

[gmurali@bhel.in](mailto:gmurali@bhel.in); [arumoy@bhel.in](mailto:arumoy@bhel.in); [praveenkishore@bhel.in](mailto:praveenkishore@bhel.in); [navin@bhel.in](mailto:navin@bhel.in); [meenakesri@bhel.in](mailto:meenakesri@bhel.in); [rt1@bhel.in](mailto:rt1@bhel.in); [ts@bhel.in](mailto:ts@bhel.in); [sonwane@bhel.in](mailto:sonwane@bhel.in); 'M Arunmozhi Devan' <[amdevan@bhel.in](mailto:amdevan@bhel.in)>; [sudheerbabu@bhel.in](mailto:sudheerbabu@bhel.in); [sjreddy@bhel.in](mailto:sjreddy@bhel.in); [shank@bhel.in](mailto:shank@bhel.in); [misador@bhel.in](mailto:misador@bhel.in); [aniljoshi@bhel.in](mailto:aniljoshi@bhel.in); [kak@bhel.in](mailto:kak@bhel.in)

**Cc:** 'Amit Kerketta, General Manager & Head/CAPEX and SS&P/CAPEX & SS&P/CO' <[amitkerketta@bhel.in](mailto:amitkerketta@bhel.in)>; [satyan@bhel.in](mailto:satyan@bhel.in); [saurabh@bhel.in](mailto:saurabh@bhel.in); [sanju@bhel.in](mailto:sanju@bhel.in); [rajeeva@bhel.in](mailto:rajeeva@bhel.in); [ykrajesh@bhel.in](mailto:ykrajesh@bhel.in); [msridhar@bhel.in](mailto:msridhar@bhel.in); [sameer@bhel.in](mailto:sameer@bhel.in); [nkverma@bhel.in](mailto:nkverma@bhel.in); [ashwanisahu@bhel.in](mailto:ashwanisahu@bhel.in); [preetisagar@bhel.in](mailto:preetisagar@bhel.in); [rusiag@bhel.in](mailto:rusiag@bhel.in); [satender@bhel.in](mailto:satender@bhel.in); [vikasekka@bhel.in](mailto:vikasekka@bhel.in); [vasav@bhel.in](mailto:vasav@bhel.in); [ssaini@bhel.in](mailto:ssaini@bhel.in); [ankurtandon@bhel.in](mailto:ankurtandon@bhel.in); [ajain@bhel.in](mailto:ajain@bhel.in); [finss@bhel.in](mailto:finss@bhel.in)

**Subject:** Procurement through Government e-Marketplace (GeM) - Circular No. 35 of 2022-23

Sir / Madam,

Vide communication dated 01.03.2023, Ministry of Heavy Industries has directed **all CPSEs under MHI** to ensure **100% procurement through GeM Portal of goods and services which are available on GeM**. It has also been mentioned that a certificate has to be provided by CEO/ Heads of CPSEs to Secretary MHI that only those goods and services have been procured outside GeM, which are not available on GeM. On similar lines, Department of Public Enterprises has given communication on 20.03.2023 for compliance by all CPSEs.

In this regard, Circular No. 35 of 2022-23 is enclosed.

The Circular is also available on SS&P page of Corporate Intranet.

Based on above, Units/ Regions/ Divisions may issue/ modify/ update necessary department procedure/ work instructions/ system logics, etc.

This issues with the approval of the Competent Authority.

*Thanks and Regards,*

*C Venkat Rao,  
GM / S S & P,  
Corporate Office, BHEL,  
New Delhi*

**SOURCING STRATEGY & POLICY  
BHEL - NEW DELHI**

AA:SSP:GeM  
Dated: 25.05.2023

**(Circular No. 02 of 2023-24)**

**Sub: Procurement through GeM/ BHEL GePNIC- Order of priority**

**Ref: SS&P Circular no. 35 of 2022-23 dated 23.03.2023**

Further to Circular no. 35 of 2022-23 dated 23.03.2023 (regarding procurement through GeM/ BHEL GePNIC) which was communicated to all for compliance, feedback received has been examined, and the following to be complied **in the order of priority**:

Priority	Detail
1	GeMAR&PTS report (which indicates availability/ non-availability of items on GeM) to be reflected in every indent/ Purchase Requisition.
2	As already mentioned, Goods & Services to be mandatorily procured from GeM, <b>if available on GeM.</b>
(a)	Para 3(ii) (b; c & d) of circular no. 35 of 2022-23 dated 23.03.2023 be procured through BHEL GePNIC till such time the functionalities are enabled on GeM.
(b)	For Petty Purchases of emergent nature (value less than Rs. 25,000/-), the Competent Authority empowered for ordering (limited to Unit Head) may opt for any of the following options <ul style="list-style-type: none"><li>• GeM</li><li>• BHEL GePNIC or</li><li>• Outside GeM/ BHEL GePNIC</li></ul> In such cases of procurement outside GeM/ BHEL GePNIC , the relevant data should be captured in the database of the Unit/ Region/ Division.
3	If the Goods & Services are not available on GeM, following steps be initiated in the order specified:
(a)	GeM to be approached for category creation utilising available mechanisms (a) Request Management System (b) Module for crowd sourcing of categories and sellers.
(b)	the feature of custom bid available on GeM be utilized.
(c)	If the feature of custom bid available on GeM cannot be utilized for recorded reasons, tender may be floated through BHEL GePNIC where GeMAR&PTS shall be mandatory for floating a bid outside GeM.

  
25/5/23

Priority	Detail			
4	<p>Tenders floated on GeM/ BHEL GeP NIC are automatically linked to <a href="http://www.eprocure.gov.in">www.eprocure.gov.in</a>. In spite of the advantages of e-procurement like encrypted bids, online comparison statements, digital stamping of documents, system driven compliances, less human interface, audit trail, saving in PI to PO timelines etc., if there are still reasons for not <b>tendering</b> through BHEL GePNIC, the tenders are mandatorily required to be published on <a href="http://www.bhel.com">www.bhel.com</a> and Central Public Procurement Portal (CPPP) at <a href="http://www.eprocure.gov.in">www.eprocure.gov.in</a>.</p> <p>Payment in these cases shall be made only if the relevant data* is captured in the Unit Database</p> <p>The approving authority in such cases is as under:</p>			
	S.N	Purchases	Approving Authority	Remarks
	(a)	less than or equal to Rs. 50,000/-	One step higher than the ordering authority	Reasons to be recorded along with timelines for shifting to e-procurement
	(b)	more than Rs. 50,000/-	Unit Head	

\* Relevant data should include Indent no., GeMAR&PTS, item description, Enquiry No. & Date, P.O no., date & Value, Invoice No., Invoice Date, Invoice value, details of Vendors etc.

It shall be ensured that the procurement is not spilt for the purpose of avoiding the provisions of this communication.

Revised Annexure- D (Copy enclosed) is to be mandatorily submitted by all Units/ Regions/ Divisions every month.

Based on above, Units/ Regions/ Divisions may issue/ modify necessary work instructions/ departmental procedures etc.

This is for internal circulation only.

  
 (C. Venkat Rao) 25/5/23  
 GM/ SS&P

Distribution:

- All Heads of Units/ Regions/ Divisions

Copy to:

- All Heads of MM of Units/ Regions/ Divisions

- SS&P page on Corporate Office intranet

- GM & Head (Corp. Vigilance)

- SA to Director (IS&P)/(Power)/(E,R&D)/(HR)/ (Fin)

- GM/ CMD Sectt.

- <http://intranet.bhel.in>

- for kind info of CVO

- for kind info of Director

- for kind info of CMD

## Monthly Information report on procurement

- Ref. (i) MHI letter no. 16(32)/2022-Coord. dated 01.03.2023  
 (ii) DPE letter no. DPE/7(4)/2007-Fin.(Pt. 3) dated 20.03.2023  
 (iii) SS&P circular no. 35 of 2022-23 dated 23.03.2023  
 (iv) SS&P circular no. 02 of 2023-24 dated 25.05.2023

<b>Unit/ Region/ Division:</b>	
<b>Month:</b>	
<b>Year:</b>	

The summary of Goods & Services procured during the month is as below:

S.N	Description	Rs. Lakhs	% of total Procurement
1	Procurement through GeM		
2	Procurement outside GeM		
2(a)	Out of 2 above, procurement of Petty Purchases of emergent nature (value less than Rs. 25,000/-) <u>of Goods &amp; Services available on GeM, but procured outside GeM</u>		
	Total (1+2)		

I certify that during the month only those goods & services (except mentioned at 2(a) above) have been procured outside GeM which are not available on GeM.

(Signature of Unit/ Region/ Division Head)

Date: \_\_\_\_\_

To,  
Head (CAPEX & SS&P)

## सिद्धार्थ सैनी / Siddharth Saini

---

**From:** C.Venkat Rao <cvr@bhel.in>  
**Sent:** Thursday, March 23, 2023 2:07 PM  
**To:** pcjha@bhel.in; vnigam@bhel.in; tsv@bhel.in; svsrini@bhel.in; smram1@bhel.in; bani@bhel.in; pgupta@bhel.in; ymbabu@bhel.in; sbnaithani@bhel.in; r\_singh@bhel.in; minocha@bhel.in; vivekkumar.raizada@bhel.in; gmurali@bhel.in; arumoy@bhel.in; praveenkishore@bhel.in; navin@bhel.in; meenakesri@bhel.in; rt1@bhel.in; ts@bhel.in; sonwane@bhel.in; 'M Arunmozhi Devan'; sudheerbabu@bhel.in; sjreddy@bhel.in; shank@bhel.in; misador@bhel.in; aniljoshi@bhel.in; kak@bhel.in  
**Cc:** 'Amit Kerketta, General Manager & Head/CAPEX and SS&P/CAPEX & SS&P/CO'; satyan@bhel.in; saurabh@bhel.in; sanju@bhel.in; rajeeva@bhel.in; ykrajesh@bhel.in; msridhar@bhel.in; sameer@bhel.in; nkverma@bhel.in; ashwanisahu@bhel.in; preetisagar@bhel.in; rusiag@bhel.in; satender@bhel.in; vikasekka@bhel.in; vasav@bhel.in; ssaini@bhel.in; ankurtandon@bhel.in; ajain@bhel.in; finss@bhel.in  
**Subject:** Procurement through Government e-Marketplace (GeM) - Circular No. 35 of 2022-23  
**Attachments:** Circular 35 of 2022-23 GeM.pdf

Sir / Madam,

Vide communication dated 01.03.2023, Ministry of Heavy Industries has directed **all CPSEs under MHI** to ensure **100% procurement through GeM Portal of goods and services which are available on GeM**. It has also been mentioned that a certificate has to be provided by CEO/ Heads of CPSEs to Secretary MHI that only those goods and services have been procured outside GeM, which are not available on GeM. On similar lines, Department of Public Enterprises has given communication on 20.03.2023 for compliance by all CPSEs.

In this regard, Circular No. 35 of 2022-23 is enclosed.

The Circular is also available on SS&P page of Corporate Intranet.

Based on above, Units/ Regions/ Divisions may issue/ modify/ update necessary department procedure/ work instructions/ system logics, etc.

This issues with the approval of the Competent Authority.

*Thanks and Regards,*

*C Venkat Rao,  
GM / S S & P,  
Corporate Office, BHEL,  
New Delhi*

**SOURCING STRATEGY & POLICY  
BHEL – NEW DELHI**

**AA:SSP:GeM  
Dated: 23.03.2023**

**(Circular No. 35 of 2022-23)**

**Sub: Procurement through Government e-Marketplace (GeM)**

1. Rule 149 of General Financial Rules (GFR), 2017 mandates that procurement of Goods and Services will be mandatory for **Goods and Services** available on GeM.
2. Ministry of Heavy Industries (MHI) vide letter no. 16(32)/2022-Coord. dated 01.03.2023 (**Annexure-A**), while referring to a meeting held on 20.02.2023 of Committee of Secretaries chaired by Cabinet Secretary regarding review of procurement of goods and services through GeM, has directed all CPSEs under MHI to ensure 100% procurement through GeM Portal of goods and services which are available on GeM. Further Department of Public Enterprises (DPE) vide letter no. DPE/7(4)/2007-Fin.(Pt. 3) dated 20.03.2023 informed that CPSEs shall ensure 100% procurement of goods and services through GeM (**Annexure-B**).
3. In view of above, following is to be ensured:-
  - i. Procurement of Goods & Services which are available on GeM shall be **mandatorily** done through GeM only. Wherever, GeMAR&PTS indicates availability of the goods/ services on GeM, procurement shall necessarily be made through GeM.  
Accordingly, the **exceptions provided** to float tenders outside GeM for Goods & Services vide earlier circular(s) no. 27 of 2021-22 dated 02.02.2022; 16 of 2021-22 dated 30.09.2021; 52 of 2020-21 dated 31.03.2021 and 31 of 2020-21 dated 11.12.2020, are hereby withdrawn.
  - ii. The following procurements may be done outside GeM till such time the functionalities are enabled on GeM:
    - a) Transactions between BHEL sister Units
    - b) Imports
    - c) Sub-contracting with free issue material from BHEL
    - d) Works Contracts { *The treatment of Goods, Services & Works has been clarified by Department of Expenditure (DoE) vide O.M no. F.6/2/2023-PPD dated 13.01.2023 (Annexure-C).*}

  
23/03/23

- iii. Tenders floated outside GeM should be through BHEL GeP NIC portal where GeMAR&PTS shall be mandatory for floating a bid outside GeM for procurement of only such Goods & Services which are not available on GeM, and its unique ID would be required to be fed on the Publishing Portal along with the tender proposed to be published.
  - iv. Head of the Unit/ Region/ Division to submit a certificate on monthly basis by 5<sup>th</sup> of every month in the attached format **(Annexure-D)** that only those goods and services have been procured outside GeM, which are not available on GeM
4. As and when GeM introduces new functionalities/ addresses the limitations on the GeM portal from time to time, the same shall be adhered to without waiting for formal amendment/ issue of circulars/ guidelines etc.

Based on above, Units/ Regions/ Divisions may issue/ modify necessary work instructions/ departmental procedures etc.

This Circular is for internal circulation only.

This issues with the approval of Competent Authority

  
25/03/23  
**C. Venkat Rao**  
GM/ SS&P

**Distribution:**

- Heads of all Units/ Regions/ Divisions

**Copy to:**

- Heads of MM in all Units/ Regions/ Divisions
- SS&P page on Corporate Office intranet
- GM & Head (Corporate Vigilance)
- SA to Director (Fin)/(IS&P)/(Power)/(E, R&D)/(HR)
- GM/ CMD Sectt.
- <http://intranet.bhel.in>
- for kind info of CVO
- for kind info of Directors
- for kind info of CMD

**C.Venkat Rao**

**From:** C.Venkat Rao <cvr@bhel.in>  
**Sent:** 15 March 2023 13:02  
**To:** 'pcjha@bhel.in'; 'vnigam@bhel.in'; 'tsv@bhel.in'; 'svsrini@bhel.in'; 'smram1@bhel.in'; 'r\_singh@bhel.in'; 'bani@bhel.in'; 'ymbabu@bhel.in'; 'pgupta@bhel.in'; 'shank@bhel.in'; 'sudheerbabu@bhel.in'; 'minocha@bhel.in'; 'rt1@bhel.in'; 'sonwane@bhel.in'; 'ts@bhel.in'; 'sbnaithani@bhel.in'; 'meenakesri@bhel.in'; 'arumoy@bhel.in'; 'gmurali@bhel.in'; 'navin@bhel.in'; 'praveenkishore@bhel.in'; 'misador@bhel.in'; 'aniljoshi@bhel.in'; 'kak@bhel.in'; 'pksaxena@bhel.in'  
**Cc:** 'Amit Kerketta, General Manager & Head/CAPEX and SS&P/CAPEX & SS&P/CO'; 'Satyan Chadha(Addl GM/DER&DSECT/CO)'; 'ashwanisahu@bhel.in'; 'satender@bhel.in'; 'ankurtandon@bhel.in'  
**Subject:** Review of procurement of goods and services through Government e-Marketplace (GeM)-Reg.  
**Attachments:** gem potential 2023-24.pdf

Sir/ Madam,

The communication under reference no. 16(32)/2022-Coord dated 01.03.2023 of MHI is forwarded for kind information.

*Thanks and Regards,*

*C Venkat Rao,  
 GM / S S & P,  
 Corporate Office, BHEL,  
 New Delhi*

*This communication is for internal purpose only.*

---

**From:** satyan@bhel.in [mailto:satyan@bhel.in]  
**Sent:** 04 March 2023 10:12  
**To:** Shri CV Rao <cvr@bhel.in>  
**Cc:** Shri Amit Kerketta <amitkerketa@bhel.in>  
**Subject:** Fw: Review of procurement of goods and services through Government e-Marketplace (GeM)-Reg.

Dear sir,

Please examine  
 Submitted for kind perusal & suitable necessary action please.

सादर / With kind regards

सत्यन चड्ढा / Satyan Chadha,

AGM, SA to Dir. (E,R&D)

**From:** Saurabh Srivastava

**Sent:** Friday, March 3, 2023 4:38 PM

**To:** satyan@bhel.in

**Cc:** cvr@bhel.in ; 'M Sridhar(General Manager/CMD Secretariat/CMDSECT/CO)'

**Subject:** FW: Review of procurement of goods and services through Government e-Marketplace (GeM)-Reg.

Dear Sir,

For reference and necessary action at your end. :

सादर / *Regards*

सौरभ श्रीवास्तव / *Saurabh Srivastava*

अपर महाप्रबंधक / *AGM*

सी एम डी सचिवालय / *CMD Secretariat*

बीएचईएल हाउस, सिरी फोर्ट / *BHEL House, Siri Fort*

नई दिल्ली / *New Delhi - 110049*

*Ph. No. – +91-11-66337029; Mob – +91-9810569022*



Follow Us on



---

**From:** CMD BHEL <cmd@bhel.in>

**Sent:** 01 March 2023 16:58

**To:** saurabh@bhel.in

**Subject:** Fwd: Review of procurement of goods and services through Government e-Marketplace (GeM)-Reg.

---

Dr. Nalin Shinghal

Chairman and Managing Director

Bharat Heavy Electricals Ltd

BHEL House, Siri Fort, New Delhi

+91 - 11 - 2600 1001

---

**From:** "dhi\_coord" <dhi\_coord@nic.in>

**To:** yuledelhi@gmail.com, cmd@andrewyule.com, cmd@bhel.in, "BBJ CONSTRUCTION" <info@bbjconst.com>, "Bridge Roof" <delhi@bridgeroof.co.in>, "CMD BRIDGEROOF"

<cmd@bridgeroof.co.in>, cmd@ccilttd.in, "co secy" <co\_secy@ccilttd.in>, "CMD EPI"  
<cmd@engineeringprojects.com>, "pk saho" <pk.sahoo@engineeringprojects.com>, "Pankaj  
Gupta" <cmd@hmtindia.com>, "Corporate Planning" <cplg@hmtindia.com>, "cmd"  
<cmd@hecltd.com>, hecdelhi@hecltd.com, cmdhclkol@gmail.com, "cmd jaipur"  
<cmd.jaipur@indiainsalt.com>, pstocmd@indiainsalt.com, information@indiainsalt.com,  
cmd@ilkota.in, fa@ilkota.in, "Cmde Saurav Deb" <cmd@nepamills.nic.in>, "Shri AVHIJIT  
CHATTERJEE DELHI" <nepadelhi@nepamills.nic.in>, mdo@reil.co.in, poojas@rnc72.com,  
gmho@rnc72.com, sunilkumar@fcriindia.com, director@fcriindia.com, director@araiindia.com,  
info@araiindia.com, "Team Natrip" <team@natrip.in>, "Rajnish Maurya" <rajnish.maurya@natrip.in>,  
"Anoop Singh" <anoop.singh@natrip.in>, "Director, CMTI" <director.cmti@nic.in>, "Sr PS to Dir  
CMTI" <director.cmti@nic.in>, "Krishna Rathod" <cmti@nic.in>, "SUMIT SADHYA"  
<gmm@hmtmachinetools.com>, ykvaish@hmti.co.in

**Cc:** "Aditya Kumar Ghosh" <aditya.ghosh@gov.in>, "Dinesh Pal Singh" <dineshp.singh@nic.in>

**Sent:** Wednesday, March 1, 2023 11:06:11 AM

**Subject:** Review of procurement of goods and services through Government e-Marketplace (GeM)-  
Reg.

Sir / Madam,

Kindly find attached herewith a copy of this Ministry's letter no. 16(32)/2022-Coord. dated 1st  
March, 2023 on the above subject for information and necessary action.

सादर,

समन्वय अनुभाग,

भारी उद्योग मंत्रालय,

दूरभाष - 011-23061073



No. 16(32)/2022-Coord.  
Government of India  
Ministry of Heavy Industries

Udyog Bhawan, New Delhi  
Dated: 1<sup>st</sup> March, 2023

To

The CMDs/MDs/Heads of all operational CPSEs and ABs under MHI.

**Sub: Review of procurement of goods and services through Government e-Marketplace (GeM)-Reg.**

Sir/Madam,

I am directed to refer to the above subject and to say that on a recent meeting of Committee of Secretaries chaired by Cabinet Secretary on the above subject on 20<sup>th</sup> February 2023 following directions have been issued among other recommendations:

1. CPSEs/ABs shall furnish the procurement potential for FY 2023-24.
2. (a) CPSEs/ABs shall ensure 100% procurement of goods and services through GeM portal. CEO/Head of CPSEs/ABs concerned to submit their certificate to the Secretary that only those goods and services have been procured outside GeM which are not available on GeM.  
  
(b) Responsibility shall be fixed against the officials for violation of Rule 149 of GFR of public procurement through GeM.
3. It is, therefore, directed to follow the directions and send acknowledgement to the instructions issued.

Yours faithfully,

  
(Aditya Kumar Ghosh)

Deputy Secretary to the Government of India

**C.Venkat Rao**

---

**From:** C.Venkat Rao <cvr@bhel.in>  
**Sent:** 23 March 2023 11:07  
**To:** C Venkat Rao(General Manager/SS&P/CAPEX & SS&P/CO)  
**Subject:** [Cmd-cpses] Procurement of goods and services through Government e-Marketplace (GeM) - regarding  
**Attachments:** Procurement Gem 20.03.2023.pdf

---

**From:** "Mr Kailash Bhandari" <kailash.bhandari@nic.in>  
**To:** "cmd-cpses" <cmd-cpses@ismgr.nic.in>  
**Sent:** Monday, March 20, 2023 12:17:49 PM  
**Subject:** [Cmd-cpses] Procurement of goods and services through Government e-Marketplace (GeM) - regarding

PFA letter on the above mentioned subject.

Regards

Kailash Bhandari  
Deputy Director  
Department of Public Enterprises  
Tel : 011-24366247  
Mobile : 9891239889



---

Cmd-cpses mailing list -- [cmd-cpses@ismgr.nic.in](mailto:cmd-cpses@ismgr.nic.in)  
To unsubscribe send an email to [cmd-cpses-leave@ismgr.nic.in](mailto:cmd-cpses-leave@ismgr.nic.in)

F. No. DPE/7(4)/2007-Fin. (Pt.3)  
Government of India  
Ministry of Finance  
Department of Public Enterprises

Block No. 14, CGO Complex,  
Lodi Road, New Delhi-110003  
Dated the 20<sup>th</sup> March, 2023

To,  
Chief Executives of all CPSEs

Subject:- Procurement of goods and services through Government e-  
Marketplace (GeM) - regarding

Sir/Madam,

The undersigned is directed to state that the Committee of Secretaries (CoS) chaired by Cabinet Secretary in its meeting held on 20<sup>th</sup> February, 2023 reviewed the procurement of goods and services through Government e-marketplace (GeM). As recommended by the Committee of Secretaries, all CPSEs are requested to take following actions in this regard.

- (i) Accurately arrive at the procurement potential for FY 2023-24 and upload the same on dedicated dashboard created by GeM for capturing the details of procurement for Ministries and Organizations.
  - (ii) Ensure 100% procurement of goods and services through GeM portal
  - (iii) CEO/Head of the CPSEs to certify to the Secretaries of the Ministry/ Department concerned that only those goods and services have been procured outside GeM which are not available on GeM
2. It may be noted that the access to the GeM Dashboard will be provided to an assigned official, who would be responsible for providing the procurement details of concerned CPSE. GeM is scheduling meetings with Ministries/CPSEs shortly to provide a brief walkthrough of the Dashboard. It is therefore, requested that the nodal officer of your CPSE may be directed to take further necessary actions in this regard.
3. This issues with the approval of Secretary, Department of Public Enterprises.

  
(Dr. Nith Aggrawal)  
Joint Director  
Tel : 2436-0258

No.F.6/2/2023-PPD  
Government of India  
Ministry of Finance  
Department of Expenditure  
Procurement Policy Division  
\*\*\*

264-C, North Block, New Delhi.  
13.01.2023.

**OFFICE MEMORANDUM**

**Subject: - Regarding definition of Services and Works.**

This Department is in receipt of a reference from Government e-Marketplace (GeM) regarding confusion amongst buyers on definition of Works and Services. GeM is stated to be in receipt of many references regarding availing certain Services like repair, maintenance, overhauling, Annual/ Comprehensive Maintenance Contracts (AMC/ CMC) of pre-owned products through GeM.

2. In this regard, following is hereby clarified:

- a) The construction, fabrication, repair, maintenance, overhaul, renovation, decoration, installation, erection, excavation, dredging, and so on, of Civil assets should be handled as procurement of Works.
- b) Procurement of new product along with Installation, commissioning, training, AMC/CMC should be handled as procurement of Goods.
- c) Procurement of Repair, Maintenance, Overhauling, AMC/CMC or similar work for existing Electrical or Mechanical assets should normally be handled as procurement of Services.
- d) In case of composite contracts for Goods and Services. If the procurement value of Goods is substantial and rendering of Service is incidental then such procurement should be handled as procurement of Goods. Similarly, if the procurement value of Services is significant and supply of goods is incidental to the contract then such procurement can be handled as procurement of Services.
- e) In any case, rules for procurement of goods and services are almost same.

*4*  
*13/01/2023*  
(Kanwalpreet)  
Director (FPD)  
Tel.No.23093811  
Email: kanwal.irss@nic.in

To

Shri Prashant Kumar Singh,  
Chief Executive Officer,  
Government e-Marketplace (GeM),  
Department of Commerce,  
Ministry of Commerce & Industry,  
2<sup>nd</sup> Floor Jeevan Bharati Building,  
Janpath, New Delhi.  
e-mail: ceo-gem@gov.in

**Annexure-D**

**Monthly Information report on procurement through GeM**

Ref. (i) MHI letter no. 16(32)/2022-Coord. dated 01.03.2023  
(ii) DPE letter no. DPE/7(4)/2007-Fin.(Pt. 3) dated 20.03.2023

<b>Unit/ Region/ Division:</b>	
<b>Month:</b>	
<b>Year:</b>	

I hereby certify that during the month only those goods and services have been procured outside GeM, which are not available on GeM.

(Signature of Unit/ Region/ Division Head)

Date: \_\_\_\_\_

To,  
Head (CAPEX & SS&P)

**SOURCING STRATEGY & POLICY  
BHEL – NEW DELHI**

**AA:SSP:GeM  
Dated: 23.03.2023**

**(Circular No. 35 of 2022-23)**

**Sub: Procurement through Government e-Marketplace (GeM)**

1. Rule 149 of General Financial Rules (GFR), 2017 mandates that procurement of Goods and Services will be mandatory for **Goods and Services** available on GeM.
2. Ministry of Heavy Industries (MHI) vide letter no. 16(32)/2022-Coord. dated 01.03.2023 (**Annexure-A**), while referring to a meeting held on 20.02.2023 of Committee of Secretaries chaired by Cabinet Secretary regarding review of procurement of goods and services through GeM, has directed all CPSEs under MHI to ensure 100% procurement through GeM Portal of goods and services which are available on GeM. Further Department of Public Enterprises (DPE) vide letter no. DPE/7(4)/2007-Fin.(Pt. 3) dated 20.03.2023 informed that CPSEs shall ensure 100% procurement of goods and services through GeM (**Annexure-B**).
3. In view of above, following is to be ensured:-
  - i. Procurement of Goods & Services which are available on GeM shall be **mandatorily** done through GeM only. Wherever, GeMAR&PTS indicates availability of the goods/ services on GeM, procurement shall necessarily be made through GeM.  
Accordingly, the **exceptions provided** to float tenders outside GeM for Goods & Services vide earlier circular(s) no. 27 of 2021-22 dated 02.02.2022; 16 of 2021-22 dated 30.09.2021; 52 of 2020-21 dated 31.03.2021 and 31 of 2020-21 dated 11.12.2020, are hereby withdrawn.
  - ii. The following procurements may be done outside GeM till such time the functionalities are enabled on GeM:
    - a) Transactions between BHEL sister Units
    - b) Imports
    - c) Sub-contracting with free issue material from BHEL
    - d) Works Contracts { *The treatment of Goods, Services & Works has been clarified by Department of Expenditure (DoE) vide O.M no. F.6/2/2023-PPD dated 13.01.2023 (Annexure-C).*}

  
23/03/23

- iii. Tenders floated outside GeM should be through BHEL GeP NIC portal where GeMAR&PTS shall be mandatory for floating a bid outside GeM for procurement of only such Goods & Services which are not available on GeM, and its unique ID would be required to be fed on the Publishing Portal along with the tender proposed to be published.
  - iv. Head of the Unit/ Region/ Division to submit a certificate on monthly basis by 5<sup>th</sup> of every month in the attached format **(Annexure-D)** that only those goods and services have been procured outside GeM, which are not available on GeM
4. As and when GeM introduces new functionalities/ addresses the limitations on the GeM portal from time to time, the same shall be adhered to without waiting for formal amendment/ issue of circulars/ guidelines etc.

Based on above, Units/ Regions/ Divisions may issue/ modify necessary work instructions/ departmental procedures etc.

This Circular is for internal circulation only.

This issues with the approval of Competent Authority

  
23/03/23  
**C. Venkat Rao**  
GM/ SS&P

**Distribution:**

- Heads of all Units/ Regions/ Divisions

**Copy to:**

- Heads of MM in all Units/ Regions/ Divisions
- SS&P page on Corporate Office intranet
- GM & Head (Corporate Vigilance)
- SA to Director (Fin)/(IS&P)/(Power)/(E, R&D)/(HR)
- GM/ CMD Sectt.
- <http://intranet.bhel.in>
- for kind info of CVO
- for kind info of Directors
- for kind info of CMD

**Subject : Allocation of procurement activities for CAPEX items and related SoP**

BHEL-EDn has received approval for capital expenditure for improvement of facilities vide ref no. AA:CAPEX & SS&P:2026-27 EDN:A-655 dated 01.04.2026. There are 78 line items estimated to Rs 3822 Lakh.

Since the number and cost of items are high and presently, CPD is falling short of man-power to carry out this procurement which is supposed to be completed within this financial year. Completion requires immediate start of procurement activities, placing purchase orders and erection & commissioning completion at the earliest to make use of improved facilities for higher production and overall improvement in operation in all departments.

In view of the above, It is decided that procurement work shall be shared with executives working under other sub-group like traction-shop, C & I-shop, PR MM groups & GI Store.

So far following purchase executives are selected for the said work to carry out procurement activities of CAPEX items

- |                                   |                                |
|-----------------------------------|--------------------------------|
| (1). Shri Sourabh Singh Niranjana | (2). Shri Nand Kumar Oram      |
| (3). Shri Abhishek Singh          | (4). Shri Nandji Pandit        |
| (5). Shri Syambabu Achary         | (6). Shri K Bhaskar Reddy      |
| (7). Shri Ippili Niranjana        | (8). Shri Neelmani Kumar       |
| (9). Shri Rachit Gogia            | (10). Smt Jayanthi Palaniswamy |
| (11). Shri Vinit Raj Tripathi     |                                |

**Further below Standard Operating Procedure shall be followed.**

- (1). CPD shall be center-point for the receipt of purchase requisition after vetting from P & D.
- (2). CPD shall distribute purchase requisition and other relevant documents to the designated executive as per the material procurement chart.
- (3). Purchase officer shall carry out tendering in GeM or NIC portal as per the indent requirement. Consolidation of similar items to be carried out wherever possible. The same is indicated in the material allocation chart (attached as annexure-1)
- (4). Purchase officers shall seek clarification from Indenter if required. CPD shall support in follow-up.
- (5). Approvals required during the procurement shall be accorded by Sr. DGM (CPD) or concerned HoD as per the delegation of power.
- (6). Financial approval remains as per the practice in present.
- (7). GeM/NIC and SAP PO shall be placed by executives as per the Purchase Policy 2013, Capital purchase guidelines and other relevant circulars.
- (8). After the PO placement, further follow-up shall be carried out CPD and Indenter.
- (9). Performance Bank Guarantee work after the completion of warranty work shall be carried out by CPD with support of purchase executive.

  
4/5/26

- CC: (1). AGM (PR) – Smt P Prameela  
 (2). AGM (GI Store) – Shri Padmanabha  
 (3). AGM (MM – Traction, C & I) – Shri Vishal Singh  
 (4). SDGM (MM-CPD) – Shri Y K Jawarkar

ಶ್ರೀ. ಲಕ್ಷ್ಮೀನಾರಾಯಣ, ಸಹಕಾರಿ ಮುಖ್ಯಮಂತ್ರಿ/2026.00, ಹೆಚ್.ಬಿ.ಸಿ. & ವಿ.ಎಫ್.ಡಿ.  
 एस. लक्ष्मीनारायण, महाप्रबंधक/एम.एम., एच.बी.डी.सी. & वी.एफ.डी.  
 S. LAKSHMINARAYANA, GENERAL MANAGER / MM, HVDC & VFD  
 BHEL-EDN, MYSURU ROAD, BENGALURU-560026

## Nilmani Kumar

---

**From:** Venkatesh T <venkatt@bhel.in>  
**Sent:** 22 May 2026 17:07  
**To:** 'Y K Jawarkar'  
**Cc:** nilmanikumar@bhel.in; 'Nirmala Simon(Addl GM/SA/TESTING/EDN)'  
**Subject:** RE: PR for Function Generator under FR PR NO 2000058923  
**Attachments:** Function generator Gemrt report.pdf

Dear sir ,

Pl find our replies as mentioned below .

1)

Vendor	Email ID
M/s. Convergent Technologies India Pvt Ltd	<a href="mailto:mounesh@convergenttech.in">mounesh@convergenttech.in</a>
M/s. ARTS ( Applied RealTech Systems Pvt Ltd )	<a href="mailto:basavana.gowda@arts.net.in">basavana.gowda@arts.net.in</a>
M/s. Fluke	<a href="mailto:Kaushik.thirumalachar@fluke.com">Kaushik.thirumalachar@fluke.com</a>

- 2) As old GeM report was expired which was issued along with indent , hence new report is attached.
- 3) Acceptable as per MM specified.
- 4) As per our PQC clause no 7 & 8 ; vendor shall be complied.

For kind info and na pl.

Venkatesh T  
SA-T  
BHEL -EDN

---

**From:** Y K Jawarkar [mailto:jawarkar@bhel.in]  
**Sent:** Friday, May 22, 2026 1:45 PM  
**To:** 'Venkatesh T' <venkatt@bhel.in>  
**Cc:** nilmanikumar@bhel.in  
**Subject:** FW: PR for Function Generator under FR PR NO 2000058923

Dear Venkatesh

- (1). Please provide probable vendor with codes.
- (2). Please provide New GeM report since previous one is expired.
- (3). Please provide delivery duration. We typically take 70 days for supply.
- (4). Is there Installation and commissioning involved. ?

Regards  
Y K Jawarkar

---

**From:** Nilmani Kumar <[nilmanikumar@bhel.in](mailto:nilmanikumar@bhel.in)>  
**Sent:** Friday, May 22, 2026 1:23 PM  
**To:** 'Y K Jawarkar' <[jawarkar@bhel.in](mailto:jawarkar@bhel.in)>  
**Cc:** 'Deepthi K B(Manager/CE/SYS.TSTG/EDN)' <[deepthikb@bhel.in](mailto:deepthikb@bhel.in)>; 'Vishal Singh(Sr Dy GM/CCD/CCD\_CE-MM/EDN)' <[vishal.singh@bhel.in](mailto:vishal.singh@bhel.in)>; 'Lakshminarayana S' <[lakshminarayanan@bhel.in](mailto:lakshminarayanan@bhel.in)>; [ABHIJEETANANTEKKA@bhel.in](mailto:ABHIJEETANANTEKKA@bhel.in)  
**Subject:** RE: PR for Function Generator under FR PR NO 2000058923

Dear Sir,

No vendor is linked in PR. PR does not contain list of probable vendors. Same may be included to proceed further.

Pl. confirm whether supplier scope shall be supply only or “supply with E&C”.

Note that given GeM report is expiring on 22.05.2026. Fresh GeM report shall be required along with above clarification to proceed further.

Regards,  
Nilmani Kumar  
Manager/Material Management  
BHEL-Electronics Division, Bangalore  
Phone – 080-26989063

---

**From:** Y K Jawarkar [<mailto:jawarkar@bhel.in>]  
**Sent:** Tuesday, May 12, 2026 3:24 PM  
**To:** [nilmanikumar@bhel.in](mailto:nilmanikumar@bhel.in)  
**Subject:** FW: PR for Function Generator under FR

PR NO 2000058923 with all docs attached.

Due to large size sent separately.

---

**From:** Venkatesh T <[venkatt@bhel.in](mailto:venkatt@bhel.in)>  
**Sent:** Tuesday, May 12, 2026 3:13 PM  
**To:** 'Y K Jawarkar' <[jawarkar@bhel.in](mailto:jawarkar@bhel.in)>  
**Subject:** FW: PR for Function Generator under FR

Dear Sir ,

For kind info pl.

Venkatesh T  
SA-T  
BHEL -EDN

---

**From:** Venkatesh T [<mailto:venkatt@bhel.in>]  
**Sent:** Friday, April 24, 2026 4:37 PM  
**To:** 'Ankit Agarwal' <[ankitagarwal@bhel.in](mailto:ankitagarwal@bhel.in)>  
**Cc:** 'Nirmala Simon' <[nirmala.simon@bhel.in](mailto:nirmala.simon@bhel.in)>; 'jpmasand@bhel.in' <[jpmasand@bhel.in](mailto:jpmasand@bhel.in)>; 'JVVS Prasad(General Manager/P & D, SA, SC, FS & PS/HOD\_SA/EDN)' <[prasadjvs@bhel.in](mailto:prasadjvs@bhel.in)>  
**Subject:** PR for Function Generator under FR

Dear Ankit ,

Pl find attached tech specs and PR for Function Generator . Hard copies of the same already submitted to you .

For na pl.

Venkatesh T  
SA-T  
BHEL -EDN

## Nilmani Kumar

---

**From:** B Srikanth(Dy GM/CE/SYS.TSTG/EDN) <srikanthb@bhel.in>  
**Sent:** 22 May 2026 10:43  
**To:** Nilmani Kumar  
**Cc:** 'Y K Jawarkar'; deepthikb@bhel.in; 'Vishal Singh'; lakshminarayanan@bhel.in; 'Abhijeet Anant Ekka(Sr Dy GM/CE-MM/EDN)'  
**Subject:** Re: PR No 2000058786 Dual Channel 30 MHz Function Generator  
**Attachments:** GEM\_Report\_30MHzFNgenerator-revised.pdf

Dear kumar,

1. suggested vendors with vendor codes are updated in the Item text and header note text fields.For reference following are the suggested vendors.

M/s Shylendra electronics(vendor code: D56767)

M/s Integrated Services and Consultancy(vendor code: X564979)

2. Scope of supply will be supply and commissioning of the instruments at EDN.
3. Kindly find attached revised GEM availability report.

with regards,

Srikanth.B

DGM

CE-System testing

ph:9448826161

---

**From:** Nilmani <nilmanikumar@bhel.in>  
**To:** 'Y <jawarkar@bhel.in>; deepthikb <deepthikb@bhel.in>  
**Cc:** 'B <srikanthb@bhel.in>; 'Vishal <vishal.singh@bhel.in>; lakshminarayanan <lakshminarayanan@bhel.in>; 'Abhijeet <abhijeetanantekka@bhel.in>  
**Date:** Friday, 22 May 2026 10:05 AM IST  
**Subject:** RE: PR No 2000058786 Dual Channel 30 MHz Function Generator

Dear Sir,

No vendor is linked in PR. PR does not contain list of probable vendors. Same may be included to proceed further.

Pl. confirm whether supplier scope shall be supply only or “supply with E&C”.

Note that given GeM report is expiring on 22.05.2026. Fresh GeM report shall be required along with above clarification to proceed further.

Regards,

Nilmani Kumar

Manager/Material Management

BHEL-Electronics Division, Bangalore

Phone – 080-26989063

---

**From:** Y K Jawarkar [mailto:jawarkar@bhel.in]

**Sent:** Saturday, May 16, 2026 12:09 PM

**To:** nilmanikumar@bhel.in; deepthikb@bhel.in

**Cc:** 'B Srikanth(Dy GM/CE/SYS.TSTG/EDN)' <srikanthb@bhel.in>; 'Vishal Singh' <vishal.singh@bhel.in>; lakshminarayanan@bhel.in

**Subject:** PR No 2000058786 Dual Channel 30 MHz Function Generator

Dear Nilmani Kumar

PFA the PR No 2000058786 for Dual Channel 30 MHz Function Generator.

**To : Ms Deepthi K B**

Kindly change the purchase officer to “NKR” in SAP PR.

Y. K. Jawarkar

SDGM / Common Purchase Department

Electronics Division, Bharat Heavy Electrical Limited,

Mysore Road, Bengaluru - 560 026

Internal number : 080-26998751, Mobile No. : 94498 69613.

## कॉर्पोरेट कैपेक्स एवं एसएस एंड पी CORPORATE CAPEX AND SS&P

<b>To</b>	Shri, JVVS Prasad, GM (P&D, SA, SC, FS & PS), EDN, Bengaluru
<b>From</b>	Sanjay Kumar, GM (CAPEX and SS&P), Corporate office, New Delhi

**विषय:** Capital Investment Proposal for “**Upgradation & Modernization of manufacturing & testing facilities**” at EDN Bengaluru at an estimated cost of Rs. 39.37 crores.

- 1.0 Please refer to the subject proposal of EDN, Bengaluru submitted in e-office vide ref. no. EDN-PND0PND(CAP)/11/2025-EDN-P&D (Computer No: 255661) and subsequent clarifications till 07.03.2026.
- 2.0 As proposed, Competent Authority has accorded the approval to Capital Investment Proposal for “**Upgradation & Modernization of manufacturing & testing facilities**” at EDN Bengaluru at an estimated cost of **Rs. 39.37 Crores** at **EDN, Bengaluru.**

The brief details of approved proposal are as under:

Sl.	Description	In Rs. Crores	
		Total	FE content
1	Plant and Machinery	16.89	2.03
2	Civil Works	9.61	-
3	Elec Works & Services	11.72	-
4	Contingency	1.15	-
	<b>Total:</b>	<b>39.37</b>	<b>2.03</b>

Note: List of approved facilities is enclosed at **Annexure-I**. Detailed specification of proposed facilities shall be as per FR

- 3.0 As proposed, the scheme should be completed within 12 months, i.e. **latest by Mar'27**.
- 4.0 The observations of Corporate Finance while recommending the proposal are mentioned below for reference and compliance:
  - *Unit may ensure availability of sufficient vendor base at competitive price so as to realize the projected turnover and profit.*
  - *The proposal has been appraised for capital budget sanction only. With regard to placement of order and other associated purchase/works activities, compliance of provisions of purchase/works policy to be ensured.*
  - *Completion of work as per schedule at the competitive rates needs to be ensured to avoid time and cost overruns.*
- 5.0 Procurement of proposed items should be done strictly as per terms & conditions prescribed in the guidelines vide letter no. AA/CMT&IP/Cap. Pur./01 dated 15.05.2012 by incorporating the terms & conditions in the tender document, wherever applicable.


*Sanjay Kumar*  
01/05/26

- 6.0 As per Para 5.2 of Capital Budget Manual 2024, a multi-disciplinary Project Review Committee (PRC) under chairmanship of Head of Unit is to be formed to oversee the project implementation within sanctioned cost & time. The nominations of Unit representatives be sent within one week for constituting the PRC.
- 7.0 The progress on implementation may please be monitored regularly so as to ensure completion of project without time and cost overrun and monthly progress may please be submitted to Corporate CAPEX.

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संदर्भ संख्या : AA:CAPEX and SS&P:2026-27:EDN:A- 655

दिनांक: 01.04.2026

  
01/04/26  
(Sanjay Kumar)  
GM (CAPEX and SS&P)

Copy to :

- ED (CAPEX and SS&P -Addl Charge of CFP) / ED (EDN)
- ED (Corporate Finance)
- SA to Director (E, R&D) /Director (HR)/Director (IS&P)/ Director (Power)/ Director (Finance) –  
*for kind info. of Directors*
- AGM (CMD Secreteriat) – *for kind info. of CMD*

**List of facilities for Upgradation & Modernization of manufacturing & testing facilities" at EDN  
Bengaluru at an estimated cost of Rs. 39.37 crores**

Rs. Lakhs

Sl	Facility	Qty	New/ Replacement	Sanc Cost	F. E.
<b>A</b>	<b>Automatic Functional Testers for Electronics Modules</b>				
1	Digital Output Module Tester	2	New	53.83	-
2	IPSN Module Tester	2	New	63.64	-
3	ACN MRN- Processor Module Tester	2	New	60.48	-
4	IBCN Bus Controller Module Tester	2	New	58.48	-
5	All8H-Analog Input Module Tester	2	New	101.52	-
6	AIF4 Signal Monitoring Module Tester	1	New	45.93	-
7	Functional Testers for Mounting Base	3	New	105.20	-
8	VMS Tester	1	New	39.32	-
<b>B</b>	<b>Assembly Instruments for Electronics Modules</b>				
9	Robotic Soldering machine with brush & air blow cleaner	1	New	23.50	20.39
10	X Ray Inspection Machine [Tube voltage: Max. 130kV, 40W, Detector size / 150 x 120]	1	Replacement	172.16	142.48
11	X Ray Counter Machine [Tube kV Range : 55kV, Tube kV Range : 55kV]	1	New	48.42	40.07
<b>C</b>	<b>Testing Instruments for Electronics Modules</b>				
12	Digital Oscilloscope [4 ch,350 MHz]	4	Replacement-3 + New-1	61.02	-
13	Digital Oscilloscope [2 ch,350 MHz]	1	New		-
14	DC Power Supply [0-300V, 5A]	2	Replacement	10.74	-
15	DC Power Supply [0-30V, 10A]	7	New		-
16	Digital Multi meter [6.5 Digit]	14	Replacement	49.29	-
17	Digital Multi meter [8.5 Digit]	2	New		-
18	DC Programmable source [DC Voltage source upto (+/-) 32 V and current source (+/-) 200 mAmp, 5.5 Digit]	6	Replacement-2 + New-4	22.84	-
19	Function generator [2 ch/25MHz]	5	Replacement	4.68	-
20	Megger/ Insulation Tester	10	Replacement-3 + New-7	4.90	-
21	High Voltage Differential voltage probe [70MHz]	4	Replacement	16.58	-
<b>D</b>	<b>Testing and Quality related Instruments for Cubicles</b>				
22	SMPS (Switch Mode power Supply) [0-30 V DC/500 A]	2	New	8.76	-
23	Digital insulation tester [0-2500 V]	6	Replacement-2 + New-4	4.98	-
24	Precision millivolt /milliamp source [(+/-) 32 V and (+/-) 200 mAmp, 5.5 Digit]	12	Replacement-6 + New-6	46.59	-
25	Multimeter [6 digit]	20	New	37.01	-
26	Multimeter [3 and half digit]	20	New		-
27	Oscilloscope [4 channel, 200 MHz]	3	New	15.30	-
28	UPS [3 Phase, 50 KVA, 15 minutes backup]	1	New	5.50	-
29	Micro controller based 3 phase relay protection kit [Volatage output 300V, Current output 32A]	2	New	35.10	-

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Rs. Lakhs

SI	Facility	Qty	New/ Replacement	Sanc Cost	F. E.
30	Function Generator [Frequency range from 0.001 mHz to 30 MHz]	5	New	5.25	-
31	HV Tester 5 KV [Digital Display,5KV,100mA]	1	New	6.07	-
32	HV tester [0-10 KV]	4	New		-
33	Power Quyality Analyzer	2	New	17.70	-
34	Multifunction Calibrator [8.5-digit digital multimeters]	1	Replacement	199.98	-
<b>E</b>	<b>Fabrication and Assembly equipments for Cubicles</b>				
35	Double Column Bandsaw [Capacity: 421 mm Round and 421x 421 Square - complete With Electricals, with AC Drive]	1	Replacement	14.77	-
36	Resistance spot welding [3 phase DC, 750 mm throat depth, Working stroke: 20 mm]	1	Replacement	36.59	-
37	Automatic wire cut machine [Cable dia cut :0.3 mm - 8 mm]	1	New	20.07	-
38	Battery Operated HV Cable Cutter [Cutting capacity: Max. dia 45mm]	3	New		-
39	Automatic wire stripping, crimping m/c [Max Crimp Cross : 0.50 to 4 sq. mm]	3	Replacement-2 + New-1	34.80	-
40	Automatic wire stripping m/c upto 6 sq.mm [Cable size- upto 6 sqmm, stripping length- upto 40mm]	2	New		-
41	Automatic wire stripping m/c upto 120 sq.mm [Max cable dia-upto 120 sqmm]	1	New		-
42	Ferrule printer [Print up to 36mm laminated tapes width]	4	New	3.28	-
43	Operator stool small	20	New	17.84	-
44	Operator stool large	20	New		-
45	Operator chairs	50	New		-
46	Almirah or storage solution with lock	5	New		-
47	Operator Table	20	New		-
48	Working Trolley	30	New		-
<b>F</b>	<b>Material Handling and Storage equipments</b>				
49	Storage Rack for Electronics Modules [Load carrying capacity of each pallet-500 KGs, UDL Loading Levels Per Unit: G+2]	1	New	83.42	-
50	Storage Stacks with pallets [Load carrying capacity of each level - 1000,500 KG UDL/Pallet]	1	New		-
51	Storage Racks at Dispatch section [Capacity 1 ton /shelves UDL,8 modules]	1	New		-
52	Battery Operated Counter Balance Stacker [Capacity-1Ton, Fork length- 1000mm]	2	New	34.49	-
53	Electric stacker [Capacity-1.5 Tons, lifting height- 4.5 m]	1	New		-
54	Stacker [Capacity- 1Ton, Fork Length1200mm]	2	New		-
55	Fork Lift [Capacity- 3Tons]	3	Replacement-2 + New-1	62.43	-
56	Fork Lift [Capacity- 5Tons]	1	New		-
57	Hand Held Pallet truck [Capacity- 2 Ton, Fork length- 1100-1200 mm]	10	Replacement-8 + New-2		-

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Bengaluru at an estimated cost of Rs. 39.37 crores**

Rs. Lakhs

Sl	Facility	Qty	New/ Replacement	Sanc Cost	F. E.
58	Battery Operated Pallet Truck 3.5Ton 2.2M Fork length [Capacity- 3.5 Tons, Fork length- 2200 mm]	1	New	56.49	-
59	Battery operated pallet truck - 3Ton [Capacity-3 Ton, Fork length- 1750 mm]	10	Replacement		-
<b>G</b>	<b>Civil Works</b>				
60	Civil works for Buld 13 [Area around 110 m x 20 m, Steel Framed structure and Deck Slab]	1	Replacement	852.17	-
61	Civil works for FS workshop and stores at EDN [Area around 12 m x 25 m]	1	New	78.16	-
62	Civil works for FS workshop and stores at ESD [Area around 18 m x 11 m]	1	New	30.31	-
63	Sky-walk from NEB to canteen at ESD	1	New	0.59	-
<b>H</b>	<b>Lifts</b>				
64	Passenger lift for G + 2 floors at ESD [Capacity : 13 persons, 3 stops]	1	New	116.88	-
65	Cargo Lift for Buld 18 [ Capacity- Approx 1292 kg, 3 stops]	1	New		-
66	Cargo Lift for Buld 35 [ Capacity- Approx 884 kg, 3 stops]	1	New		-
67	Cargo Lift for Buld 7A [ Capacity- Approx 884 kg, 3 stops]	1	New		-
<b>I</b>	<b>Substation related equipments</b>				
68	Transformer [2500 KVA Dry Type]	1	Replacement	181.07	-
69	Transformer [1250 KVA Oil Type]	4	Replacement		-
70	DG Set [1010 KVA 415 V]	1	Replacement	124.78	-
71	RECD/ APCD for 1010 KVA DG set	1	New		-
<b>J</b>	<b>Other services (incl. Electrical works )</b>				
72	ESD Flooring at Building 14 [Area around 1350 sqm]	1	New	66.93	-
73	Elec works for Buld 13 [Associated electrical works for Area around 110 m x 20 m of Buld 13 including lighting, distribution, earthing, switches etc]	1	-	271.96	-
74	Electrical Works for augmentation of substation at BHEL EDN	1	New	213.92	-
75	Electrical Works for augmentation of substation at BHEL ESD	1	New	144.69	-
76	AC System for Building 13 [3-4 Tons, 25 nos]	1	-	32.84	-
77	Compressor and CAL for Buld 13 [Compressor capacity- 55-60 CFM]	1	-	18.59	-
				<b>3,822</b>	<b>203</b>
	Contingency @ 3%			115	-
	<b>Total</b>	-		<b>3,937</b>	<b>203</b>

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01/04/26