

TECHNICAL CATALOGUE

Material Code :	L741118141202001
Item Description :	SIGHT FLOW GLASSES, NB 15, FLANGED
Detailed Description :	SIGHT FLOW GLASSES, NB 15, FLANGED, WITH MATING FLANGES & FASTENERS, AS PER TECHNICAL SPECIFICATION PC:TSP:81006 AND AS PER ITEM NO: 01 OF DATA SHEET DRG. NO: DS:SFG:SAGARDIGHI REV 00

Material Code :	L741118141202002
Item Description :	SIGHT FLOW GLASSES, NB 25, FLANGED
Detailed Description :	SIGHT FLOW GLASSES, NB 25, FLANGED, WITH MATING FLANGES & FASTENERS, AS PER TECHNICAL SPECIFICATION PC:TSP:81006 AND AS PER ITEM NO: 02 OF DATA SHEET DRG. NO: DS:SFG:SAGARDIGHI REV 00

Material Code :	L741118141202003
Item Description :	SIGHT FLOW GLASSES, NB 40, FLANGED
Detailed Description :	SIGHT FLOW GLASSES, NB 40, FLANGED, WITH MATING FLANGES & FASTENERS, AS PER TECHNICAL SPECIFICATION PC:TSP:81006 AND AS PER ITEM NO: 03 OF DATA SHEET DRG. NO: DS:SFG:SAGARDIGHI REV 00

Material Code :	L741118141202004
Item Description :	SIGHT FLOW GLASSES, NB 50, FLANGED
Detailed Description :	SIGHT FLOW GLASSES, NB 50, FLANGED, WITH MATING FLANGES & FASTENERS, AS PER TECHNICAL SPECIFICATION PC:TSP:81006 AND AS PER ITEM NO: 04 OF DATA SHEET DRG. NO: DS:SFG:SAGARDIGHI REV 00

Material Code :	L741118141202005
Item Description :	SIGHT FLOW GLASSES, NB 65, FLANGED
Detailed Description :	SIGHT FLOW GLASSES, NB 65, FLANGED, WITH MATING FLANGES & FASTENERS, AS PER TECHNICAL SPECIFICATION PC:TSP:81006 AND AS PER ITEM NO: 05 OF DATA SHEET DRG. NO: DS:SFG:SAGARDIGHI REV 00

Material Code :	L741118141202006
Item Description :	SIGHT FLOW GLASSES, NB 80, FLANGED
Detailed Description :	SIGHT FLOW GLASSES, NB 80, FLANGED, WITH MATING FLANGES & FASTENERS, AS PER TECHNICAL SPECIFICATION PC:TSP:81006 AND AS PER ITEM NO: 06 OF DATA SHEET DRG. NO: DS:SFG:SAGARDIGHI REV 00

PROCUREMENT OF SIGHT FLOW GLASSES							
Annexure AA - Rev 01							
Item No	Project	Mat. code	Mat. Description	Delivery Period	Qty	UoM	Dispatch To
1	WBPDCS SAGARDIGHI	L741118141202001	SIGHT FLOW GLASSES NB 15 FLANGED	60 days *	5.000	Pieces	WBPDCS SAGARDIGHI TPP, SAGARDIGHI,MURSHIDABAD, WEST BENGAL
2		L741118141202002	SIGHT FLOW GLASSES, NB 25, FLANGED		11.000	Pieces	
3		L741118141202003	SIGHT FLOW GLASSES, NB 40, FLANGED		11.000	Pieces	
4		L741118141202004	SIGHT FLOW GLASSES, NB 50, FLANGED		5.000	Pieces	
5		L741118141202005	SIGHT FLOW GLASSES, NB 65, FLANGED		5.000	Pieces	
6		L741118141202006	SIGHT FLOW GLASSES, NB 80, FLANGED		20.000	Pieces	

* Within 60 days from the date of Design/Quality Document approval

Annexure AA				
SL No	Mat. code	Mat. Description	Qty	UoM
1	L741118141202001	SIGHT FLOW GLASSES, NB 15, FLANGED	5.000	Pieces
2	L741118141202002	SIGHT FLOW GLASSES, NB 25, FLANGED	11.000	Pieces
3	L741118141202003	SIGHT FLOW GLASSES, NB 40, FLANGED	11.000	Pieces
4	L741118141202004	SIGHT FLOW GLASSES, NB 50, FLANGED	5.000	Pieces
5	L741118141202005	SIGHT FLOW GLASSES, NB 65, FLANGED	5.000	Pieces
6	L741118141202006	SIGHT FLOW GLASSES, NB 80, FLANGED	20.000	Pieces



CONTROLS & INSTRUMENTATION (FB)
PRE-QUALIFICATION REQUIREMENT (PQR)

CI:PE: PQR: SFG

SIGHT FLOW GLASS

Sl.No. (A)	Bid Requirements (B)	Bidder Compliance (C)	Documents to be submitted by bidder for PQR validation (D)
1	Bidder shall be the original Equipment manufacturer (OEM) of Sight Flow Glasses (OR) The bidder can be an OEM authorized representative.	YES / NO	For OEM: - Certificates like Factory Registration (or) BIS license (or) ISO registration (or) equivalent & Product catalogues For OEM authorized representative: - a) Representative needs to submit an Authorization Certificate from OEM, clearly indicating the validity period as well as rights granted by OEM to them i.e. to quote/ supply/ after sales service etc. b) Product catalogue shall be submitted
2	Offered Make of Sight Flow Glasses should have already supplied for any industrial installations in India as on the date of Techno-Commercial bid opening.	YES / NO	(a) PO copies with invoice (or) Dispatch clearance from the end user of earlier executed order before the date of techno commercial bid opening (Atleast one PO shall not be older than 5 years). (b) Datasheet, Drawing and Test report of earlier executed order.

General Notes:

1. On meeting the Bid requirements, Bidder to provide their compliance for each point in the Bidder compliance column C.
2. Vendor shall submit, sealed & signed copy of the documents, as requested in column (D).
3. Before submission, Bidder to ensure the correctness of the documents. If any discrepancy is noted, the offer is liable for rejection.

Bidder Sign & Seal:



Bharat Heavy Electricals Limited
Piping Centre Chennai-17

ENGINEERING DEPARTMENT

Rev.No	Specification No.	Sheet No.
02	PC : TSP : 81006	1 of 4

TECHNICAL SPECIFICATION FOR SIGHT FLOW INDICATOR

09					
08					
07					
06					
05					
04					
03					
02	11.12.18	Material of Sensing element & Body revised	-sd- M.Santhiya	-sd- B.Sumith	-sd- R.Prabha
01	27.08.02	Generally revised	-sd- E.Loganathan	-sd- R.Prabha	-sd- GR.Srinivasan
00	04.08.93	Fresh issue	-sd- E.Loganathan	-sd- GR Srinivasan	-sd- GR.Srinivasan
REV.	DATE	ALATERATION	PREPARED	CHECKED	APPROVED



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Piping Centre Chennai-17

ENGINEERING DEPARTMENT

Rev.No	Specification No.	Sheet No.
02	PC : TSP : 81006	2 of 4

TECHNICAL SPECIFICATION FOR SIGHT FLOW INDICATOR

1.0 SCOPE

- 1.1 This standard specifies the requirement of sight flow indicators for use in Utility/Captive Power Plants.

2.0 DATA SHEET

- 2.1 In addition to the general specification, specific data sheet is enclosed indicating special requirements of each instrument/group of instruments.
- 2.2 Wherever the specification/data sheet requires information to be furnished by the tenderer/supplier, the same shall be furnished in the offer.

3.0 TECHNICAL REQUIREMENTS

- 3.1 Sight flow indicators shall be either FLAPPER DUAL WINDOW / DRIPLIP / ROTOR / BALL type.
- 3.2 Sight glasses used shall be of toughened borosilicate. 'KLINGER' make glasses shall be preferred.
- 3.3 The sensing element shall be of SS 316 material. 
- 3.4 The body material shall be carbon steel as per IS1239 /Stainless steel as indicated in project specific data sheet 
- 3.5 Bidder shall confirm the following gauge glass properties and confirm providing TC to that effect.
- 3.5.1 Resistance to bending strength = 150 N/mm.sq.
- 3.5.2 Resistance to thermal shocks, T=230 Deg.C.
- 3.5.3 Alkaline Resistance, Causticize group 2 (to DIN 52322)
surface shortage after 3 hours = 125 mg/dm.sq.
- 3.5.4 Water Resistance, Hydraulic group 1 (toDIN 12111)



Bharat Heavy Electricals Limited
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ENGINEERING DEPARTMENT

Rev.No	Specification No.	Sheet No.
02	PC : TSP : 81006	3 of 4

TECHNICAL SPECIFICATION FOR SIGHT FLOW INDICATOR

- 3.5.5 Acid Resistance, Acidity group 1 (to DIN 12116)
- 3.5.6 Refractive Index = Better than 1.44
- 3.5.7 Linear expansion = From 20 Deg.C. to 300 Deg 5.0 x 10 mm

4.0 INSPECTION & TESTING

- 4.1 Please refer BHEL/Piping Centre's Document No.

5.0 DOCUMENTS

- 5.1 The following documents in ENGLISH shall be supplied in triplicate along with the offer.
- 5.1.1 Detailed catalogue of instrument and all accessories along with O&M manual.
- 5.1.2 Detailed drawing of the instrument and mounting arrangement drawing.
- 5.1.3 Quality Plan.
- 5.2 Tenderer shall provide a note of commitment that the offer complies in all respects with the specification or a deviation list with reasons, if any.
- 5.3 Within one month after placement of order, vendor shall submit the following documents in ENGLISH (15 sets each).
- 5.3.1 Catalogue
- 5.3.2 Data Sheet
- 5.3.3 O & M Manual
- 5.3.4 Certified Dimensional Drawings

6.0 PACKING

- 6.1 Packing shall be with bubbled polythene to avoid transit damage to sight flow glass.



Bharat Heavy Electricals Limited
Piping Centre Chennai-17

ENGINEERING DEPARTMENT

Rev.No	Specification No.	Sheet No.
02	PC : TSP : 81006	4 of 4

TECHNICAL SPECIFICATION FOR SIGHT FLOW INDICATOR

7.0 GENERAL

- 7.1 Whenever the information furnished in the enclosed data sheet contradicts that furnished in the general specification, the information furnished in the data sheet shall be applicable.
- 7.2 It is not the intent to specify completely herein all aspects of design and construction of equipment. Nevertheless the equipment shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation in a manner acceptable to the owner who will interpret the meaning of specification for the purpose of which the owner reserves the right to alter the specification even during the contract execution stage for which commercial implications will not be entertained.
- 7.3 Routine Test Certificate detailing test results of each instrument along with reports of type tests shall be furnished.

8.0 GUARANTEE

This shall cover 24 months from the date of shipment or 18 months from the date of commissioning whichever is later.

BHARAT HEAVY ELECTRICALS LIMITED PIPING CENTRE MADRAS- 17 QUALITY ASSURANCE & CONTROL DEPT. QA:03		STANDARD QUALITY PLAN FOR SIGHT FLOW INDICATOR						QP NO:QPG:028 REV.NO. 01 DATE.18.04.96
PREPARED BY : R. LOGANATHAN		REVIEWED BY: S.R. KANNAPPAN		APPROVED BY : S. BALAMURUGAESAN		PAGE:01 OF 02		
S.NO	COMPONENT/ OPERATION	CHARACTERISTICS	TYPE OF CHECK	QUANTUM OF CHECK	REF.DOCUMENT/ACCEPTANCE STANDARD	TYPE OF RECORD	AGENCY ** B	REMARKS
1	2	3	4	5	6	7	8	9
1	Raw Material (Body, Sensing Element Flange, & Accessories	Chemical & Mechanical	Verification	Sample	BHEL Approved Specn.	T.C	H V	** BHEL APPD.VENDOR B BHEL/QC V VERIFICATION W WITNESS H HOLD
2	Assembly & in process Inspection.	Dimension of individual Components	Measurement	100%	Manufacturer's Drg, & std	Log Book	H V	
		Assembly, Performance, Finish	Mechanical "	100% 100%	BHEL Approved specn."	Log Book	H V	
			Visual	100%	No visual defect	Log Book	H V	
3.1	Type Test Borosilicate	Bending strength resistance	Verification	Sample	BHEL Specification	Test Report	H V	
3.2		Water Resistance	- Do -	-Do-	-Do-	-Do-	H V	

MASTER COPY

BHARAT HEAVY ELECTRICALS LIMITED PIPING CENTRE MADRAS - 17 QUALITY ASSURANCE & CONTROL DEPT. QA:03		STANDARD QUALITY PLAN FOR SIGHT FLOW INDICATOR						QP NO:QPG:028 REV.NO. 01 DATE.18.04.96	
PREPARED BY : R. LOGANATHAN		REVIEWED BY: S.R.KANNAPPAN				APPROVED BY : S.BALAMURUGAESAN		PAGE: 02 OF 02	
S.NO	COMPONENT/ OPERATION	CHARACTERISTICS	TYPE OF CHECK	QUANTUM OF CHECK	REF.DOCUMENT/ACCEPTANCE STANDARD	TYPE OF RECORD	AGENCY ** B	REMARKS	
1	2	3	4	5	6	7	8	9	
4.0	Routine/Final Inspection	Hydraulic Test	Mechanical	100%	At 1.5 Times Process medium Pressure	-DO-	W W		
4.1		Flapper Deflection	Visual	-Do-	As per BHEL Specification.	I.R	W W		
4.2		Mounting & Flange connection	Visual & Measurement	-Do-	-Do-	-Do-	W W		
4.3		Finish & Painting	-Do-	-Do-	-Do-	MFR REPORT	W V		
4.4		Packing	-Do-	-Do-	-Do-	-Do-	W V		
Note:1.LPI to be done on welded joints. 2.Supplier to furnish copy of type test report /certificate obtained from BHEL approved /recognised labs. for BHEL approval. 3.Supplier should conduct 100% Routine/ final Inspection as specified in the QP. AND offer total quantity to BHEL enabling BHEL TO WITNESS final inspection of random sample. 4.Supplier to furnish all documents required for inspection along with the call letter. 5.All Instruments & gauges used in measuring/ Testing the product to be calibrated & records shall be maintained 6.Supplier to relevent Test Certificates to BHEL at the time of inspection.									

MASTER COPY



DATA SHEET FOR
SIGHT FLOW GLASSES
(REFER SPECIFICATION : PC:TSP:81006)

PROJECT :
Sagardighi 1X660MW
CUST. No.
7411

Item No.	01	02	03	04	
SERVICE	COOLING WATER FLOW				
MEDIUM	WATER				
TAG NO.	QHX12 CF301 QHX13 CF501 QHX21 CF505 QHX22 CF505 QHX22 CFXXX	QHX14 CF501 QHX15 CF501 QHX21 CF501 to QHX21 CF504 QHX22 CF501 to QHX22 CF504 QHX22 CFXXX	QHX17 CF501 QHX17 CF502 QHX23 CF501 QHX23 CF502 QHX24 CF501 QHX24 CF502 QHX25 CF501 QHX25 CF502 QHX26 CF501 QHX26 CF502 QHX26 CFXXX	QHX27 CF501 QHX27 CF502 QHX28 CF501 QHX28 CF502 QHX28 CFXXX	
TYPE	FLAP (SS 316)				
QTY. PER BOILER TOTAL	5/5	11/11	11/11	5/5	
Process Parameters	Design / operating Pressure kg/cm^2	10 / 7	10 / 7	10 / 7	10 / 7
	Temperature $^{\circ}\text{C}$	60	60	60	60
Process Connection	Size	NB 15	NB 25	NB 40	NB 50
	Type	Flanged	Flanged	Flanged	Flanged
Accessories required	Counter Flanges, Gasket (Neoprene) & Fasteners.				
Test required	To be tested at 150% of Maximum operating pressure				
Documentation	As Per specification clause				
Prpd.: SRS		Chkd.: SRS	Drg. No.		Rev. No.
Appd.: DK		Date: 29.01.24	DS: SFG: SAGARDIGHI		Altd.
					Appd.
					SHT. 01 OF 03



PROJECT :	Sagardighi 1X660MW
CUST. No.	7411

Item No.		05		06	
SERVICE		← COOLING WATER FLOW →			
MEDIUM		← WATER →			
TAG NO.		QHX27 CF503 QHX27 CF504 QHX28 CF503 QHX28 CF504		QHX23 CF503 QHX24 CF503 QHX30 CF501 QHX30 CF502	QHX34 CF501 QHX34 CF502 QHX35 CF501 QHX35 CF502
		QHX28 CFXXX		QHX31 CF501 QHX31 CF502	QHX36 CF501 QHX36 CF502
				QHX32 CF501 QHX32 CF502	QHX37 CF501 QHX37 CF502
				QHX33 CF501 QHX33 CF502	QHX36 CFXXX QHX37 CFXXX
TYPE		FLAP (SS 316)			
QTY. $\frac{\text{PER BOILER}}{\text{TOTAL}}$		5/5		20/20	
Process Parameters	Design / operating Pressure kg/cm ²	10 / 7		10 / 7	
	Temperature °c	60		60	
Process Connection	Size	NB 65		NB 80	
	Type	Flanged		Flanged	
Accessories required		← Counter Flanges, Gasket (Neoprene) & Fasteners. →			
Test required		To be tested at 150% of Maximum operating pressure			
Documentation		← As Per specification clause →			
		Rev. No.	Date	Alterations	Altd.
Prp'd.: SRS		Chkd.: SRS			Drg. No. DS: SFG: SAGARDIGHI
App'd.: DK		Date: 29.01.24			Rev. 00
					SHT. 02 OF 03



DATA SHEET FOR
SIGHT FLOW GLASSES
(REFER SPECIFICATION : PC:TSP:81006)

PROJECT :
Sagardighi 1X660MW
CUST. No. 7411

Notes:

- 1) Material:
- Body Material : SS304
- Indicator : SS316
- Flanges & counter flanges : SS304
- Connection pipe : SS304
- Cover Plate : SS304
- 2) Bolts and nuts: High tensile steel
- 3) Sight Glass: Toughened borosilicate

NOTE:

This datasheet requirement is priority over the technical specification Ref PC:TSP:81006 in case of any conflicts.

			Rev. No.	Date	Alterations	Altd.	Appd.
Prpd.: SRS	Chkd.: SRS	Drg. No. DS: SFG: SAGARDIGHI			Rev. 00	SHT. 03 OF 03	
Appd.: DK	Date: 29.01.24						



SUB-DELIVERY ENQUIRY DEVIATION FORMAT



MATERIALS MANAGEMENT / BOI SUB-DELIVERY ENQUIRY DEVIATION (SDED) FORMAT

Schedule of deviation to Sub-delivery Enquiry No. : **GEM BID NO :**

Description : **PROCUREMENT OF SIGHT FLOW INDICATORS**

Specification : **PC:TSP:81006 REV 02**

Drawing Nos. : **--**

Quality Plan : **QPG 28 REV 01**

Packing Procedure : **--**

Document reference	BHEL called for	Firm's alternative offer
	NIL Deviation as per Enquiry Documents	

Certified that other than the above deviations, we are accepting all the other specifications and requirements in full to your Enquiry. We also note and confirm that other than the SDED format, hidden deviations indicated elsewhere in the offer are not be considered.

Station :

Date :

Signature of firm's representative

Firm seal

Note :
1. Deviations should be taken only in the extreme case
2. If necessary, use additional sheets with page control number

**On Bidder's office letter pad /
MII Self-Declaration**

Enquiry No. & Date	GEM BID NO-
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In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt.04.06.2020 issued by DPIIT, I / We hereby declare that I / We are a “Local Supplier” meeting the requirement of minimum local content (.....%) defined in the above government notification for the goods against above mentioned enquiry number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be considered as breach of Integrity and liable for action.

For
Company Name:
Seal:
Signature:

Date:
Place:

(Please fill all the yellow colour fields)

Additional Terms and Conditions for GeM Enquiry (Annexure-2)

The terms and condition mentioned in this document are applicable in addition to the GeM General Terms and Conditions. Bidders shall furnish pointwise confirmation/details.

Description of the Equipment:	SIGHT FLOW INDICATORS	
Projects	SAGARDIGHI	
BHEL/GEM Tender No. & Date	GEM BID NO :	
<i>To be filled by bidder</i>		
Name of the firm (Bidder)	:	
Office Address	:	
Works Address	:	
Contact details	<u>Contact person 1</u> Name: Designation: Office Phone: Mobile: e-mail: <u>Contact person 2</u> Name: Designation: Office Phone: Mobile: e-mail:	
Offer reference with date	:	

Sl. No	Terms and conditions	Vendor's Confirmation Fill as Accepted/ Not Accepted / Noted /Agreed						
1 (a)	Technical: Supply of tendered items shall be as mentioned below. <table border="1" style="margin: 10px auto; width: 80%;"> <tr> <th>Schedule Ref</th> <th>Project</th> <th>Technical Requirements</th> </tr> <tr> <td>Schedule 1</td> <td>SAGARDIGHI</td> <td>Refer Technical Catalogue</td> </tr> </table>	Schedule Ref	Project	Technical Requirements	Schedule 1	SAGARDIGHI	Refer Technical Catalogue	
Schedule Ref	Project	Technical Requirements						
Schedule 1	SAGARDIGHI	Refer Technical Catalogue						
1 (b)	Price: The quoted / finalised rates shall be firm. PVC clause is not applicable.							
1(c)	Delivery term: Rate quoted in GeM portal should be as per Annexure-AA on F.O.R BASIS inclusive of all taxes, packing, forwarding, freight, etc also to yours account. Transit Insurance is under BHEL scope.							

1(d)	Please indicate the applicable HSN Code for all items.	
1 (e)	Please indicate the applicable GST % for all items.	%
1 (f)	Bidder to mention Freight (%) considered while submitting the bid on GeM portal. Kindly note GeM quoted price in inclusive of Material Cost & inclusive of all taxes, Packing, forwarding, Freight, etc.	%
1 (g)	The tender will be evaluated as Package/Schedule basis only. Evaluation shall be on Package/Schedule basis – Total landed cost to BHEL including all cost upto destination. Currency of evaluation shall be INR only .	
1 (h)	Delivery Period: For this GeM tender, delivery period is 60 days from manufacturing clearance date as indicated in Annexure-AA . Delivery period is inclusive of all the activities like manufacturing, inspection, packing, forwarding and delivery at project site / BHEL Stores. Material shall be dispatched after obtaining dispatch clearance from BHEL. Delivery period mentioned anywhere else in the bid document is for indicative purpose. Delivery schedule shall be as per this clause.	
1 (i)	Bidders offers will be considered for price bid opening subject to the fulfilment of the following conditions I. PQR requirement II. Techno-Commercial suitability III. Customer Approval	
1 (j)	Offer Validity: 120 days minimum from GeM tender opening date (Part-I). Bidder shall accept any validity extension requests upto this period through GeM portal if requested by BHEL. The price arrived after RA(if applicable) shall be valid till 45 days from the completion RA or 120 days from GeM tender opening date (Part-I) whichever is later.	
1(k)	Manufacturing shall be started only after obtaining manufacturing clearance from BHEL.	
2 (a)	MSME /NON MSME STATUS: (MICRO / SMALL / MEDIUM / NON-MSME). Pl indicate your firm status	
2 (b)	<i>Udyam Registration certificate shall be submitted by MSE vendors for availing the benefits.</i>	
2 (c)	Payment terms:	
	For Direct to Project Site despatch	
(i)	For Non MSME suppliers, Payment term is 100% direct EFT payment on 90th day from the date of Site Acknowledgement (Against submission of GST invoice (Triplicate), Packing List (Triplicate), GeM invoice, copy of Site Acknowledged LR).	
(ii)	For MSE suppliers, Payment term is 100% direct EFT payment on 45th day from the date of Site Acknowledgement (Against submission of GST invoice (Triplicate), Packing List (Triplicate), GeM invoice, copy of Site Acknowledged LR).	

(iii)	For Medium Suppliers, Payment term is 100% direct EFT payment on 60th day from the date of Site Acknowledgement (Against submission of GST invoice(Triplicate), Packing List(Triplicate), GeM invoice, copy of Site Acknowledged LR).	
	For BHEL Trichy Stores despatch	
(i)	For Non MSME suppliers, Payment term is 100% direct EFT payment on 90th day from the date of Vehicle/Gate entry (Against submission of GST invoice(Triplicate), Packing List(Triplicate), GeM invoice, LR copy and acceptance of material by BHEL).	
(ii)	For MSE suppliers, Payment term is 100% direct EFT payment on 45th day from the date of Vehicle/Gate entry (Against submission of GST invoice (Triplicate), Packing List (Triplicate), GeM invoice, LR copy and acceptance of material by BHEL).	
(iii)	For Medium Suppliers, Payment term is 100% direct EFT payment on 60th day from the date of Vehicle/Gate entry (Against submission of GST invoice (Triplicate), Packing List (Triplicate), GeM invoice, LR copy and acceptance of material by BHEL).	
	Any deviation to the payment term may lead to rejection of offer.	
2(d)	Performance Security: Not Applicable for this tender.	
3	Warranty Period: A Guarantee certificate for 18 months from the date of shipment or 12 months from the date of commissioning / putting into use whichever is earlier shall be furnished. No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period, it may lead to rejection of offer.	
4	Liquidated Damages: If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.(SAP code :PU) Date of reckoning LD shall be as below: - For Direct to Project Site despatch: - Site Acknowledgement date. - For BHEL Trichy stores Despatch: - Vehicle/Gate Entry date. Any deviation to the above clause may lead to rejection of offer.	
5	Make in India: For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non- Local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT. The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the Location(s) at which the local value addition is made. The tendered items are non-divisible in nature for each package.	

6	Document Submission after PO: Complete set of applicable documents viz., Datasheet and Quality Plan are to be submitted for BHEL / customer approval within 10 days from receipt of PO. Any comment on the documents by BHEL / Customer to be replied / revised (as applicable) within 5 days. Any delay from vendor side beyond defined time period will be considered as vendor delay only and the delay period will be deducted from calculated delivery date while making delivery date extension if applicable.	
7	Documents are to be submitted along with technical bid (Part-1) Bidder to submit the complete documents as per tender requirement along with their offer submission. All the technical documents which have been attached along with our enquiry i.e Technical Requirements, Technical Specification, Data Sheets, Drawings, QP, Packing Procedure, MII Local content declaration etc, signature to be endorsed on all pages with company seal. Any query (Technical/Commercial) during evaluation stage, shall be replied within 3 days from BHEL email date and all clarification will be initiated through email only. If the vendor fails to respond, even after 3 reminders, then the vendor will be considered as non-responsive and their offer shall be liable for rejection.	
8	Inspection and testing requirements: Inspection and testing requirements are to be carried out as per the specification and BHEL/Customer approved Drawing, Technical spec & QP. All test certificates are to be submitted in complete set. BHEL reserve the right to inspect the item ordered at any stage at vendor's works and if found not meeting the stipulated conditions, material is liable for rejection. <u>Inspection notice period:</u> For TPI inspector visit to vendor works, a minimum of 3 days' notice period is required. For Joint Inspection, vendor shall raise inspection call at least 7 working days prior to the proposed date of inspection at vendor works. Any comments on the CQIR report to be replied by the vendor within 3 days. Any delay regarding this will be considered as vendor's delay. In case of any quality rejection of materials, the supplier has to collect the materials at his own cost for replacement within specified days. Otherwise the materials will be scrapped.	
9.	GOODS & SERVICE TAX (GST) REGISTRATION & COMPLIANCE - Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration Number (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 GSTN portal. The dealer has to submit necessary documents if there is any change in status under GST. - 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. Wherever E-Invoice is	

	applicable, the tax invoice/ CN / DN submitted by the vendor must contain the QR code generated in E-Invoice Portal & IRN. iii. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code). iv. Invoices will be processed only upon completion of statutory requirement and further subject to following: • Vendor declaring such invoice in their GSTR-1 Return/ IFF • Receipt of Goods or Services and Tax invoice by BHEL. v. As the continuous uploading of tax invoices in GSTN portal (in GSTR-1/ IFF) is available for all (i.e. both Small & Large) tax payers, 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 GSTN 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 GSTR-2A/ GSTR-2B). vi. 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. vii. 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 viii. 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. ix. 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. x. 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 will be generated in GSTN portal subsequent to vendor accepting the TDS deduction in the GSTN portal & the vendor can directly download the Certificate from the GSTN Portal.	
10.	<u>Fraud Prevention Policy</u> Bidder along with its associate /collaborators /sub-contractors /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 any fraud or suspected fraud as soon as it comes to their notice.	

11.	SECURITY 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 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. All the input details: transmittals and sample drawings supplied for preparation of drawings are confidential information of BHEL for specific purpose only. The contractor shall never pass on / part with the information to anybody and shall maintain the secrecy of the information. As soon as the bills are certified by BHEL, all the relevant drawing files shall be erased from PCs and shall not be made use under any circumstances. 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 unauthorized activity.	
12.	Deduction of tax at source (TDS) on payment of certain sum for purchase of goods u/s 194Q of the Income tax Act: TDS on Purchase of Goods u/s 194Q of the Income Tax Act 1961 has been introduced vide Finance Act 2021. The provisions of above section are to be made applicable w.e.f. 01.07.2021. The provisions of section 194Q are reproduced below: Section 194Q : Any person, being a buyer who is responsible for paying any sum to any resident (hereafter in this section referred to as the seller) for purchase of any goods of the value or aggregate of such value exceeding fifty lakh rupees in any previous year, shall, at the time of credit of such sum to the account of the seller or at the time of payment thereof by any mode, whichever is earlier, deduct an amount equal to 0.1 per cent. of such sum exceeding fifty lakh rupees as income-tax. Explanation--For the purposes of this sub-section, "buyer" means a person whose total sales, gross receipts or turnover from the business carried on by him exceed ten crore rupees during the financial year immediately preceding the financial year in which the purchase of goods is carried out, not being a person, as the Central Government may, by notification in the Official Gazette, specify for this purpose, subject to such conditions as may be specified therein. The key aspects of the provisions of section 194Q are as under: a. Section 194Q requires the buyer of goods to deduct TDS @ 0.1% at the time of payment to the seller or at the time of credit to the account of seller whichever is earlier. b. TDS is deductible where the value of goods purchased during the year exceeds Rs. 50 Lacs and is applicable on the value in excess of Rs.50 lacs. c. Buyer for this section means a person having total sales/gross receipts/turnover exceeding Rs.10 crore during previous financial year TCS on Sales of goods as per section 206C (1H), which is currently applicable @ 0.1%, would not be applicable wherever TDS has been deducted u/s 194Q TDS. This is in line with proviso to section 206C (1H) which states that TCS provisions will not apply if the buyer is liable to deduct TDS on the purchase of goods under any other section of the Income Tax Act 1961 and has deducted the same.	
13.	Any change in applicable rates of Tax or any other statutory levies (Direct / Indirect) or any new introduction of any levy by means of statute and its corresponding liability for the deliveries beyond the agreed delivery date for reasons not attributable to BHEL	

	will be to vendors account. BHEL will not reimburse the same and any subsequent claim in this respect will be summarily rejected.	
14.	<u>Breach of contract, Remedies and Termination:</u> In case of breach of contract, 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: - From dues available in the form of Bills payable to defaulted supplier against the same contract. - From the dues payable to defaulted supplier against other contracts in the same Region/Unit /any other region/unit - In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier. Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., will be applied as per provisions of the contract.”	
15.	Vendors shall strictly adhere to the following. - After material readiness and inspection completion (by TPI/ BHEL/ End Customer), vendor shall seek dispatch clearance from BHEL. - After obtaining dispatch clearance from BHEL, vendor shall proceed to generate dispatch documents. After generating dispatch documents (Invoice, LR, E-waybill etc.) vendor shall immediately share these documents to BHEL (scan copy over email) for accounting the materials and securing insurance coverage. - After accounting, BHEL would be issuing movement clearance to vendor immediately. Only after movement clearance is received from BHEL, actual/physical movement of goods out of vendor’s premises shall commence. - Non-adherence to the above may lead to GST authorities seizing the vehicle & goods and imposing penalty & interest. Any such implication would be to vendors account only. - Provision of GST Act highlighted below in connection to this - Pursuant to Sec 31 of CGST Act 2017, a tax invoice has to be raised by the registered person supplying taxable goods before or at the time of removal of goods for supply to the recipient, where the supply involves movement of goods. Where a taxable person supplies any goods without issue of any invoice, the tax authorities has powers to detain the consignment and impose penalties equivalent to 200% of the tax payable as per Section 129 of CGST Act 2017.	
16.	The offers of the bidders who are under suspension and 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.” 1.0 Integrity commitment, performance of the contract and punitive action thereof: 1.1. 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. 1.2. Commitment by Bidder/ Supplier/ Contractor: 1.2.1. 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.	

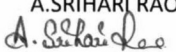
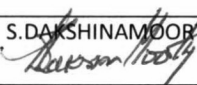
	1.2.2. The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL. 1.2.3. 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 malpractices, 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 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 extant guidelines of the company available on www. bhel.com and/or under applicable legal provisions”.	
17.	Set off : BHEL shall have the right to recover any money which in the sole opinion of BHEL is due from the supplier from any money due to the supplier under this Contract or any other contract or from the Security Deposit/BG furnished by the supplier under this Contract or any other contract.	
18.	Cartel Formation: 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.	
19.	Conflict of Interest Among Bidders/Agents: <i>"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:</i> <i>a) they have controlling partner (s) in common;· or</i> <i>b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or</i> <i>c) they have the same legal representative/agent for purposes of this bid; or</i> <i>d) they have relationship with each other, directly or through common third parties, <u>that puts them in a position to have access to information about or influence on the bid of another Bidder; or</u></i> <i>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, <u>this does not limit the inclusion of the components/ sub-assembly! Assemblies from one bidding manufacturer in more than one bid.</u>· or</i> <i>f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:</i> <i>1. The principal manufacturer directly or through one</i>	

	<i>Indian agent on his behalf; and</i> <i>2. Indian/foreign agent on behalf of only one principal;</i> <i>or</i> <i>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</i> <i>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. "</i>	
Note	1. In the event of our customer order covering this tender being cancelled /placed on hold / otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution. 2. BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL. 3. BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit. 4. Any other Techno – Commercial Terms indicated by the vendor in their offer elsewhere will be ignored. BHEL will proceed with tender evaluation as per Bid ATC and GeM general terms and conditions only.	
20	Financial Soundness: Not Applicable for this tender.	
21	Integrity Pact: Not Applicable for this tender.	

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI**

**CONTROLS AND INSTRUMENTATION / FB
QUALITY ASSURANCE**

**STANDARD PACKING PROCEDURE
FOR
ALL INSTRUMENTS AND MISCELLENEOUS ITEMS
(ELECTRICAL, ELECTRONIC AND PNEUMATIC)**

Rev	Date	Prepared	Checked	Approved	Revision History
00	01.01.96	Sd/-	Sd/-	Sd/-	Initial History
01	28.03.02	Sd/-	Sd/-	Sd/-	Department name changed
02	26.02.07	Sd/-	Sd/-	Sd/-	Revised after discussion with Shipping Dept.
03	17.12.16	A.SRIHARI RAO 	RM.VAIRAVAN 	S.DAKSHINAMOORTHY 	Revised to suit all type of instruments.

1. Scope

This procedure gives minimum guidelines to be complied with for packing of Electrical, Electronic and pneumatic Instruments. This packing shall be suitable for different handling operations and for the adverse conditions during transportation and during indoor / outdoor storage for period more than one year.

2. Material for packing

The individual instrument shall be packed in carton box (specifically made for particular instrument) and grouped together inside a box made of wood or plywood as per National / International standard.

3. Packing

- Items shall be inspected for cleanliness immediately before packaging. Dirt, oil, residue, metal chips or other forms of contamination shall be removed.
- Adequate protection shall be provided against mechanical damage and atmospheric corrosion in transit and, for equipment suitable for outside storage, for prolonged storage at the site prior to installation.
- Water proof barrier material – high density polythene shall be used as a resistant to grease and water; it shall protect items from airborne and windblown soils.
- Desiccants like silica gel to be used inside the carton box. Silica gel shall conform to IS 3401. The gel is to be packed in sachets placed at different positions inside the components for absorbing moisture. The quantity of silica gel shall be adequate for storage period of one year.
- All tapped openings in equipment shall be plugged with plastic plugs to protect internal / external threads.
- Use a sturdy cardboard shipping carton, large enough for at least 3 inch foam padding around the instrument.
- Do not use loose plastic foam pieces, which can shift during transport.
- Secure the box flaps with packaging tape or box staples.

3.1) Marking & Labelling:

- Components and their containers shall be identified by marking. Shipping marks shall be on all sides of package. The shipping marks shall be at least 3 inches high where space permits. Markings are to be in black paint or ink depending on shade of the package surface.
- Cautionary symbols to be stenciled in red waterproof paint or ink.

QA:CI:STD:PR:04 / Rev 03

- The gap between job and the box shall be filled with suitable material like jute, coir, thermo coal, etc.
- For export packing additional care shall be taken as per contract requirements if applicable. Otherwise, suitable box made of seasoned wood and / or plywood sheets of required thickness shall be used with suitable sea worthy packing protection.

4. Marking

- After completing the packing, Stencil marking, as per dispatch instructions and symbol marking as per Annexure – I shall be made. Please ensure the box is stenciled with “FRAGILE ITEM”, “HANDLE WITH CARE”.

5. Packing Slip

- A copy of the packing slip, kept in a polythene cover shall be kept inside the box. Another copy of the packing slip, kept in a polythene cover shall be kept outside the box and firmly fixed to the case.

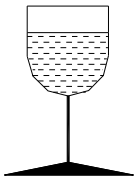
6. Caution

- Do not pack any other Mechanical items with this case.

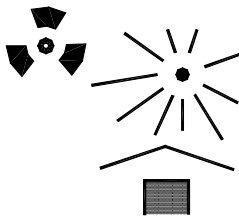
7. General

- These packing procedures are the minimum requirements in addition to the standard instructions mentioned in the Purchase Order and Specification.
- Deviation to meet the packing procedure requirements / non-clarity in packing approach in any quotation will be liable for rejection of offer.

ANNEXURE – 1



FRAGILE, HANDLE WITH CARE



PROTECT FROM HEAT AND RADIOACTIVE SOURCES



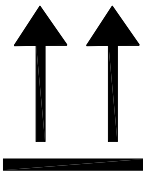
USE NO HOOKS

NOTE: The design of heavy goods packages cannot always resist top lifting by grabhooks.



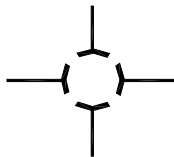
KEEP DRY

NOTE: Not all cases have waterproof internal liners: plywood used in the construction may not have a waterproof glue line.



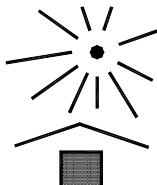
THIS WAY UP

NOTE: Certain designs of small cases make it difficult to distinguish top from bottom.



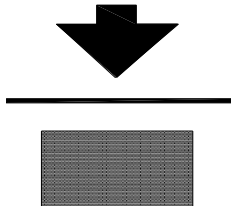
CENTRE OF GRAVITY

NOTE: This should be stencilled as a minimum on the two longest case sides (this information will normally be supplied by the manufacturer of the item(s) packed).



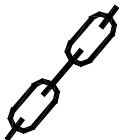
KEEP AWAY FROM HEAT

... kg max



STACKING LIMITATION

NOTE: The maximum load in kilograms should be marked above the arrow.



INTERNATIONAL "SLING HERE" SYMBOL