

ANNEXURE-B (For Indigenous vendor)

ACCEPTANCE OF TECHNO - COMMERCIAL TERMS AND CONDITIONS BY THE BIDDERS

Description of the Equipment:		Furnace flame viewing camera and Thermographic analysis system & Mandatory Spares
BHEL Tender No. & Date		
SI No.	Terms and conditions	Vendor's confirmation
1	<p>Technical : Supply of Furnace flame viewing camera and Thermographic analysis system & Mandatory Spares as per the spec.:CI:1718:TAS REV 00</p> <p>Vendor shall submit their own Quality Plan for BHEL approval</p>	
2	<p>Firm Price: The quoted / finalised rates shall be Firm till execution of the supplies. Offer with PVC clause will not be considered.</p>	
3	<p>FOR Basis: The quote shall be on respective FOR/ Suratgarh 660MW -7&8 (1718, 19) Site & BHEL/Trichy Stores basis as indicated in enquiry, inclusive of Packing and forwarding charges. Freight & Transit Insurance charges shall be vendor's scope and will be loaded as per clause 3 (a) & 3 (b).</p> <p>If vendor passing transit insurance under BHEL scope. offer will be loaded 0.082% of (basic material value + ED + forwarding & packing + freight charge).</p>	
3 (a)	<p>Freight charges: To be quoted as extra and not inclusive in the basic price (Mandatory to quote the same value in EPS)</p> <p>1) Main Item - FOR/ Suratgarh Site 2) Spares Item - BHEL/Trichy Stores</p>	
3 (b)	<p>Insurance charges: To be quoted as extra and not inclusive in the basic price (Mandatory to quote)</p> <p>1) Main Item - FOR/ Suratgarh Site 2) Spares Item - BHEL/Trichy Stores</p>	
4 (a)	<p>Payment terms: For Main Item - FOR/ Suratgarh Site 90% direct payment after 45 days from the date of dispatch against site acknowledgement and against 10% PBG valid for the warranty period. Balance 10% payment will be made against successful commissioning of the system at project site.</p> <p>FOR Spares Item - BHEL/Trichy Stores 100% direct payment after 45 days from receipt and acceptance of material at BHEL/Trichy stores.</p> <p>The given BHEL standard payment term needs to be accepted. Not accepting the BHEL standard payment term will result in the offer being liable for rejection.</p>	
4 (b)	<p>Payment through bank is not preferred. If still demanded by vendor, BHEL prefers submission through bank with copy of LR and door delivery of Good to site /Stores with consignee copy attached. In this case, loading will be 3% on the offered value. In case of Direct to site, only 90% through bank will be considered.</p>	
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5 (a)	<p>Liquidated damages: Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional LD at the rate of ½% of the total order value per week or part thereof subject to maximum of 10% of the total order value.</p> <p>For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof, subject to a maximum of 10% of the total order value.</p>	
5 (b)	<p>Loading Criteria</p> <p>LD / Penalty: Any deviation of the above LD/Penalty clause, loading will be applied to the extent to which it is not agreed by the bidder(at offered value).</p>	
6 (a)	<p>Guarantee / Warranty Period Guarantee clause 18months from the date of supply or 12 months from the date of actual put in use, whichever is earlier.</p>	
6 (b)	<p>Loading Criteria</p> <p>Guarantee / Warranty Period: No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period it may leads to rejection of offer.</p>	
7 (a)	<p>Performance Bank guarantee: 10% of material value as PBG shall be offered. (For main items only)</p>	
7 (b)	<p>Loading Criteria Performance Bank guarantee: No Deviation is permitted and the deviated offers are liable for rejection.</p>	
8	<p>Taxes & Duties: All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties.</p>	
8 (a)	<p>ED with cess Indicate the applicable %</p>	
8 (b)	<p>CST /VAT Indicate the applicable %</p>	
9	<p>Risk purchase: If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to Purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the delivery period mentioned in the Purchase Order.</p>	
10	<p>DELIVERY PERIOD: Our delivery term shall be 8 weeks from the date of data sheet approval.</p>	
11	<p>Validity: 120 days from Technical Bid opening. Non-compliance of the same will result in offer being liable for rejection</p>	
12	<p>GENERAL CONDITION: Kindly submit the 'no deviation format' with clear indication of data sheet no / specification ref, drawing, and quality plan.</p>	
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13	Reverse Auction: Reverse Auction is not applicable for this tender.	
14	BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.	
15	DOCUMENT SUBMISSION In case of PO, documents (drawings, data sheets and quality plan in triplicate) shall be submitted within 15 days from the date of receipt of po and the revised documents shall be submitted within 1 week from the date of receipt of engineering / quality comments	
16	QUANTITY OF TENDERED QTY BHEL reserves the right to increase or decrease the tendered quantity	
17	PRE QUALIFICATION REQUIREMENT The system shall have proven background in similar applications in fossil-fired power plants of similar or higher capacities. Vendor shall submit a list of reference of plants (for fossil fired boilers with capacity as per enquiry or above) where similar systems are in operation for more than one year. Vendor shall ensure accurate, reliable and trouble-free operation in conditions and environments that are normally found in fossil-fired power stations.	
18	MSE Clause: All vendors are requested to note the Annexure X –Special clauses for Micro and Small Enterprises (MSE) suppliers. If L1 vendor is an MSE vendor entire project package will be ordered on L1 vendor. If a Non MSE vendor is coming as L1, then L1 prices will be counteroffered on MSE vendor who is quoting price within the price band L1+15% and if they are agreeing purchase order will be awarded for full/complete supply of total tendered value to MSE. If more than one MSE vendors are available in the L1+15% price band then lowest of the MSE vendor will be selected for counteroffering. If lowest MSE vendor is not accepting it will be counteroffered to the next MSE vendor in the price band and so on. Finally if any of the MSE vendor in the price band is not accepting it will be ordered on L1 non MSE vendor. MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of documents as mentioned in the Annexure X. Vendor to confirm. The MSE clause will only be applicable to the Indian vendors who are quoting for the complete NIT requirement on their own in INR. Quotations should not be in collaboration with any foreign vendor i.e. part quotation in INR and part quotation in foreign currency if the vendor want to avail MSE clause.	
19	Erection and Commissioning support Charges: Lump sum charges of Erection and Commissioning support with exact Man days for the CCTV system with applicable extra Taxes (Service Tax) and Duties etc. in detail should be quoted separately. (If applicable)	
20	Service charges for Erection and Commissioning support Charges: Indicate the applicable service charges in percentage (If applicable)	
21	ANNEXURE – D Vendor shall submit unpriced bid in the Annexure - D along with techno-commercial offer. if not, their offer is liable for rejection. Also the filled Annexure - D shall be attached with PRICE BID with duly signed and stamped.	
22	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.	

ANNEXURE-B (For Import Vendor)

ACCEPTANCE OF TECHNO - COMMERCIAL TERMS AND CONDITIONS BY THE BIDDERS

Description of the Equipment:		Furnace flame viewing camera and Thermographic analysis system & Mandatory Spares
BHEL Tender No. & Date		
SI No.	Terms and conditions	Vendor's confirmation
1	<p>Items are required for Suratgarh 660MW -7&8 (1718, 19) projects.</p> <p>Technical : Supply of Furnace flame viewing camera and Thermographic analysis system & Mandatory Spares as per the spec.:CI:1718:TAS REV 00</p> <p>Vendor shall submit their own Quality Plan for BHEL approval</p>	
2	<p>Firm Price: The quoted / finalised rates shall be Firm till execution of the supplies. Offer with PVC clause will not be considered.</p>	
3	<p>The quotes shall be on FOB/ Nearest GATE WAY Airport basis basis. (List attached)</p> <p>If vendor passing transit insurance under BHEL scope, Offer will be loaded 0.082% of (Basic material value + ED + Forwarding & Packing + Freight charge).</p>	
4 (a)	<p>Payment terms:</p> <p>For Main Items - Suratgarh 660MW -7&8 (1718, 19) Project: BHEL Payment term is 90% payment on CAD basis after 45 days with 10 % PBG from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account. Balance 10% retention payment will be made after successful commissioning of the system at project site.</p> <p>For Mandatory Spares Requirement Project: 100% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account.</p> <p>The given BHEL standard payment term needs to be accepted. Not accepting the BHEL standard payment term will result in the offer being liable for rejection.</p>	
4 (b)	<p>1. In the case of Usage LCs the loading will be considered @ 1.5% on the offered Value.</p> <p>2. For LC at sight the loading will be considered @ 3.5% on the offered Value.</p> <p>3. Normally CAD at sight and Confirmed LCs are liable for rejection.</p>	
5 (a)	<p>Liquidated damages: Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional LD at the rate of ½% of the total order value per week or part thereof subject to maximum of 10% of the total order value.</p> <p>For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof, subject to a maximum of 10% of the total order value.</p>	
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5 (b)	<p>Loading Criteria LD / Penalty: Any deviation of the above LD/Penalty clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p>	
6 (a)	<p>Guarantee / Warranty Period Guarantee clause 18months from the date of supply or 12 months from the date of actual put in use, whichever is earlier.</p>	
6 (b)	<p>Loading Criteria</p> <p>Guarantee / Warranty Period: No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period it may leads to rejection of offer.</p>	
7(a)	<p>Performance Bank guarantee: 10% of material value as PBG shall be offered. (For main items only)</p>	
7(b)	<p>Loading Criteria Performance Bank guarantee: No Deviation is permitted and the deviated offers are liable for rejection.</p>	
8	<p>Taxes & Duties: All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties.</p>	
9	<p>Risk purchase: If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to Purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the delivery period mentioned in the Purchase Order.</p>	
10	<p>Delivery Period: Our delivery term shall be 8 weeks from the date of Data Sheet approval.</p>	
11	<p>Validity: 120 days from Technical Bid opening. Non-compliance of the same will result in offer being liable for rejection</p>	
12	<p>General Condition: Kindly submit the 'No deviation format' with clear indication of Data Sheet No / Specification ref, Drawing, and Quality plan.</p>	
13	<p>Reverse Auction: Reverse Auction is not applicable for this tender.</p>	
14	<p>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</p>	
15	<p>DOCUMENT SUBMISSION</p> <p>In case of PO, documents (drawings, data sheets and quality plan in triplicate) shall be submitted within 15 days from the date of receipt of po and the revised documents shall be submitted within 1 week from the date of receipt of engineering / quality comments</p>	
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16	<p>QUANTITY OF TENDERED QTY BHEL reserves the right to increase or decrease the tendered quantity</p>	
17	<p>PRE QUALIFICATION REQUIREMENT The system shall have proven background in similar applications in fossil-fired power plants of similar or higher capacities. Vendor shall submit a list of reference of plants (for fossil fired boilers with capacity as per enquiry or above) where similar systems are in operation for more than one year. Vendor shall ensure accurate, reliable and trouble-free operation in conditions and environments that are normally found in fossil-fired power stations.</p>	
18	<p>MSE Clause: All vendors are requested to note the Annexure X –Special clauses for Micro and Small Enterprises (MSE) suppliers.</p> <p>If L1 vendor is an MSE vendor entire project package will be ordered on L1 vendor. If a Non MSE vendor is coming as L1, then L1 prices will be counteroffered on MSE vendor who is quoting price within the price band L1+15% and if they are agreeing purchase order will be awarded for full/complete supply of total tendered value to MSE. If more than one MSE vendors are available in the L1+15% price band then lowest of the MSE vendor will be selected for counteroffering. If lowest MSE vendor is not accepting it will be counteroffered to the next MSE vendor in the price band and so on. Finally if any of the MSE vendor in the price band is not accepting it will be ordered on L1 non MSE vendor.</p> <p>MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of documents as mentioned in the Annexure X. Vendor to confirm.</p> <p>The MSE clause will only be applicable to the Indian vendors who are quoting for the complete NIT requirement on their own in INR. Quotations should not be in collaboration with any foreign vendor i.e. part quotation in INR and part quotation in foreign currency if the vendor want to avail MSE clause.</p>	
19	<p>Erection and Commissioning support Charges: Lump sum charges of Erection and Commissioning support with exact Man days for the CCTV system with applicable extra Taxes (Service Tax) and Duties etc. in detail should be quoted separately. (If applicable).</p>	
19 (a)	<p>Weight of the components: <u>Main requirement</u> i) Component Net Weight ii) Component weight with packing</p>	
19 (b)	<p>Weight of the component <u>Mandatory spares requirement</u> i) Component Net Weight ii) Component weight with packing</p>	
20	<p>ANNEXURE – D Vendor shall submit unpriced bid in the Annexure - D along with techno-commercial offer. if not, their offer is liable for rejection. Also the filled Annexure - D shall be attached with PRICE BID with duly signed and stamped.</p>	
21	<p>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.</p>	

ANNEXURE X

Micro Small and Medium Enterprises (MSE) – Clause for NIT

In line with Gazette notification issued by Ministry of Micro Small and medium enterprises on MSE suppliers, the following special provisions shall be applicable.

20% of the tendered quantity is earmarked for MSE suppliers in this tender.

Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs.

In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.

In case of tender items is not-splitable or non-dividable etc., MSE quoting price within the price band L1+15% may be awarded for full/complete supply of total tendered value to MSE

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either

1. EM II certificate having deemed validity (two years from the date of issue of acknowledgement in EM II) **or**
2. Valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status (MICRO or SMALL) where the deemed validity of EM II is over.

Date to be reckoned for determining the deemed validity will be the last date of technical bid submission (Part 1 in case of two part bid).

Non submission of such documents will lead to consideration of their bid at par with other bidders and MSE status of such suppliers shall be shifted to NON MSE suppliers till the supplier submit this documents.

Documents should be notarized or attested by a Gazetted officer.

Definitions of MSEs owned by SC/ST is under:

- ***In case of proprietorship firm, proprietor must be SC/ST.***
- ***In case of partnership firm, the SC/ST partners must be holding at least 51% shares in the unit.***
- ***In case of private limited companies, at least 51% share must be held by SC/ST promoters.***

Authorised Offices to Issue SC/ST certificate.

The caste/Tribe/Community certificate issued by the following authorities in the prescribed form for SCs/STs can be considered.

- District Magistrate/Additional District Magistrate/Collector/Deputy commissioner/Additional Deputy commissioner/Deputy collector/1st class stipendary magistrate/Sub divisional Magistrate/Taulka Magistrate/Executive magistrate/Extra Assistant commissioner.
- Chief Presidency magistrate/Additional chief presidency magistrate/Presidency magistrate.
- Revenue Officer not below the rank of thasildar.
- Sub-Divisional officer of the area where the individual and / or his family normally resides.

To avail the benefits of MSE under SC/ST category, the related documents as stated above should be submitted along with tender documents.

Annexure – C

MM/BOI/BHEL TRICHY

SPECIAL TERMS AND CONDITIONS

1. This tender is for the supply of **FURNACE FLAME VIEWING CAMERA AND THERMOGRAPHIC ANALYSIS SYSTEM & MANDATORY SPARES** as per specs, size and quantities mentioned in the attached enquiry.
2. The vendor shall have adequate experience in manufacturing and supply similar type of equipment.
3. The tender is in three parts as follows:

A) Part – I Pre-Qualification requirement:

- a. The offered type of equipment shall be in successful operation for a period of at least 1 year as on the date of techno-commercial bid opening in coal fired thermal power plant of similar unit rating.
- b. Performance feedback for successful operation from end user to be furnished.
- c. Commissioning and service support for the offered equipment shall be available in India.

Vendor to submit supporting documents for the same. Offers qualifying on the above requirement will only be considered for further processing.

B) Part – II Techno-commercial bid:

Techno commercial bid will be consisting technical offer with complete set of supporting documents and commercial bid without indicating the price.

Offers found suitable on technical and commercial grounds only, will be considered for further processing.

C) Part - III – Price Bid:

It will be consisting of price details:

All three bids are to be submitted in separate sealed covers, duly indicating the type of bid and enquiry number. These three envelopes will be sent in single cover duly super scribing the Enquiry Number.

In addition to the above mentioned three parts bid, vendors who qualify on Pre-Qualification Requirement and Techno-commercially and are not registered vendor of BHEL-Trichy has to submit the filled in "Supplier Registration Forms" (available at www.bheltry.co.in - Online Supplier Registration – Material Management or <http://vis.bheltry.co.in/olsa/>) before Price –Bid opening. Price bid of such vendors will be opened only after the receipt of all documents and registration with BHEL-Trichy.

Part – I Pre-qualification bid will be opened on due date:

The techno-commercial bid of the qualified vendors will be opened on a suitable date with due intimation. Based on the acceptance of techno-commercial bid and vendor evaluation, the price bid of the qualified vendors will be opened on a suitable date with due intimation.

Annexure – C
MM/BOI/BHEL TRICHY
SPECIAL TERMS AND CONDITIONS

Following will be the criteria for vendors to qualify:

- a. Vendor should have been approved by BHEL Trichy for this items under Permanent category (OR)
- b. Vendor should submit the following documents for considering them as an approved vendor:
 - i. Duly filled-in Supplier Registration Forms.
 - ii. Availability of minimum manufacturing, handling, testing and measuring facilities as detailed in the Supplier Registration Form.
 - iii. BHEL will have the right for spot assessment of the facilities for assessment.
 - iv. Qualifying to our techno commercial requirements of the Enquiry.

Supplier Registration Form (SRF) has to be duly filled up online and send one copy with all the documents as mentioned in SRF & if vendors have already submitted SRF & hard copy is sent to BHEL, can mention SRF Number (Application Number).

URL for online Registration form is as below

<http://vis.bheltry.co.in/olsa/>

For any help regarding filling of SRF, you may contact following

Mrs. Nalini Subramanian (Purchase Officer- Supplier Development Cell)
Ph:0431/2577301
Email ID: nalini@bheltry.co.in

Mr. Ebinesan (Sr. Manager- Supplier Development Cell)
Ph:0431/2577448
Email ID: ebi@bheltry.co.in

Systems / BHEL /TRICHY
Ph:System SDC:0431/2577121,ljp@bheltry.co.in

Ph:System ERP:0431/2577522,erpsubcon@bheltry.co.in

For any queries regarding tender you may contact

1) Mr. Mr. SYED SHAFAT HAMD RASOOL,
Engineer/MM/BOI
BHEL Trichy
0431-2577072
sshrasool@bheltry.co.in

2) Mrs.P.L. Pramila
DGM/MM/BOI
BHEL Trichy
0431-2574737
pramila@bheltry.co.in

Annexure – C
MM/BOI/BHEL TRICHY
SPECIAL TERMS AND CONDITIONS

4. BHEL reserves the right to increase or decrease the tendered quantity and split the tendered quantity among more than one tenderer and place orders accordingly in any proportion based on commitment, requirement and supplier's capability in terms of delivery and quality as assessed by BHEL.
5. BHEL reserves the right to negotiate the L1 rate.
6. BHEL reserves the right to re-float the tender opened, if L1 price is not the lowest acceptable price to BHEL inter-alia other reasons.
7. BHEL reserves the right to order on more than one vendor at the lowest acceptable price to BHEL.
8. Vendors have to confirm to the Commercial Terms and Special Terms & Conditions attached.
9. BHEL standard LD condition is 0.50 % per week to a maximum of 15 % for the undelivered portion of Material.
10. PO will be released only after customer approval.
11. Please indicate the exact location of WORKS / FACTORY.
12. The vendor who are not registered in BHEL PMD as permanent vendors must ensure that they complete the supplier registration formalities and get registered with BHEL Trichy as permanent PMD vendors before the price bid opening is done. The offers of the vendors who fail to so will be liable for rejection.



PURCHASE / MM / FB

SUB DELIVERY - ENQUIRY - DEVIATION

Page OF

SCHEDULE OF DEVIATION TO
SUB-DELIVERY ENQUIRY No.

	DATE	
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DESCRIPTION		
SPECIFICATION		DRG. No.
QUALITY PLAN		
DOCUMENT REFERENCE	BHEL ENQ. CALLED FOR	FIRM'S ALTERNATE OFFER

CERTIFIED THAT OTHER THAN THE ABOVE DEVIATIONS, WE ARE ACCEPTING ALL THE OTHER SPECIFICATIONS AND REQUIREMENTS IN FULL TO YOUR ENQUIRY

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.

Details of Gateway Airport with applicable Foreign Currency and Airlines for FSC payment **Schedule F**

Sch. No.	Country	CUR Code	Gateway Airport/s	Airlines with its Code For FSC Payment will be made	
D01	UK	GBP	London (Heathrow)	Air India	AI
D02	UK	GBP	New Castle	British Airways	BA
D03	UK	GBP	Oxford, Chelham	British Airways	BA
D04	UK	GBP	Bristol, Wellingborough	British Airways	BA
D05	UK	GBP	Birmingham	British Airways	BA
D06	UK	GBP	East Midlands	British Airways	BA
D07	UK	GBP	Manchester	British Airways	BA
D08	UK	GBP	Leeds	British Airways	BA
D09	UK	GBP	Glasgow	British Airways	BA
D10	France	EURO	Paris (Roissy) & Lyon	Air India	AI
D11	Sweden	EURO	Stockholm	Emirates	EK
D12	Sweden	EURO	Gothenberg & Malmo	Emirates	EK
D13	Italy	EURO	Rome, Milan	Carrier Used	Carrier Used
D14	Italy	EURO	Turin, Bologna, Florence	Carrier Used	Carrier Used
D15	Netherlands	EURO	Amsterdam, Rotterdam	Klm Airlines	KLM
D16	Austria	EURO	Vienna, Linz, Graz	Lufthansa	LH
D17	Belgium	EURO	Antwerp, Brussels	Singapore Airlines	SQ
D18	Denmark	DKK	Copenhagen	Cathay Pacific	CX
D19	Japan	JPY	Tokyo, Osaka	Air India	AI
D20	Singapore	SGD	Singapore	Air India	AI
D21	Canada	CAD	Toronto	Carrier Used	Carrier Used
D22	Canada	CAD	Montreal	Carrier Used	Carrier Used
D23	USA	USD	New York, Boston	Air India	AI
D24	USA	USD	Chicago	Carrier Used	Carrier Used
D25	USA	USD	San Francisco, Los Angeles	Carrier Used	Carrier Used
D26	USA	USD	Atlanta, Houston	Carrier Used	Carrier Used
D27	Germany	EURO	Munich, Kohn, Dusseldorf, Hannover, Hamburg, Stuttgart, Damstadt, Manihem, Nurnberg	Lufthansa	LH
D28	Germany	EURO	Frankfurt	Lufthansa	LH
D29	Germany	EURO	Berlin	Lufthansa	LH
D30	Switzerland	SFR	Basle, Zurich, Geneva	Swiss World Cargo	LX
D31	Spain	EURO	Barcelona	Emirates	EK
D32	Australia	AUD	Sydney	Qantas Airlines	QF
D33	Australia	AUD	Melbourne	Qantas Airlines	QF
D34	Australia	AUD	Perth	Qantas Airlines	QF
D35	Czech	EURO	Prague	Lufthansa	LH
D36	Hong Kong	HKD	Hong Kong	Air India	AI
D37	New Zealand	NZD	Auckland	Carrier Used	Carrier Used
D38	Russia	USD	Moscow	Carrier Used	Carrier Used
D39	South Korea	USD	Kimpo International, Incheon	Air India	AI
D40	Finland	EURO	Helsinki	Finnair Cargo	AY
D41	Romania	EURO	Bucharest	Carrier Used	Carrier Used
D42	Norway	EURO	Oslo	Carrier Used	Carrier Used
D43	Ireland	EURO	Dublin	Carrier Used	Carrier Used
D44	Israel	USD	Tel Aviv	El Al Israel	LY
D45	UAE	USD	Dubai	Air India	AI
D46	Oman	USD	Muscat	Air India	AI
D47	Egypt	USD	Cairo	Carrier Used	Carrier Used
D48	Taiwan	USD	Taipei	Carrier Used	Carrier Used
D49	Ukraine	USD	Kiev	Lufthansa	Carrier Used
D50	China	USD	Shanghai, Shenzhen	Carrier Used	Carrier Used
D51	Philippines	USD	Manila	Carrier Used	Carrier Used
D52	Malaysia	USD	Kualalumpur, Pe Nang	Malaysia Airlines	Carrier Used
D53	Cyprus	USD	Larnaca	Carrier Used	Carrier Used
D54	South Africa	USD	Johannesberg, Durban	Carrier Used	Carrier Used
D55	Slovakia	EURO	Bartislava	Lufthansa	LH
D56	Saudi Arabia	SAR	Riyadh	Saudi Arabia Airlines	SV
D57	Turkey	EURO	Istanbul	Turkish Airlines	TK
D58	Thailand	USD	Bangkok	Thai Airways	TG
D59	Brazil	USD	Sao Paulo, Rio De Janeiro	Emirates	EK

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI**

**CONTROLS AND INSTRUMENTATION / FB
QUALITY ASSURANCE**

**STANDARD PACKING PROCEDURE
FOR
ELECTRICAL AND ELECTRONIC PANELS
(INCLUDING BOXES, CABINETS, CUBICLES, SYSTEMS AND CHASSIS)**

Rev	Date	Prepared	Checked	Approved	Revision History
00	01.01.96	Sd/-	Sd/-	Sd/-	Initial History
01	28.03.02	A.J.OMPRAKASH Sd/-	R.VARADARAJAN Sd/-	G.MATHIYALAGAN Sd/-	Department name changed
02	26.02.07	RM.VAIRAVAN <i>[Signature]</i>	N.SRIDHAR <i>[Signature]</i>	S.SOMASUNDARAM <i>[Signature]</i>	Revised after discussion with Shipping Dept.

1.0 SCOPE

- 1.1 This procedure gives minimum guidelines to be complied with for packing of Electrical, Electronics and Instrumentation panels. This packing shall be suitable for different handling operations and for the adverse conditions during transportation and during indoor / outdoor storage for periods more than one year.

2.0 WOOD SPECIFICATION FOR PACKING

- 2.1 Rubber wood as per manufacturer standard.
2.2 Silver Oak as per procedure PR: CHEM:017 or as per relevant International Standards.

3.0 PACKING

- 3.1 For Inland packing, rubber wood and export packing Silver Oak wood shall be used. The wood used shall be seasoned and treated. It shall be free from knots, etc. and any kind of decay caused by insects and fungus.
- 3.2 The required wood case for the equipment to be packed shall be made out of individual planks of single length and no joint is permissible. Using such planks, the required wood case for the panel shall be made,
- 3.3 Sufficient number horizontal, vertical and diagonal planks (dimension depending upon case size) shall be used for binding and strengthening. Runners have to be provided with metallic sling plates for handling.
- 3.4 Support planks are to be provided such that, no force is acting on the parts of equipment or its parts.
- 3.5 Panels above 1.5 metre shall be bolted at the bottom.
- 3.6 The equipments covered with a polythene sheet shall be kept inside the box, followed by coir, wooden bottoms, thermo coal, etc to prevent vibration effect during loading, transportation, etc.
- 3.7 The gap between job and the box shall be filled with suitable material like jute, coir, thermo coal, etc.
- 3.8 On all sides of the inner case, black polythene sheet shall be nailed.
- 3.9 Loose items of the equipment, if any, shall be packed separately.
- 3.10 Delicate components likely to be damaged, example PCB – Electronic modules, instrument, etc are to be covered individually in anti-static bags and packed in cartons and filled with fillers like thermo coal, paper cuttings, etc.
- 3.11 Such cartons shall be packed with overall polythene rapping and packed in wooden cases. Mark prominently as "ELECTRONIC COMPONENTS".
- 3.12 Each case must have sufficient quantity of silica gel, packed in cotton cloth bags, shall be kept at different places as required.
The bags used shall have the following information marked on it.

Silica Gel activator type:

Blue: Active

Rose: Reduced active

White: No activity. To be replaced with fresh Silica gel.

4.0 MARKING

- 4.1 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"

5.0 PACKING SLIP

- 5.1 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 out side the box and covered with a metallic plate to the case.

6.0 CAUTION

Do not pack any other Mechanical items with this case.

7.0 GENERAL

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

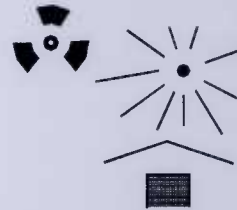
ANNEXURE - 1

TO

PROCEDURE NO:CI:QAC:PR:02/00 ; PR:03/00 ; PR:04/00



FRAGILE, HANDLE WITH CARE



PROTECT FROM HEAT AND RADIOACTIVE SOURCES



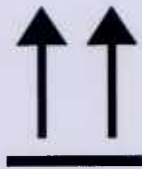
USE NO HOOKS

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



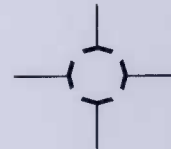
KEEP DRY

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.



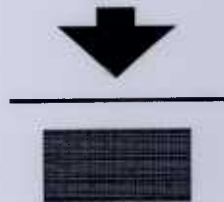
CENTRE OF GRAVITY

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

ANNEXURE - D (FOR IMPORT VENDORS)

VENDOR SHALL SUBMIT UNPRICED BID IN THIS FORMAT ALONG WITH TECHNO-COMMERCIAL OFFER with duly signed, stamped. IF NOT, THEIR OFFER IS LIABLE FOR REJECTION

PRICE BID FORMAT

ENQUIRY NO.: 1701600943	ENQUIRY DATE: 11.07.2016	PROJECT: SURATGARH 660MW - 7,8 (1718, 1719)
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Main Items							
ENQ. SL. NO.	MATERIAL CODE	MATERIAL DESCRIPTION	QTY	UNIT	BASIC UNIT PRICE INCLUSIVE OF PACKING & FORWARDING	TOTAL PRICE (UNIT PRICE x QTY.)	OTHER COST IF ANY IN %
10	L171819759602001	CAMERA AND THERMOGRAPHIC ANALYSIS SYSTEM	2	Set			
	OTHER CHARGES	DESCRIPTION	Lumpsum charges for Boiler - 7		Lumpsum charges for Boiler - 8	Total charges for both boilers	Other charges like Testing etc.
	Erection and Commissioning support Charges	Lump sum charges of Erection and Commissioning support with exact Man days for the system with applicable extra Taxes (Service Tax) and Duties etc. (Including To & Pro Air charges, Boarding & Loading)				Total Man Days required/boiler	

Weight of the components		Component Net Weight (Approx.)	
		Component weight with packing (Approx.)	

Mandatory Spare							
ENQ. SL. NO.	MATERIAL CODE	MATERIAL DESCRIPTION	QTY	UNIT	BASIC UNIT PRICE INCLUSIVE OF PACKING & FORWARDING	TOTAL PRICE (UNIT PRICE x QTY.)	OTHER COST IF ANY IN %
20	R61068500048	FLAME CAMERA	2	No			
30	R61068500049	Applicable Electronic Modules	2	Set			
40	R61999900560	Monitor	2	No			
50	R61999900561	Multiplexer	2	No			

Weight of the components		Component Net Weight (Approx.)	
		Component weight with packing (Approx.)	

SIGN AND SEAL OF AUTHORIZED PERSON

ANNEXURE - D (FOR INDIGENOUS VENDORS)

VENDOR SHALL SUBMIT UNPRICED BID IN THIS FORMAT ALONG WITH TECHNO-COMMERCIAL OFFER with duly signed, stamped. IF NOT, THEIR OFFER IS LIABLE FOR REJECTION

PRICE BID FORMAT

ENQUIRY NO.: 1701600943		ENQUIRY DATE: 11.07.2016		PROJECT: SURATGARH 660MW - 7,8 (1718, 1719)						
Main Items (FOR/Suratgarh - 7,8 project basis)										
ENQ. SL. NO.	MATERIAL CODE	MATERIAL DESCRIPTION	QTY	UNIT	BASIC UNIT PRICE INCLUSIVE OF PACKING & FORWARDING	TOTAL PRICE (UNIT PRICE x QTY.)	EXCISE DUTY IN %	SALES TAX IN %		OTHER COST IF ANY IN %
								VAT %	CST WITH C FORM %	CST WITHOUT C FORM %
10	L171819759602001	CAMERA AND THERMOGRAPHIC ANALYSIS SYSTEM	2	Set						
OTHER CHARGES		DESCRIPTION	Lumpsum charges for Boiler - 7		Lumpsum charges for Boiler - 8	Total charges for both boilers	Total Man Days required/boiler	SERVICE TAX IN %		
Erection and Commissioning support Charges		Lump sum charges of Erection and Commissioning support with exact Man days for the system with applicable extra Taxes (Service Tax) and Duties etc.								
Freight charges in Rs.		To be quoted as extra and not inclusive in the basic price								
Insurance charges in Rs.		To be quoted as extra and not inclusive in the basic price								
Mandatory Spares (FOR/BHEL/Trichy basis)										
ENQ. SL. NO.	MATERIAL CODE	MATERIAL DESCRIPTION	QTY	UNIT	BASIC UNIT PRICE INCLUSIVE OF PACKING & FORWARDING	TOTAL PRICE (UNIT PRICE x QTY.)	EXCISE DUTY IN %	SALES TAX IN %		OTHER COST IF ANY IN %
								VAT %	CST WITH C FORM %	CST WITHOUT C FORM %
20	R61068500048	FLAME CAMERA	2	No						
30	R61068500049	Applicable Electronic Modules	2	Set						
40	R61999900560	Monitor	2	No						
50	R61999900561	Multiplexer	2	No						
Freight charges in Rs.		To be quoted as extra and not inclusive in the basic price								
Insurance charges in Rs.		To be quoted as extra and not inclusive in the basic price								

SIGN AND SEAL OF AUTHORIZED PERSON