



**PURCHASE SPECIFICATION
STRING MONITORING BOX (16-IN, 1-OUT) WITH
WIRELESS COMMUNICATION**

PS-439-1334

Rev No: 00

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23.	Solar PV Straight connectros	<p>Cable connector to be used for String monitoring boxes shall be In accordance with IEC 62852: 2014.</p> <p>Rated Current, IEC (85 degC) - 30A Rated Voltage- 1500 V Connector design- Snap in Locking Type Protection degree- IP68 (mated) Ambient Temperature- (-) 40 degC to (+) 85 degC Protection/Safety Class- Class II Contact material- Cu Contact Surface material- Silver/ Tin Contact resistance for plug connector- <= 0.5 milli-ohms Stripping length- 10 mm Inflammability Class acc to- UL 94-V0 Insulating material- PPE/ PPO/ Polyamide Pollution degree- 3 Certification- UL/TUV/CSA/EAC or equivalent</p> <p>The field connectors proposed shall have type test certificates for the following-</p> <ul style="list-style-type: none">I. Protection Degree (IP)II. Operating TemperatureIII. InflammabilityIV. Pollution DegreeV. Voltage Withstand (Rated Voltage/Test Voltage)VI. Product Certification
24.	Cable entry	Bottom side
25.	Earthing	Necessary earthing provisions and terminations shall be made available in SMB.
26.	Breathers	IP65 or better

Any other additional accessories as may be considered relevant and applicable for the operation of string monitoring boxes shall be included in the scope and brought out in the offer.



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4.0 Testing and inspection

TYPE TEST-

SMB offered for 1500V application should have been already type tested/ Product certification from any National/ International accredited lab for following-

- I. Temperature rise test on complete assembled Box as per acceptable limit mentioned in relevant clause.
- II. Type test for enclosure as per code and standard mentioned in relevant clause.
- III. Thermal ageing at 70 Deg C for 96 hours as per IEC 60068-2
- IV. HV Test

If type test reports are not available, vendor shall take up for type testing of SMB at no extra cost to BHEL.

Acceptance tests, as per relevant standards (IS, IEC and other), shall be carried out on the string monitoring (combiner) box and all the tests shall be witnessed by BHEL. Vendor shall submit Quality Plan, indicating relevant IS/IEC standards, within one week from PO

Following shall be the minimum tests included in QAP.

Visual, dimensional inspection and quantity check

Bill of materials check

Electrical continuity check

HV insulation tests

Heat run test on 1 no sample (type test)

Functional checks for / wireless system output for current, SPD status.

Complete assembled SMB shall be subject to heat run type test to be witnessed by owner after manufacturing. In case it is found that the temperature rise is beyond the acceptable limits, bidder shall redesign the assembly and perform the test free of cost to verify that temp rise is within acceptable limit

SMB quality plan should include the following:

A) Checks on bought out items as per internal standards of the manufacturer

B) In-process checks, as per internal standards of the manufacturer

C) Sample tests as per following:

1) IR-HV-IR test (sampling as per General Inspection Level-II and AQL 1.0% as per IS 2500 Part 1)

2) String Monitoring Card/ Power Supply card/ DC-DC Converter function check (sampling as per General Inspection Level-II and AQL 1.0% as per IS 2500 Part 1)

3) Communication Function Test (sampling as per General Inspection Level-II and AQL 1.0% as per IS 2500 Part 1)

Indicative Quality Plan is attached as Annexure-II to this specification.

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5.0 Scope of Commissioning Support

1	BHEL's scope of installation and commissioning: (a) Movement and erection of string monitoring combiner boxes at the respective places in solar array field, including execution of all necessary civil works and erection of mounting structures. (b) Laying of power cables (provided by BHEL), including formation of all necessary cable trenches, from string monitoring boxes to the PCUs in control room. (c) Crimping and connection of the incoming and outgoing power cables of string monitoring combiner boxes.
2	Vendor's scope of commissioning: Vendor shall configure the controllers of individual SMBs with details such as ID/address, wireless transmitter and receiver configuration, SCADA interface settings etc. For this, vendor shall depute their installation service engineer to site at the time of SCADA installation phase, and also shall interact with BHEL / SCADA team at site to demonstrate the SCADA-interfacing readiness of individual SMBs. All necessary machinery such as Laptop, instruments, meters, accessories and tools shall be arranged at site by vendor

6.0 Documents to be submitted within 7 days after receipt of purchase order

1	General Arrangement of string monitoring (combiner) box, with detailed dimensions, bill of materials, make part number / rating / quantity of individual components, overall weight, applicable standards.
2	Product catalogues / datasheets of string monitoring combiner boxes, enclosures of combiner boxes, DC disconnect switch, surge protection device, controller cards, DC-DC converter, wireless communication equipment etc.
3	Manufacturing Quality Plan for the String Monitoring Box Modbus map details of SMB communication card

7.0 Documents to be submitted along with consignment

1.	Test reports of string monitoring combiner boxes.
2.	Operations and maintenance manual for string monitoring combiner box.

8.0 Warranty period service:

During the warranty period, whenever a technical problem is encountered with the SMB, BHEL will report the same to the vendor.

1. All failed material replacements during warranty period shall be in scope of the vendor.
2. Vendor shall confirm that the problem is attended to by their service engineer within five days from the date of reporting failure.



CORPORATE QUALITY ASSURANCE
SUB-VENDOR QUESTIONNAIRE

i.	Item/Scope of Sub-contracting	
ii.	Address of the registered office	Details of Contact Person <i>(Name, Designation, Mobile, Email)</i>
iii.	Name and Address of the proposed Sub-vendor's works where item is being manufactured	Details of Contact Person: <i>(Name, Designation, Mobile, Email)</i>
iv.	Annual Production Capacity for proposed item/scope of sub-contracting	
v.	Annual production for last 3 years for proposed item/scope of sub-contracting	
vi.	Details of proposed works	
1.	Year of establishment of present works	
2.	Year of commencement of manufacturing at above works	
3.	Details of change in Works address in past (if any)	
4.	Total Area	
	Covered Area	
5.	Factory Registration Certificate	Details attached at Annexure – F2.1
6.	Design/ Research & development set-up <i>(No. of manpower, their qualification, machines & tools employed etc.)</i>	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design Details attached at Annexure – F2.2 <i>(if applicable)</i>
7.	Overall organization Chart with Manpower Details <i>(Design/Manufacturing/Quality etc)</i>	Details attached at Annexure – F2.3
8.	After sales service set up in India, in case of foreign sub-vendor <i>(Location, Contact Person, Contact details etc.)</i>	Applicable / Not applicable Details attached at Annexure – F2.4
9.	Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any	Details attached at Annexure – F2.5
10.	Sources of Raw Material/Major Bought Out Item	Details attached at Annexure – F2.6
11.	Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing	Details attached at Annexure – F2.7




**CORPORATE QUALITY ASSURANCE
SUB-VENDOR QUESTIONNAIRE**

ANNEXURE I


12.	Manufacturing facilities (List of machines, special process facilities, material handling etc.)	<i>Details attached at Annexure – F2.8</i>			
13.	Testing facilities (List of testing equipment)	<i>Details attached at Annexure – F2.9</i>			
14.	If manufacturing process involves fabrication then-	<i>Applicable / Not applicable</i>			
	List of qualified Welders	<i>Details attached at Annexure – F2.10</i>			
	List of qualified NDT personnel with area of specialization	<i>(if applicable)</i>			
15.	List of out-sourced manufacturing processes with Sub-Vendors' names & addresses	<i>Applicable / Not applicable</i> <i>Details attached at Annexure. –F2.11</i> <i>(if applicable)</i>			
16.	Supply reference list including recent supplies	<i>Details attached at Annexure – F2.12</i> <i>(as per format given below)</i>			
Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply
17.	Product satisfactory performance feedback letter/certificates/End User Feedback	<i>Attached at annexure - F2.13</i>			
18.	Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating) <i>Note:- Reports need not to be submitted</i>	<i>Applicable / Not applicable</i> <i>Details attached at Annexure – F2.14</i> <i>(if applicable)</i>			
19.	Statutory / mandatory certification for the proposed product	<i>Applicable / Not applicable</i> <i>Details attached at Annexure – F2.15</i> <i>(if applicable)</i>			
20.	Copy of ISO 9001 certificate (if available)	<i>Attached at Annexure – F2.16</i>			
21.	Product technical catalogues for proposed item (if available)	<i>Details attached at Annexure – F2.17</i>			
Name:		Desig:		Sign:	
Date:					

Company's Seal/Stamp:-


ANNEXURE II

Sl No	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
					5 M	6 C/N				M	C	N	
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>ITEM String Monitoring Box / AJB</p> </div> <div style="text-align: center;"> <p>STANDARD QUALITY PLAN</p> <p>CONFORMING TO CODE : IS / IEC / NTPC TECHNICAL SPECIFICATION</p> </div> <div style="text-align: right;"> <p>QP.No:0000-999-QOE-S-57</p> <p>Rev No.: 0</p> <p>Date: 04.02.2015</p> <p>VALID UPTO: 03.02.2018</p> </div> <div style="text-align: right;"> <p>REVIEWED BY: D.K. D...</p> <p>APPROVED BY: V. Talwar</p> <p>Raksha Singh</p> </div> </div>													
1	2	3	4	5	6 M	6 C/N	7	8	9	D	**	10	11
1.00 Raw Material/Bought out Item Checks-													
1.01	Enclosure	a	Dimensions Check	Major	Dimensional	5 No. Per offered lot	5 No. Per offered lot	Approved Dwg./Mfr. Std.	Approved Dwg./Mfr. Std.	Inspection report	P	-	-
		b	Make, Material type & grade check	Major	COC verification	-	-	Approved Dwg./Data sheet / QP	Approved Dwg./Data sheet / QP	Supplier COC	V	-	-
		c	Surface Defects Check	Major	Visual	IS 2500, GIL-II, AQL 1.0, NIP	IS 2500, GIL-II, AQL 1.0, NIP	Mfr. Std.	free from crazings, blisterings, wrinkling, colour blots / striations and free from any repairs	Inspection report	P	-	-
		d	Visual check for completeness (door fitment, mounting brackets, door hinges & screws) etc	Major	Visual	IS 2500, GIL-II, AQL 1.0, NIP	IS 2500, GIL-II, AQL 1.0, NIP	Approved Dwg./Mfr. Std.	screws will be captive type, door to fit properly, mounting brackets will be hot dip galvanized/ powder coated / stainless steel	Inspection report	P	-	-
		e	Degree of Protection (IP) sealing arrangement check: a) Panel gasket profile & material check; b) door locking /closing arrangement	Major	Visual	-	-	Type Test Reports & appd data sheet	Type Test Reports	Type Test Report	V	-	-
1.03	Copper Bus Bar	a	Dimension Check	Major	Measure	IS 2500, GIL-II, AQL 1.0, NIP	IS 2500, GIL-II, AQL 1.0, NIP	Approved Dwg./Mfr. Std.	Approved Dwg./Mfr. Std.	Inspection report	P	-	-
		b	Material Grade & Conductivity Check	Major	TC verification	Mnfr std	Mnfr std.	Approved Dwg./Data sheet / Mfr. Std	Approved Dwg./Data sheet / Mfr. Std.	Supplier TC	V	-	-

LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. ** M: MANUFACTURER/ SUB-SUPPLIER; C: MAIN SUPPLIER, N: NTPC
P: PERFORM W: WITNESS AND V: VERIFICATION. CHP: CUSTOMER HOLD POINT BY NTPC SHALL BE IDENTIFIED UNDER AGENCY COLUMN "N" AS 'W'.

		ITEM String Monitoring Box / AJB		STANDARD QUALITY PLAN					QP.NO:0000-999-QOE-S-57		REVIEWED BY	APPROVED BY									
									Rev No.: 0		Date: 04.02.2018		Y. Talwar		Raksha Singh						
S/No		COMPONENT & OPERATIONS		CHARACTERISTICS		CLASS		TYPE OF CHECK		QUANTUM OF CHECK		REFERENCE DOCUMENT		ACCEPTANCE NORMS		FORMAT OF RECORD		AGENCY		REMARKS	
1.05	String Monitoring Card/ Power Supply Card/ DC-DC Converter	a	Make, Type, Model Check (CE / UL marked)	Major	Visual	100%	same as 6 M	Approved Dwg /Mnfr std	Approved Dwg /Mnfr std/QP	Inspection report	P	V	-						(CE / UL marked)		
		b	COC (Certificate of compliance) for electronic cards reg quality checks as per manufacturer std	Major	Compliance verification	Mnfr std	Mnfr std	Mnfr std.	Mnfr std	Supplier's COC		V	V	-							
		c	Functional Test	Major	Testing	100%	same as 6 M	NTPC Specification/ Mnfr std	NTPC Specification/ Mnfr std	Inspection report	P	V	-								
1.06	Switch Fuse Unit	a	Make & rating check	Major	Visual	100%	same as 6 M	Approved Dwg /Mnfr std	Approved Dwg /Mnfr std/QP	Inspection report	P	-	-								
		b	Functional Test (on - off check)	Major	Testing	100%	same as 6 M	Mnfr std	Mnfr std	Inspection report	P	-	-								
1.07	Fuses, Cable Glands, Terminal Blocks, Wires	a	Make, Size/ Rating check	Major	Visual	IS 2500, GIL-II, AQL 1.0, NIP	same as 6 M	Approved Dwg /Mnfr std	Approved Dwg /Mnfr std/QP	Inspection report	P	-	-								
2.00	In Process Checks-																				
2.01	Hole Marking & Drilling on Enclosure	a	Marking & Drilling Accuracy Check	Major	Dimensional	100%	same as 6 M	Approved Dwg /Mfr Std	No wrong Marking & Drilling	Inspection report	P	-	-								

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		CONFORMING TO CODE : IS / IEC / NTPC TECHNICAL SPECIFICATION		Rev No.: 0		D.K. Divit		Date: 04.02.2015		V. Tabwar		Approved	
S/No	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
					% M	% C/N				M	C	N	
1	2	3	4	5	6	7	8	9	D	**	10	11	
2.02	Cable Gland Mounting	a Size & Fitment check	Major	Visual	100%	same as 6 M	Approved Dwg./Mfr. Std.	Correct Gland part fitment	Inspection report	P	-	-	
2.03	Component Mounting	a Make, Rating & Quantity as per BOM Check	Major	Visual	100%	same as 6 M	Approved BOM/Approved Dwg./Mfr. Std./QP	Approved BOM/Approved Dwg./Mfr. Std./QP	Inspection report	P	-	-	
		b Placement of component Check	Major	Visual	100%	same as 6 M	Approved Dwg./Mfr. Std.	Correct placement of component as per	Inspection report	P	-	-	
		c Component Mounting Check	Major	Visual	100%	same as 6 M	Approved Dwg./Mfr. Std.	No physical damage of mounted component	Inspection report	P	-	-	
2.04	Wire Harnessing	a Wire Stripping Check	Major	Visual	100%	same as 6 M	Approved Dwg./Mfr. Std.	1) Proper stripping Tool 2) without damaging cable strands	Inspection report	P	-	-	
		b Lugs Crimping tool check	Major	report verification	100%	same as 6 M	Lugs & lug crimping tool supplier recommendations	tool should be calibrated	Tool calibration report	V	-	-	
		c Lugs Crimping Check	Major	Manual pull test	100%	same as 6 M	Approved Dwg./Mfr. Std.	No loose Lugs crimping	Inspection report	P	-	-	
2.05	Wire Connection	a Wiring check	Major	Visual	100%	same as 6 M	Approved Dwg./Mfr. Std.	Approved Dwg	Inspection report	P	-	-	
		b Connection Looseness Check	Major	Manual Pull Test	100%	same as 6 M	Approved Dwg./Mfr. Std.	No loose connection of mounted component	Inspection report	P	-	-	
		c Continuity Check	Major	Testing	100%	same as 6 M	Approved Dwg./Mfr. Std.	Continuity as per approved Drawing	Inspection report	P	-	-	



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Sl No	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS	
					6 M	6 C N				M	C	N		
1										D	**	10		11
Type Test Clearance from NTPC Engineering as per specification requirements to be verified during inspection														
3 00	Final Test	a	Enclosure Dimensional Check	Major	Measurement	IS 2500, GIL-II, AQL 1.0, NIP	IS 2500, GIL-II, AQL 1.0, NIP	Approved Dwg /Mfr Std	Approved Dwg	Final Inspection Report	P	W	V	
		b	Degree of Protection (IP) sealing arrangement check a) Panel gasket profile & material check; b) door locking /closing arrangement; c) Paper Pull check (place a sheet of photocopy paper between closing surface then close/lock the box then pull paper. paper should not come o.it without being	Major	Visual	1 sample per offered lot	1 sample per offered lot	Type Test Reports & appd data sheet	Type Test Reports	Type Test Report	P	W	V	
		c	Verification of Make & Rating of components as per BOM	Major	Visual	IS 2500, GIL-II, AQL 1.0, NIP	IS 2500, GIL-II, AQL 1.0, NIP	Approved BOM/Approved Dwg./Mfr. Std.	Approved BOM/Approved Dwg./Mfr. Std./QP	Final Inspection Report	P	W	V	

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Sl No	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS	
					6M	6CN				D	**	10		
					N									
1	2	3	4	5			7	8	9				11	
		d	Checking of Busbars Nut-Bolt tightness check	Major	Tightness	-do-	-do-	Approved Dwg /Mfr. Std	Approved Dwg /Mfr. Std	Final Inspection Report	P	W	V	
		e	Switch Fuse Unit Function Test (ON/OFF)	Major	Testing	-do-	-do-	functional check	functional check	Final Inspection report	P	W	V	
		f	Internal Wiring check for ferruling, termination & scheme verification	Major	Visual	-do-	-do-	Approved Dwg /Mfr. Std.	Approved Dwg.	Final Inspection report	P	W	V	
		g	Earthing point check	Major	continuity check	-do-	-do-	Approved Dwg /Mfr. Std.	Approved Dwg /Mfr. Std.	Final Inspection report	P	W	V	
		h	HV test and IR before & after HV Test	Major	Testing	-do-	-do-	500 V for IR & 2.5 KV for HV for power ckt	withstand HV & for IR, Insulation Value> 5Mohm	Final Inspection report	P	W	V	
		i	String Monitoring Card/ Power Supply card/ DC-DC Converter function check	Major	Testing	-do-	-do-	NTPC specification /Mfr. Std	NTPC specification /Mfr. Std.	Final Inspection report	P	W	V	
		j	Communication Function Test	Major	Testing	-do-	-do-	NTPC specification /Mfr. Std.	NTPC specification /Mfr. Std.	Final Inspection report	P	W	V	



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ಭಾರತ್ ಹವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

SCPV: BOS: ITB - Rev 04

INSTRUCTIONS TO BIDDERS (ITB)

Bidders are requested to read the instructions carefully and submit their quotations covering all the points:

A. GENERAL INSTRUCTIONS:

1. Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: SCPV: BOS: ITB – Rev 01), General Conditions of Contract (document reference: SCPV: BOS: GCC - Rev 01) and Special Conditions of Contract (document reference: SCPV: BOS: SCC: I - Rev 01/ SCPV: BOS: SCC: F - Rev 01), if any, of the enquiry.
2. Any deviations from or additions to the “General Conditions of Contract” or “Special Conditions of Contract” require BHEL’s express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
3. Bidders (also includes the term suppliers / contractors wherever used in this document) are instructed to quote their most competitive price and best delivery, etc. in the offer. Prices should be indicated in both figures & words. **(Please also refer clause 11 under section B)**
4. Regret letter (either through post or by mail) indicating reasons for not quoting must be submitted without fail, in case of non-participation in this tender. If a bidder fails to respond against 3 consecutive tenders for the same item, he will be liable for removal as a registered vendor of BHEL.
5. Procurement directly from the manufacturers shall be preferred. However, if the OEM / Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from the manufacturer / supplier and his agent, bid received from the agent shall be ignored.
6. Consultant / firm (and any of its affiliates) shall not be eligible to participate in the tender/s for the related goods for the same project if they were engaged for consultancy services for the same project.
7. If an Indian representative / associate / liaison office quotes on behalf of a foreign based bidder, such representative shall furnish compulsorily the following documents:
 - a. Authorization letter to quote and negotiate on behalf of such foreign-based bidder.
 - b. Undertaking from such foreign based bidder that such contract will be honored and executed according to agreed scope of supply and commercial terms and conditions.
 - c. Undertaking shall be furnished by the Indian representative stating that the co-ordination and smooth execution of the contract and settlement of shortages / damages / replacement / repair of imported scope till system is commissioned and handed over to customer will be the sole responsibility of the Indian representative / associates / agent / liaison office.
8. In case of imported scope of supply, customs clearance & customs duty payment will be to BHEL account after the consignment is received at Indian Airport / Seaport. Bidders must provide all original documents required for completing the customs clearance along with the shipment. Warehousing charges due to incomplete or missing documentation will be recovered from the supplier’s bill. All offers for imported scope of supply must be made from any of the gateway ports (within the country) indicated. **(Refer Annexure I)**
9. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of the banned firms is available on BHEL website: **www.bhel.com**.

10. Business dealings with bidders will be suspended if they are found to have indulged in any malpractices / misconduct which are contrary to business ethics like bribery, corruption, fraud, pilferage, cartel formation, submission of fake/false/forged documents, poor quality, certificates, information to BHEL or if they tamper with tendering procedure affecting the ordering process or fail to execute a contract, or rejection of 3 consecutive supplies or if their firms / works are under strike / lockout for a long period.

B. GUIDELINES FOR PREPARATION OF OFFER:

1. Quotation shall be submitted in Single Part Bid, Two Part Bid or Three Part Bid, as called for in the tender:
 - **SINGLE PART BID:** Technical and Commercial Bid with prices along with price summary & filled in BHEL Standard Commercial terms and conditions in a single sealed envelope.
 - **TWO PART BID:** Unpriced offer i.e. "Techno-commercial Bid" with filled in BHEL Standard Commercial terms and conditions in a sealed envelope **along with the copy of the "Price Bid" without the prices** should be enclosed in one cover and the cover must be super scribed "**Techno-commercial offer** and Priced offer i.e. "Price Bid" containing price summary in a separate sealed envelope and must be super scribed "**Price Bid**". Both these envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number, due date of tender and any other details as called for in the tender document.
 - **THREE PART BID:** Pre-qualification Bid (Part-I), Techno Commercial Bid with filled in BHEL Standard Commercial terms and conditions (Part-II), and Price Bid (Part-III). All three envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number due date of tender and any other details as called for in the tender document.

If any of the offers (Part I, Part II or Part III) are not submitted before the due date and time of submission at the venue/place specified or if any part of the offer is incomplete the entire offer of the bidder is liable for rejection.

2. Supplier shall ensure to super scribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid". Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.
3. BHEL standard Commercial Terms and Conditions shall be duly filled, signed & stamped and must accompany Technical-Commercial offer without fail and should be submitted in original only. Photocopy will not be accepted. All documents submitted along with the offer shall be signed and stamped in each page by authorized representative of the bidder.
4. Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if all terms and conditions of this enquiry are accepted by the supplier without any deviation.
5. Deviation to this specification / item description, if any, shall be brought out clearly indicating "DEVIATION TO BHEL SPECIFICATION" without fail, as a part of Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if the entire specification of this enquiry is accepted without deviation.
6. Suppliers shall submit one set of original catalogue, datasheets, bill of materials, dimensional drawings, mounting details and / or any other relevant documents called in purchase specification as part of Technical Bid.
7. "Price Bid" shall be complete in all respects containing price break-up of all components along with all applicable taxes and duties, packing & forwarding charges (if applicable), freight charges (if applicable) etc. Once submitted no modification / addition / deletion will be allowed in the "Price Bid." Bidders are advised to thoroughly check the unit price, total price to avoid any discrepancy.
8. In addition, bidder shall also quote for erection & commissioning charges (I&C charges), documentation charges, service charges, testing charges (type & routine), training charges, service tax, etc. wherever applicable. The price summary must indicate all the elements clearly.
9. Vendors should indicate "lump sum" charges (including To & Fro Fare, Boarding, Lodging, Local Conveyance etc.) for Supervision of Erection, Commissioning and handing over to customer. The quotation shall clearly indicate scope of work, likely duration of commissioning, pre-commissioning checklist and service tax (if any).
10. Wherever bidders require PAC (Project Authority Certificate) for import of raw materials, components required for Mega

Power Projects, Export Projects, MNRE Concession or other similar projects wherein supplies are eligible for customs duty /Excise duty benefits, lists and quantities of such items and their values (CIF) has to be mentioned in the offer. Prices must be quoted taking into account of such benefits.

11. All quotations shall be free from corrections /overwriting. Corrections if any should be authenticated with signature and seal. Any typographical error, totalling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per **Annexure VI** "Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid". BHEL decision will be final.

C. GUIDELINES FOR OFFER SUBMISSION:

1. Offers / Quotations must be dropped in tender box before 13.00 Hrs. on or before due date mentioned in RFQ. The offers are to be dropped in the proper slot of the Tender Box kept in our reception area with caption "CE, SC&PV, DEFENCE." Tenders are opened on 3 days in a week (Monday/Wednesday/Friday). Tender must be deposited in the slot corresponding to the day (Monday - Box no.4/Wednesday - Box no. 6 /Friday - Box no.8) while depositing the offer. **(This clause will not be applicable for e-tenders).**
2. E-Mail / Internet / EDI offers received in time shall be considered only when such offers are complete in all respects. In case of offers received through E-mail, please send the offer to the email IDs within time of submission of tender.
3. In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand or through posts/couriers, the offers are to be handed over to purchase officers.
4. Tenders will be opened on due date, time and venue as indicated in the RFQ in the presence of bidders at the venue indicated in the RFQ. In case of e-procurement, bidders can see tender results till seven days after due date and time.
5. Vendor will be solely responsible:
 - a. For submission of offers before due date and time. Offers submitted after due date and time will be treated as "Late offers" and will be rejected.
 - b. For submission of offers in the correct compartment of the tender box based on the day of due date (Monday/Wednesday/Friday). Please check before dropping your offer in the correct tender box.
 - c. For depositing offers in proper sealed condition in the tender box. If the bidder drops the tender in the wrong tender box or if the tender document is handed over to the wrong person BHEL will not be responsible for any such delays.
 - d. For offers received through email/courier etc., suppliers are fully responsible for lack of secrecy on information and ensuring timely receipt of such offers in the tender box before due date & time.
 - e. In case of e-tender, all required documents should be uploaded before due date and time. Availability of power, internet connections, etc. will be the sole responsibility of the vendor. Wherever assistance is needed for submission of e-tenders, help line numbers and executives of service provider of BHEL may be contacted.
Service provider: e-Procurement Technologies Limited (abc Procure)
Website address: <https://bhel.abcprocure.com>
Helpline no.: +91-79-68136819/809/862/867/823/872/842 (9:30 am to 5:30 pm)
10:00 AM - 07:00 PM (Monday - Friday)
10:00 AM-04:00 PM (Saturday)

Purchase Executive / BHEL will not be responsible for any of the activities relating to submission of offer.

D. PROCESSING OFFERS RECEIVED:

1. Any discount / revised offer submitted by the supplier on its own shall be accepted provided it is received on or before the due date and time of offer submission (i.e. Part-I bid). The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.
2. Changes in offers or Revised offers given after Part-I bid opening shall not be considered as a part of the original offer unless such changes / revisions are requested by BHEL.
3. In case there is no change in the technical scope and / or specifications and / or commercial terms & conditions by BHEL, the supplier will not be allowed to change any of their bids after Technical bids are opened (after the due date and time of tender opening of Part-1 Bid).

4. In case of changes in scope and/ or technical specifications and/ or commercial terms & conditions by BHEL and it accounts for price implications from vendors, all techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. Impact price will be applicable only for changes in technical specification / commercial conditions by BHEL. The impact price must be submitted on or before the cut-off date specified by BHEL and the original price bid and the price impact bid will be opened together at the time of price bid opening. Impact price means only for those items which have been impacted by addition / deletion / changes in the technical specifications or commercial conditions. The impact may be +/- incremental value of the currency in which originally quoted. The impact price bid to be submitted on the cut-off date, time & venue as specified by BHEL. The impact price bid shall be opened along with original price bid.
5. Un-opened bids (including price bids) will be returned to the respective bidders after release of PO and receipt of order acknowledgement from the successful bidder.
6. After receipt of Purchase Order, supplier should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and / or any other relevant documents as per Specification / Purchase Order, as and when required by BHEL / Customer.
7. Any deviation to the terms and conditions not mentioned in the quotation by supplier in response to this enquiry will not be considered, if put forth subsequently or after issue of Purchase Order, unless clarification is sought for by BHEL EDN and agreed upon in the Purchase Order.
8. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL"). As per RFQ terms. "Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and duties, inspection charges, freight charges, test charges, insurance, service tax for services, any other cost indicated by vendor for execution of the contract and loading factors (for non-compliance to BHEL Standard Commercial Terms & Conditions). Benefits arising out of Nil Import Duty on Mega Projects, Physical Imports or such 100% exemptions & MNRE Exemptions (statutory benefits), customer reimbursements of statutory duties (like Excise Duty, CST, VAT) will also be taken into account at the time of tender evaluation. (Wherever applicable and as indicated in SCC document of tender)
9. For evaluation of offers in foreign currency, the exchange rate (TT selling rate of SBI) shall be taken as under:

Single part bids:	Date of tender opening
Two/three part bids:	Date of Part-I bid opening
Reverse Auction:	Date of Part-I bid opening

In case of Performance Bank Guarantee (PBG) also, exchange rate will be considered as mentioned above for converting foreign currency to Indian currency and vice versa.

If the relevant day happens to be a bank holiday, then the exchange rate as on the previous working day of the bank (SBI) shall be taken.
10. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers and on the basis or evaluation of Total Cost to BHEL.

E. INFORMATION ON PAYMENT TERMS:

1. All payments will be through Electronic Fund transfer (EFT). Vendor has to furnish necessary details as per BHEL standard format (**Refer Annexure IV**) for receiving all payments through NEFT. (Applicable for Indian vendors only)
2. Statutory deductions, if any, will be made and the deduction certificate shall be issued. In case vendor does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act. (Applicable for Indian vendors only). Foreign vendors shall submit relevant details of their bankers like Swift Code, Banker's Name & Address etc.
3. Vendors must submit bills & invoices along with required supporting documents in time. Incomplete documentation / delayed submission of invoice / documents will result in corresponding delay in payment.

F. STANDARD PAYMENT TERMS OF BHEL-EDN**Purchase Orders for indigenous procurement****(a) SUPPLY WITH I&C/SUPERVISION:****Supply:**

- 1) 80% of basic Supply value + 100% of taxes, duties and freight charges will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

I&C/Supervision: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

O&M: 100% O&M charges are payable as per RFQ terms against report certified by BHEL.

(b) SUPPLY ONLY:

- 1) 100% of Basic value with taxes, duties and freight will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later)+ submission of PBG valid for Warranty Period+ 3 months Claim Period from BHEL Consortium Bank ,if applicable.

Purchase orders for import procurement:**(c) SUPPLY WITH I&C/SUPERVISION:****Supply:**

- 1) 80% of the basic value (excluding I&C charges) will be paid with 45 days credit, against Sight draft, from the date of AWB/BOL on submission of complete set of documents as in PO.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

I&C: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

(d) SUPPLY ONLY:

- 1) 100% of PO value will be paid against Sight draft with 45 days Credit from the date of dispatch or 15 days credit from the date of submission of complete set of documents whichever is later)+ submission of PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank ,if applicable.

Note for (a), (b), (c) and (d): In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also 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) as PBG is linked to Warranty period.

G. LOADING FACTORS FOR PAYMENT TERMS & DELAYED DELIVERY:

Loading factors as detailed below will be added to the quoted price (basic) to evaluate the lowest quote for non-compliance of BHEL standard commercial term.

SI No	Deviation on	Nature of Deviation / Offered Terms	Loading %
1.	Payment Terms	For Purchase within India :-	
		1) Credit period less than 45 days	15
		* For Foreign Purchase :-	
		1) Payment through At Sight Letter of Credit	10
		2) Payment through Letter of Credit with usage of 45 days	
2.	Penalty for Delayed Delivery	1) Non – Acceptance	10
		2) Partial Acceptance (X%)	(10 – X)

Please see last page (Page No.9) for Loading Factors for foreign Purchase

*** All bank charges shall be to seller's account. If bank charges of BHEL banker are to BHEL's account then additional loading of 2% on the quoted basic value is applicable.**

Offer/s with payment terms other than the standard payment terms indicated at Clause No. F or Deviated Payment Terms with loading indicated at Clause No. G above are liable for rejection.

NOTES:

- ADVANCE PAYMENT/LC: Quotations with "Advance payment/Inland LC" shall be rejected.
- Basic value of Purchase Order mentioned above will include all components of the purchase order and will exclude only taxes, duties, freight and I&C charges (wherever applicable).
- Wherever the Purchase Order is split into import portion and indigenous portion of supply the retention money will be 10% (as applicable) of both purchase order values put together.
- Non-Compliance of Warranty terms. Offers not complying with Warranty terms as per RFQ Terms is liable for rejection.
- SALE IN TRANSIT/ LOCAL VAT: Sale in transit under section 6(2) of CST is allowed if movement of goods is interstate. In case intra state movement of goods, benefit of sale in transit is not available.
- In case of intrastate movement i.e. supply within same state and VAT is applicable, the vendor shall furnish the respective BHEL's nodal agency TIN no. and address in their invoice. (Refer **Annexure IX**)

H. BANK GUARANTEE (BG) / PERFORMANCE BANK GUARANTEE (PBG):

- Bank guarantee (BG) / Performance bank guarantee (PBG) will be applicable as called in the tender documents. Such PBG shall be valid for a period of Warranty Period + claim period of 3 months for a value equal to 10 % of the basic value of the purchase order. No deviation for the duration of PBG / BG will be permitted.
 - PBG shall be from any of the BHEL consortium of bankers (**refer Annexure V**).
 - PBGs from nationalized banks are also acceptable.

- c. PBG should be sent directly by the bank to the dealing executive mentioned in the purchase order located at the address mentioned in the purchase order. PBG should be in the format indicated. **(Refer Annexure III)**. No deviation to these formats will be allowed.
- d. Confirmation from any of the BHEL consortium of banks or any of the Indian Public Sector Banks is essential for the acceptance of PBGs issued by foreign banks (located outside India).
- e. Expired BGs / PBGs will be returned only after expiry of the claim period or on completion of the contractual obligation.
- f. In case vendor does not accept for submission of PBG, the vendor is liable for rejection on commercial grounds.

I. DOCUMENTS (TRIPLICATE COPIES) REQUIRED AT THE TIME OF DISPATCH FOR PROCESSING OF BILL:

1. FOR INDIGENOUS SCOPE OF SUPPLY:

For Supply: Invoice in Triplicate, Lorry receipt (LR) copy, Packing List, PSI Call Letter Copy, Proof of delivery such as MRC (Material Receipt Certificate)/ original acknowledged LR, Insurance intimation Letter and Warranty Certificate. Note that document pertaining to Proof of delivery shall clearly mention number of boxes/panels etc which shall be in line with the Packing list.

For I&C: Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C).

For PBG: Supplementary Invoice in Triplicate with copy of PBG. However, PBG should reach concerned Purchase Officer directly from the Bank.

2. FOR IMPORTED SCOPE OF SUPPLY:

For Supply: Invoice in Triplicate, Air Way Bill/Bill of Lading, Packing List, PSI Call Letter Copy, and Warranty Certificate.

For I&C: Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C).

For PBG: Supplementary Invoice in Triplicate with copy of PBG. Both PBG & supplementary invoice should reach concerned Purchase Officer directly from the Bank.

J. PROVISIONS APPLICABLE FOR MSE VENDORS (MICRO AND SMALL ENTERPRISES)

Vendors who qualify as MSE vendors are requested to submit applicable certificates (as specified by the Ministry of Micro, Small and Medium Enterprises) at the time of vendor registration. Vendors have to submit any of the following documents along with the tender documents in the Part I / Technical bid cover to avail the applicable benefits.

- a. Valid NSIC certificate or
- b. Entrepreneur's Memorandum part II (EM II) certificate (deemed valid for 2 years).
- c. EM II certificate with CA certificate **(in the prescribed format given in Annexure VIII)** applicable for the year certifying that the investment in plant and machinery of the vendor is within permissible limits as per the MSME Act 2006 for relevant status where the deemed validity is over.
- d. Documents submitted for establishing the credentials of MSE vendors must be valid as on the date of part I / technical bid opening for the vendors to be eligible for the benefits applicable for MSE vendors. Documents submitted after the Part I / Technical bid opening date will not be considered for this tender.

PURCHASE PREFERENCE FOR MSE VENDORS:

- e. MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 25% of the requirement against this tender provided. Minimum of 3% reservation for women owned MSEs within the above mentioned 25% reservation.
 1. The MSE vendor matches the L1 price.
 2. L1 price is from a non MSE vendor.
 3. L1 price will be offered to the nearest vendor nearest to L1 in terms of price ranking (L2 - nearest to L1). In case of non-acceptance by the MSE vendor (L2) next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).
 4. 25% of the 25% (i.e. 6.25% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) and (2) are fulfilled.
 5. In case no vendor under SC / ST category firms are meeting the conditions mentioned in (1) and (2) or have not participated in the tender, in such cases the 6.25% quantity will be distributed among the other eligible MSE vendors who have participated in the tender.

6. Serial no. 1 to 5 will not be applicable wherever it is not possible to split the tendered quantity / items on account of customer contract requirement, or the items tendered are systems. Such information that tendered quantity will not be split will be indicated in the SCC.

K. INTEGRITY COMMITMENT IN THE TENDER PROCESS, AND EXECUTION OF CONTRACTS:

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 / suppliers in a transparent and fair manner, and with equity.

2. Commitment by Bidder(s)/ Contractor(s):

- a. The Bidder(s)/ Contractor(s) commit(s) to take all measures to prevent corruption and will not directly or indirectly try to influence any decision or benefit which he is not legally entitled to.
- b. The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding or any actions to restrict competition.
- c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant Acts. The Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain or pass on to others, any information or document provided by BHEL as part of business relationship.
- d. The Bidder(s)/ Contractor(s) 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 the relevant guidelines issued from time to time by Government of India/ BHEL.

If the Bidder(s) / Contractor(s), before award or during execution of the Contract commit(s) a transgression of the above or in any other manner such as to put his reliability or credibility in question, BHEL is entitled to disqualify the Bidder(s) / Contractor (s) from the tender process or terminate the contract and/ or take suitable action as deemed fit.

L. FRAUD PREVENTION POLICY:

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

PURCHASE EXECUTIVE

Clause G of ITB: Loading Factors for Foreign Purchases

Nature of Deviation / Offered Terms	Loading %
100% Sight Draft	1 %
100% Usance LC with 45 days credit	2.5 %
100% LC at Sight	4.5 %



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

SCPV: BOS: GCC - Rev 03

GENERAL COMMERCIAL CONDITIONS FOR CONTRACT (GCC)

These 'General Commercial Conditions for Contract for Purchase' hereinafter referred to as GCC apply to all enquiries, tenders, requests for quotations, orders, contracts and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited and any of its units, regions or divisions (hereinafter referred to as "BHEL" or the Purchaser) or its projects / customers.

Any deviations from or additions to these GCC require BHEL's express written consent. The general terms of business or sale of the vendor shall not apply to BHEL. Acceptance, receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the vendor have been accepted.

Orders, agreements and amendments thereto shall be binding if made or confirmed by BHEL in writing. Only the Purchasing department of BHEL is authorized to issue the Purchase Order or any amendment thereof.

Definitions: Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.

- 'The Purchaser' means Bharat Heavy Electricals Limited, Electronics division, Mysore road, Bangalore 560 026, a Unit of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the Companies Act having its registered office at BHEL House, Siri Fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- 'The vendor' means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the vendor's successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor or Supplier.
- 'Contract' shall mean and include the Purchase Order incorporating various agreements, viz. tender/ RFQ, offer, letter of intent / acceptance / award, the General Conditions of Contract and Special Conditions of Contract for Purchase, Specifications, Inspection / Quality Plan, Schedule of Prices and Quantities, Drawings, if any enclosed or to be provided by BHEL or his authorized nominee and the samples or patterns if any to be provided under the provisions of the contract.
- 'Parties to the Contract' shall mean the 'The Vendor' and the Purchaser as named in the main body of the Purchase Order.
- "Bidder" shall mean duly established reputed organisation, manufacturer etc. having requisite financial and technical capability and experience of participating in the bid invited by the purchaser for the tender.
- Bid- The term "bid" or "bidding" can also relate to the documented Offer submitted in response to a request for quotation (RFQ) /Tender.

Interpretation:

In the contract, except where the context requires otherwise:

- words indicating one gender include all genders;
- words indicating the singular also include the plural and words indicating the plural also include the singular;
- provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- "Written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.