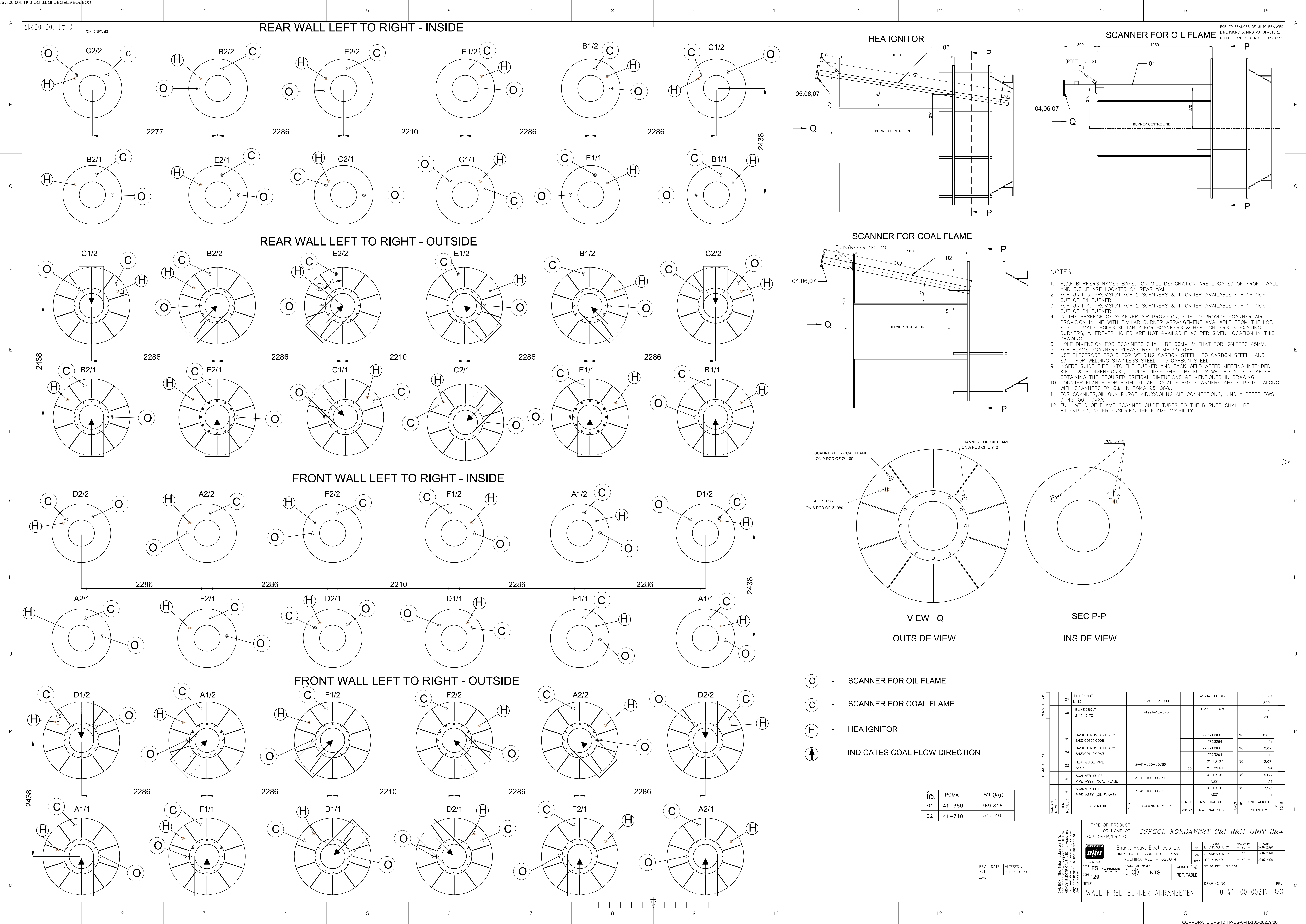




BHARAT HEAVY ELECTRICALS LIMITED,
THIRUCHIRAPALLI-620 014

CONTROLS & INSTRUMENTATION/FB

Specification Number: TCI:340

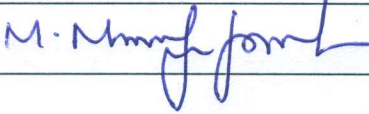
Rev. 00



Technical specification for

Remote type
UV & IR FLAME SCANNER SYSTEM for
Wall Burner

Revision history

Rev No.	Date	Description	Prepared	Reviewed	Approved
00	19-05-2020	Initial Release	M. MURUGA PRABU		ASWINI KUMAR PANDA
					

Sl. No.	Technical requirements	
1.	Site Conditions	Ambient Temperature : 4° C to 55° C Relative humidity : 5 % to 100 % Atmosphere : Dusty, Salty, Corrosive & Heavily polluted.
2.	Project Details & Scope of Work	KORBA WEST R&M project - Units 3 & 4. Supply of Remote type, Flame Scanner System to the existing boilers (old boilers). As part of Boiler R&M work, Scanners are to be installed and commissioned in the boilers. Scope of work includes Supply, Commissioning, Completion of Site Acceptance Test for the Flame Scanner System.
3.	Burner Type	Wall Fired Burner firing both Oil and Pulverised Coal. Burners are arranged in front wall and rear wall. Balanced draft (Negative pressure) furnace. Burner Configuration attached.
4.	Fuels fired	LFO/HFO and Pulverised Coal (LFO + Coal or HFO + Coal).
5.	Flame Scanner Assembly	• 1 no. of Infra-Red (IR) flame scanner assembly for sensing Coal Flame and 1 no. of Infra-red (IR)/Ultra Violet (UV) flame scanner for sensing Oil Flame shall be provided for each burner. The offered scanners shall be able to provide proper discrimination between coal and oil flame. • The flame scanners shall be of Line of Sight (LOS) type and made of semiconductor. • The Scanner assembly shall be provided with swivel mounting with flange arrangement. Vendor to supply the counter flange for swivel mounting and the same shall get welded on to the sighting tube, available in the burner. • Suitable Heat barriers shall be provided. • Cooling air and Purge air accessories shall be provided. (Flexible hose of minimum 2 metres length suitable to connect one end to the Flame Scanner Head Assembly and the other end with ½" NPT (F) for Customer's side termination).
6.	Remote Flame Processing Unit	1 no. of Remote flame processing unit for each burner, for processing the signals from both the flame scanners of the respective burner, shall be provided with following features.

Sl. No.	Technical requirements	
		a. Output signals wired in separate terminal blocks: - • “Flame on”, Independent Potential free contacts for each Flame scanner assemblies. • “Scanner fault”, Potential free contacts. • “Flame intensity”, 4-20 mA DC, Analog Current, isolated signal output. Independent for each Flame scanner assemblies. b. Status Indications: - • Power supply on, Flame On, Scanner fault etc. c. Self-checking feature to ensure the healthiness of the system. d. Remote connectivity feature (MODBUS or equivalent) from Flame Scanner system to plant DCS for Monitoring parameters.
7.	Scanner Tuning	The scanner should have provision for adjusting the Set points for Gain, pull in/Pull Out values of intensity, Flicker Frequency etc. as per the firing conditions to establish the following features, • For stable picking of the flame at various firing conditions. • Flame Scanner shall detect only the target flame of the respective fuel being fired in the burner to which it is assigned and shall not respond ➤ to the background flame of other fuel from the same burner. ➤ to the flame from the adjacent burners. ➤ to the flame from the opposite wall burners or any other radiation generated in the furnace. • Flame scanner shall provide Safe Discrimination of the Coal flame and Oil Flame at all firing conditions.
8.	Enclosure protection	• Flame Scanner Assembly (Electronics) → Protection Class: IP 65. • Control Panel → Protection Class: IP 32.
9.	Field Junction Box	a) 1 no. of Field junction box per burner shall be provided (common to both flame scanners) for interconnection of cables between flame scanner assemblies and remote flame processing units.

Sl. No.	Technical requirements	
		b) Control terminal blocks (with 20% spare TBs) for the termination of the contacts and signals. c) Weather proof, Double compression type, Brass with Nickel plated cable glands and suitable crimping lugs for the termination of all incoming & outgoing cables of control panel. d) Suitable ferruling shall be followed for all wiring for easy identification.
10.	Control Panel electrical wiring requirements	a) Vendor shall supply a Control Panel with all the Flame Processing Units mounted inside. This Panel will be located in the Control Equipment Room (CER). b) 1 no. of power supply feeder will be provided to the control panel. Power supply details: 240 V AC, UPS $\pm 10\%$ variation, 50 Hz $\pm 5\%$ variation. Vendor to take care of necessary power supply units for further derivation of the required voltage levels and distribution to each flame scanners through individual power protection units - MCBs. Vendor to provide redundant power supply units to ensure availability of the flame scanners. If multiple panels are provided, vendor to take care of the power distribution among different panels. c) Power terminal blocks with (20% spare TBs) for the termination of incoming power supply feeder and also for distribution of power supplies. d) Control terminal blocks (with 20% spare TBs) for the termination of the contacts and signals. e) Weather proof, Double compression type, Brass with Nickel plated cable glands and suitable crimping lugs for the termination of all incoming & outgoing cables of control panel. f) Suitable ferruling shall be followed for all wiring for easy identification.
11.	Panel Construction	a) The control panel shall be of free standing type, constructed using CRCA Grade - D steel sheet, with minimum 2 mm thickness for steel plate frame & door, 1.6 mm thickness for sides and 3mm thickness for Mounting plate & removable

Sl. No.	Technical requirements	
		type cable gland plate. The preferred height of the cabinet is 2200 mm. Necessary stiffeners / supports shall be provided to avoid bowing and bending. The panel shall be mounted on anti-vibration pad of 15 mm thick on a ISMC channel/plinth of 100 mm height. Canopy shall be provided on the top to prevent ingress of dripping of water. b) If width of a cabinet is more than 600 mm, double doors shall be provided. Door latches shall be of three-point type to assure tight closing. c) Detachable lifting eyes or angles shall be furnished at the top of the cabinet and necessary provisions shall be made to facilitate handling without damage. d) Paint Shade: Front & Rear-RAL 9002; side- RAL 5012. Interior – RAL 9002. Painting shall be of powder coating with thickness of 65-75 microns. e) The panel shall be provided with a copper ground bus for electrical earthing and separate shield bus for electronic earthing (Shielding), shall be provided mounted on insulated bush. Two SS earthing bolts shall be provided on the panel back side, connected to electrical earth of the panel. f) Wire duct of adequate size shall be provided for better layout and easy maintenance. Grouping and termination of power and control wiring inside the panel shall be done neatly. g) Adequate working space shall be provided inside the control panel. Accordingly, the number of panels shall be decided by the vendor. h) Cooling fans/ventilation blowers shall be provided inside the panel for cooling purpose. An alarm for “Blower failure” shall be provided in the panel. i) Vendor to provide door operated illumination facility and power sockets inside the panel.
12.	Interconnecting cable between flame	Vendor to note the cable run length distance between the flame scanner assembly (field) and the flame processing unit (CER) and

Sl. No.	Technical requirements	
	scanner assembly and Remote Flame Processing Unit.	shall offer suitable interconnecting cables. Interconnecting cables shall be of Stranded, Annealed, Tinned Copper Conductor, HRPVC insulated, Unarmoured, FRLS PVC Outer sheathed type. <u>FRLS Properties for Outer Sheath of cable: -</u> a. Oxygen Index: - Minimum 29 at Room Temperature as per ASTM-D-2863. b. Temperature Index: - Minimum 250° C at Oxygen Index of 21 as per ASTM-D-2863. c. Smoke Density Rating: - Maximum 60 % as per ASTM-D-2843. d. Acid Gas Generation: - Maximum 20 % by weight as per IEC-754. e. Flammability Characteristics: - Shall pass IEEE-383, IEC-332-3, SS-4241475, Clause F3. Vendor to submit the type test certificate for the above tests, during the time of drawing approval.
13.	Requirements of Standards	• The flame scanner system shall conform to NFPA recommendations. • The system shall be compatible for EMC/EMI requirements. (Electro-magnetic Interference/Compatibility).
14.	Flame Scanner Test kit	IR and UV Flame Scanner Test kits shall be provided for testing and calibrating the scanner assemblies at site.
15.	Proveness track Record	The offered flame scanner system should be of a proven design and shall be successfully commissioned & working in a boiler with similar burner configuration for a period of minimum 2 years as on the date of techno-commercial bid opening.
16.	Inspection & testing	a. Vendor shall submit a Quality Plan covering the various tests conducted from Initial stage to finished product (for all the items as per BOM). QP shall contain Functional tests and verification of BOM by BHEL/customer. b. Inspections will be carried out as per BHEL approved VQP.

Sl. No.	Technical requirements	
17.	Commissioning	a. Vendor to take care of Erection supervision of the flame scanner with necessary inputs. b. The Commissioning of the flame scanner system lies with the scope of the vendor. Vendor to take care of necessary tools & tackles required for the commissioning of the system. During commissioning, vendor to check all the points as indicated in Annexure C (Site acceptance Test procedure) and demonstrate to the end user. On successful commissioning of the system, vendor to submit a commissioning protocol signed between vendor & BHEL site. c. Considering the above points, Vendor shall submit a lump sum commissioning charges separately, considering a stay of 40 days (20 days for each boiler), maximum. Vendor shall indicate per diem rate for extended stay of commissioning.
18.	Packing	a. The flame scanner assembly and accessories shall be wrapped individually in bubbled polythene sheet, packed in a moulded thermocole boxes, kept in wooden boxes, filled tightly with thermocole beads and further packed suitably with water proof covers inside wooden box for safe transport, safe delivery at site and to avoid damage during storage. b. The control panel shall be packed as per the packing procedure QA:CI:STD:PR:02 / Rev. 03
19.	Documents to be furnished by vendor along with the offer	a. Vendor to submit the Sub-Delivery Enquiry Deviation format, conforming to the requirements of the Technical specification, Annexure-A, Input drawings in full. In the format, Vendor to indicate the references of the Technical specification, Annexure-A, input drawings (Burner, sighting tube and flame scanner arrangements) quality plan and shall indicate indicating "No Deviation" <i>In case of any Deviation, to the requirements of the specification, the same shall be clearly indicated only in the Sub-Delivery Enquiry Deviation format. Hidden deviations indicated elsewhere in the offer will not be evaluated and the</i>

Sl. No.	Technical requirements	
		<i>same will be ignored.</i> b. Vendor to submit the signed copy of the reference list for the offered flame scanner model/Proven Track Record. c. Vendor to submit the Datasheet & Catalogues of Flame Scanner & Processing units. d. Filled in Annexure-B.
20.	Documents to be submitted after placement of Purchase Order	a. Vendor to submit the Datasheet & Catalogues of Flame Scanner & Processing units, GA drawing of the Flame Scanner Assembly, Control Panel with Flame Processing Units, Power Supply Distribution drawing, Flame Scanner System Field Interconnection drawing. b. O&M instruction manuals in DVD format in addition to 1 sets of hard copy shall be forwarded to BHEL site along with supply. c. 1 set of DVD format shall be forwarded to BHEL.

Annexure-A
BOM (Scope of supply)

Major items are listed below. Vendor to take care of all accessories as per the specification and shall submit the BOM.

Sl. No.	System Description	Quantity/Boiler
1.	Flame scanner assembly for coal flame (IR)	Total: 24 sets (1 set for each burner.)
2.	Flame Scanner assembly for Oil Flame (IR/UV)	Total: 24 sets (1 set for each burner.)
3.	Remote Flame processing units	Total: 24 sets (1 set for each burner, common to both the scanners)
4.	Field Junction Box	Total: 24 sets (1 set for each burner, common to both the scanners)
5.	Interconnecting Cables between Remote Flame Processing Unit and the Flame Scanner assembly.	Total: 2 runs from a burner to a Flame Processing unit. Total: 48 runs Cable run length for each run : 210 metres.
6.	Remote Control Panel with power supply distribution units	Quantity - As required
7.	Mounting Flange with Swivel arrangement & Other accessories.	Total: 48 sets (1 set for each flame scanner assembly)
8.	Cooling/Purge air accessories	Total: 48 sets (1 set for each flame scanner assembly)
9.	Heat insulator & Accessories	Total: 48 sets (1 set for each flame scanner assembly)
10.	Any other items if required, to make the system complete in all aspects shall be indicated by vendor in the offer.	To be included in the offer.
11.	Flame Scanner Test Kit	1 set

The items indicated are per boiler quantity. Same shall be considered for second boiler.

Annexure-B**Vendor to furnish the details of the following along with the offer: -**

Sl. No.	Description	Details
a.	Flame Scanner Assembly for Coal Flame:-	
b.	Sensor Type & Material.	
c.	Maximum temperature withstanding capability of flame Scanner assembly.	
d.	Material of construction of components of flame Scanner assembly.	
e.	Cooling Air and Purge Air Required for flame scanner.	
f.	Flame Scanner Assembly for Oil Flame:-	
g.	Sensor Type & Material.	
h.	Maximum temperature withstanding capability of flame Scanner assembly.	
i.	Material of construction of components of flame Scanner assembly.	
j.	Cooling Air and Purge Air Required for flame scanner.	
k.	General	
l.	The overall dimensions & space requirement for the control panel	
m.	Power rating (VA) of the total system.	
n.	Cycle time of Self-checking shall be indicated.	
o.	Electrical & Electronic Earthing (Shielding) requirement for the Panel, Field JB and Scanner Assembly/related Drawing.	

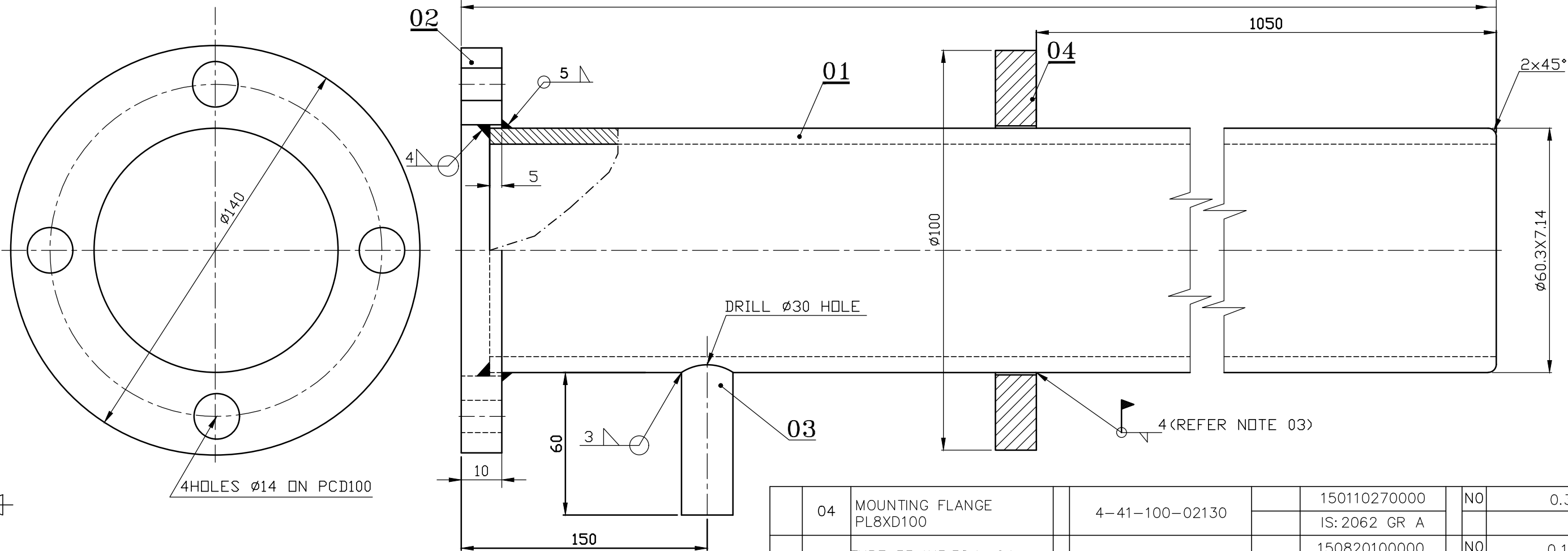
Annexure-C

The following minimum checks are to be conducted and demonstrated at site by the vendor during commissioning (in addition to standard procedure adopted by OEM): -

Sl. No.	Description	Details
1	In Each burner, the following checks are to be demonstrated for Coal and Oil Flame Scanners,	
	A. <u>When any one of the fuels is taken for service.</u> ➤ Positive Flame Detection during presence of the respective fuel in service during Steady state condition. ➤ Positive Non-detection of flame, during presence of other fuel in service during Steady state condition.	
	B. <u>When any one of the fuel is already in service and during the process of introduction or removal of the second fuel into the same burner</u> ➤ Positive Flame Detection, after introduction of respective fuel (in presence of other fuel flame). ➤ Positive Non-detection of flame, before introduction & after removal of the respective fuel in service (in presence of other fuel flame) during Transient state.	
	➤ In both firing conditions A and B, Flame scanner should be adjusted to have Positive discrimination of the target flame output from the flame of the adjacent burner and also from the flame of the opposite wall burners. ➤ Adjustment and setting of appropriate Gain and Threshold (Pull in/pull out) values for Flame Intensity signals at various load conditions. ➤ Verification of Output signals such as “Flame on”, Flame Intensity 4-20 mA & Fault contact from the System.	
2	Verification of Remote connectivity with DCS and monitoring the signal interface between DCS and Flame Scanner System.	
3	Simulation of faults and Verification of Status/Fault annunciation signals at Remote Flame Processing Units of various burners.	
4	Verification of power supply redundancy in Remote Control panel.	

3-41-100-00850
DRAWING NO:

ALL DIMENSIONS ARE IN MILLIMETERS



GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS AND TOLERANCES UNLESS OTHERWISE SPECIFIED:
 - TOLERANCE ON LINEAR DIMENSIONS: ± 1
 - TOLERANCE ON ANGULAR DIMENSIONS: $\pm 1^\circ$
- USE ELECTRODE E7018 FOR WELDING CARBON STEEL TO CARBON STEEL WELDING
- TACK WELD AT SHOP AND FINAL WELD AT SITE AFTER ADJUST "L" DIMENSION AFTER PROPER INSTALLATION OF SCANNER.
- SHOP PAINT PER APPLICABLE PAINTING SCHEDULE.
- COUNTER FLANGE IS WITH FLAME SCANNER.

REFERENCE DRAWINGS:

- 0-41-100-00219 - WALL FIRED BURNER ARRANGEMENT

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C	UNIT WEIGHT	QTY
					VAR NO	MATERIAL SPECN		QUANTITY	
	04	MOUNTING FLANGE PL8XD100		4-41-100-02130		150110270000	NO	0.316	1
						IS: 2062 GR A			
	03	TUBE 33.4X3.38;L=64				150820100000	NO	0.160	1
						SA106 GRB			
	02	END FLANGE PL10XD140		4-41-100-02133		152110980000	NO	0.915	1
						IS2062E250GRA			
	01	TUBE 60.3 X 7.14 X 1345L				150826150000	NO	12.589	1
						ASTMA106GRB			

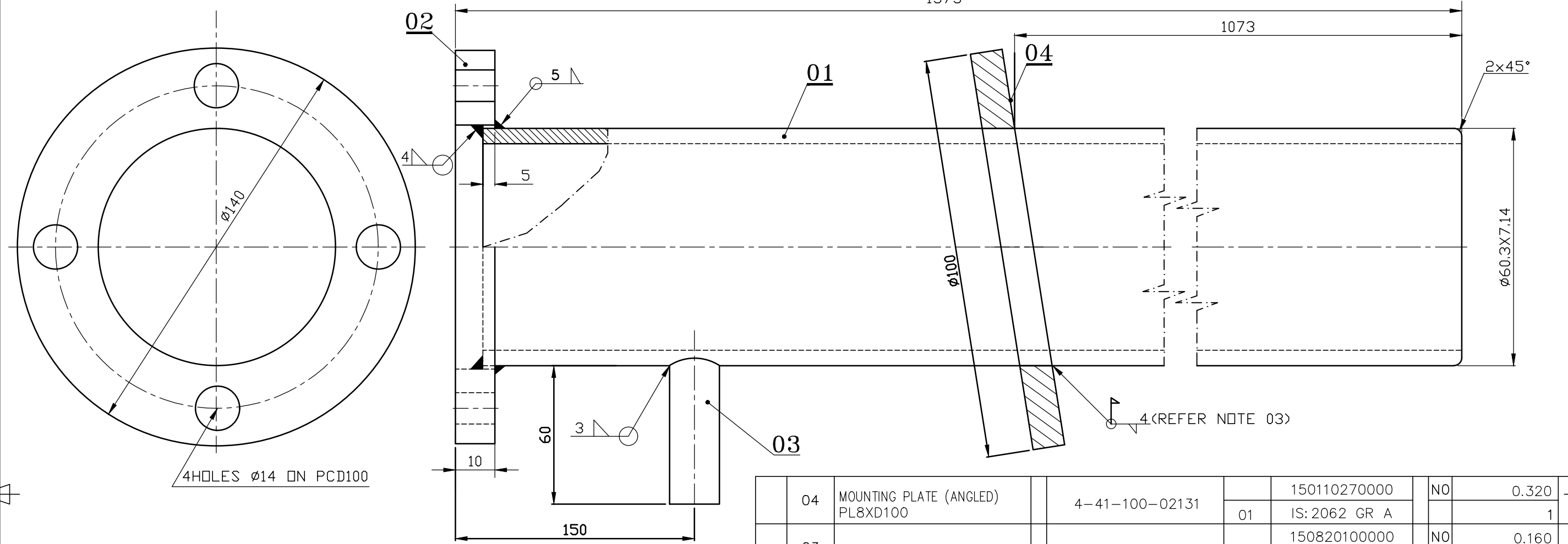
CUST NO : 4228-4229

REV	DATE	ALTERED :
01		CHECKED :
ZONE		

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT								
		CSPGCL KORBAWEST C&I R&M UNIT 3&4								
		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014				DRN	NAME B CHOWDHURY	SIGNATURE - sd -	DATE 07.07.2020	NO. OF VAR
		CHD	SHANKAR NAIK	- sd -	07.07.2020					
		APPD	GS KUMAR	- sd -	07.07.2020					
DEPT FS	GRADE OF UNTOL. DIM C/M/F	SCALE NTS	WEIGHT (Kg) 13.980	REF TO ASSY / OLD DWG			ITEM NO	No OF ITEMS		
CODE 129										
TITLE SCANNER GUIDE PIPE ASSY (OIL FLAME)				CARD CODE U 01	DRAWING NO : 3-41-100-00850				REV 00	

3-41-100-00851
DRAWING NO:

ALL DIMENSIONS ARE IN MILLIMETERS



GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS AND TOLERANCES UNLESS OTHERWISE SPECIFIED:
 - TOLERANCE ON LINEAR DIMENSIONS: ± 1
 - TOLERANCE ON ANGULAR DIMENSIONS: $\pm 1^\circ$
- USE ELECTRODE E7018 FOR WELDING CARBON STEEL TO CARBON STEEL WELDING
- TACK WELD AT SHOP AND FINAL WELD AT SITE AFTER ADJUST "L" DIMENSION AFTER PROPER INSTALLATION OF SCANNER.
- SHOP PAINT PER APPLICABLE PAINTING SCHEDULE.
- COUNTER FLANGE IS WITH FLAME SCANNER.

REFERENCE DRAWINGS:

- 0-41-100-00219 - WALL FIRED BURNER ARRANGEMENT

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C	UNIT WEIGHT	QTY
					VAR NO	MATERIAL SPECN		QUANTITY	
04	MOUNTING PLATE (ANGLED) PL8XD100	4-41-100-02131			01	150110270000 IS: 2062 GR A	NO	0.320	1
						150820100000 SA106 GRB	NO	0.160	1
03	TUBE 33.4X3.38; L=64					152110980000 IS2062E250GRA	NO	0.915	1
						150826150000 ASTMA106GRB	NO	12.804	1

CUST NO : 4228-4229

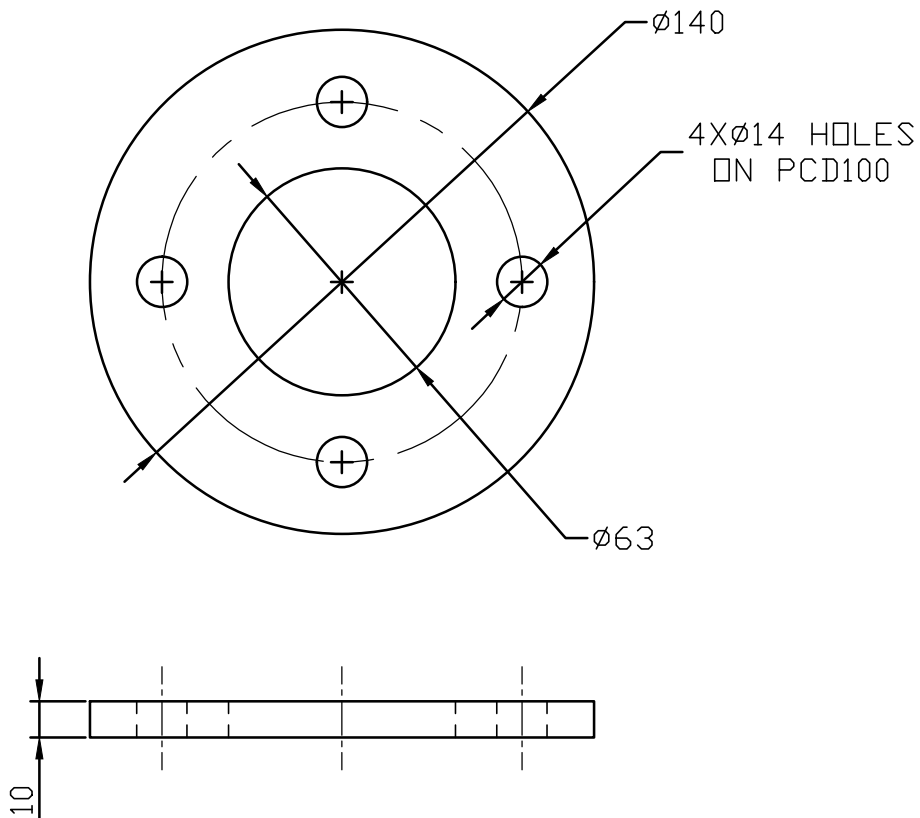
REV	DATE	ALTERED :
01		CHECKED :
ZONE		

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
		CSPGCL KORBAWEST C&I R&M UNIT 3&4									
		DEPT FS		GRADE OF UNTOL. DIM C/M/F		SCALE NTS		WEIGHT (Kg) 14.199		REF TO ASSY / OLD DWG	
		CODE 129									
TITLE SCANNER GUIDE PIPE ASSY (COAL FLAME)		CARD CODE U 01		DRAWING NO : 3-41-100-00851						REV 00	

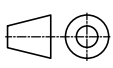
THE INFMN ON THIS DOCUMENT IS THE PROPERTY OF BHEL.
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY
IN ANY WAY DETRIMENTAL TO THE INTEREST OF BHEL

CAUTION:

REV	DATE	ALTERED :
01		CHECKED :



01	PL10xØ140		152110980000		0.915
			IS2062E250GRA		1
VARIANT NUMBER	DESCRIPTION	STD	MATERIAL CODE	A/C	UNIT
			MATERIAL SPECN		QUANTITY

		Bharat Heavy Electricals Ltd		DRN	NAME BIMAL	SIGNATURE -Sd-	DATE 18.09.19	NO. OF VAR	
UNIT: HIGH PRESSURE BOILER PLANT		CHD	VS NAIK		-Sd-	18.09.19			
TIRUCHIRAPALLI - 620014		APPD	GS KUMAR		-Sd-	18.09.19			
DEPT FS	GRADE OF UNTOL. DIM C/M/F		SCALE NTS	WEIGHT (Kg) REF. BOM	REF TO ASSY / OLD DWG			ITEM NO	No OF ITEMS
CODE 129									
TITLE END FLANGE				CARD CODE U 01	DRAWING NO : 4-41-100-02133			REV 00	

ANNEXURE - A

TECHNO - COMMERCIAL TERMS AND CONDITIONS

Description of the Material:		UV & IR FLAME SCANNER SYSTEM
BHEL Tender No. & Date		
GENERAL INFORMATION		
QUOTATIONS: Interested bidders / Suppliers shall submit their offer through e-Procurement mode at https://bhel.abcprocure.com Offers in any other mode will not be accepted. For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps. In case of any assistance, please contact for support in this link: https://bhel.abcprocure.com/EPROC/contactus The bidder has to keep track of any changes by viewing the addendum / Corrigendum's Issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.		
Sl. No.	Terms and conditions	Vendor's confirmation
1	This requirement is for supply of Remote type UV & IR FLAME SCANNER SYSTEM for Korba west R&M 3&4 (4228,4229) projects . Technical Offer: The Offer shall be as per following technical documents attached in the Enquiry. 1) Specification: TCI : 340, Rev. 00 2) Scanner Guide Pipe Drawings & Flame Scanner Arrangement 3) Quality Plan: Vendor Quality plan (VQP) subject BHEL /customer approval Deviations, if any, may be indicated in the sub-delivery enquiry deviation format attached with the enquiry.	Accepted
2	Firm Price: The quoted / finalised rates shall be Firm till execution of the supplies. Vendor has to quote price according to the requirement as detailed in the attached technical documents. Unless there is a change in technical specification from BHEL side, impact price will not be allowed. ➤ BHEL will finalize the rates through price bid opening. Hence, Tenderers are requested to give their best prices at the first instant itself. ➤ In the event of the final L1 prices are not reasonable/ acceptable to BHEL; BHEL also may resort to short closure of this Tender. ➤ In case of more than one L1 bidders, BHEL will get fresh revised reduced price bids from all such L1 bidders & ranking will be decided based on these revised bids. The new rates quoted should be lower than their previous L1 rates. If L1 could not be decided by this process, ranking will be decided by draw of lots in the presence of all such L1 bidders Any pre-bid query, kindly contact: Mr. Bimal Kanta Sethi, Manager/Materials Management /BOI Tel: 0431-2574175, email: bksethi@bhel.in ; Mr. G. Murugesan, Sr. Engineer/Materials Management/BOI Tel: 0431-2577072, email: gmuru@bhel.in ; Mr. L Puvanendran , Dy Engineer /Management/BOI, email: puvan@bhel.in Tel: 0431-2577928 and get your queries cleared before submitting the offer in EPS. Rates/ other price elements once quoted in the Enterprise Procurement System (EPS) cannot be changed after due date shall remain final.	Accepted
3(a)	Both main and Mandatory spares requirement will be considered as a single package for ranking and ordering. L1 finalisation will be done based on total cost to BHEL on single package basis including lump sum commissioning charges, after loading against deviation.	Accepted
3(b)	Offers not meeting the PQR will not be considered further for evaluation. Customer approved as well as Part 1 qualified vendor offers will only be considered for Part-2 (Price bid) opening.	Accepted
4	Delivery term: FOR / PROJECT SITE basis for main & spares items; The quoted Rate shall be inclusive of Packing, Forwarding and Freight. (Ex-Works, Freight to pay basis is not acceptable to BHEL.) Insurance will be on BHEL scope.	Accepted
5	Indigenous Vendor Payment terms (Non-MSE): For Main items: 90% direct payment after 60 days from the date of dispatch against site acknowledgement & balance 10% after successful commissioning of system at site. MOM made with BHEL site / customer after successful commissioning will be required to process the balance 10 % payment. For Spare items: 100% direct payment after 60 days from the date of dispatch against site acknowledgement.	Accepted / Not Accepted

6	Deviation in Payment Terms: Any deviation in the above Payment Terms, any other conditions in payment terms or any other payment term will not be accepted and offers are liable to be commercially rejected.	Noted									
7	Liquidated damages (LD) for staggered delivery Schedule: 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 unconditional LD at the rate of 0.5% of the pending PO value per week of the delay or part thereof subject to a maximum of 10% of the total order value	Accepted / Not Accepted									
8	Loading Criteria LD / Penalty: Any deviation on BHEL LD / Penalty clause, loading (Basic material Value) will be applied to the extent to which it is not agreed by the bidder. LD is for Total Order Value and not for undelivered goods. If LD for undelivered portion is only acceptable then a loading of 10% on Basic Material Value will be applied.	Noted									
9	Guarantee / warranty: vendor shall provide Guarantee / warranty for a period of 12 months from the date of commissioning.	Accepted / Not Accepted									
10	Deviation in Guarantee /Warranty Period: No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period. Their offer will be rejected.	Noted									
11	Delivery Period: BHEL standard delivery is <u>Eight weeks from date of document approval.</u> Vendor quoted delivery period shall include all activities i.e. manufacturing / production, Inspection, Packing, Forwarding and dispatch.	Accepted / Not Accepted									
12	Validity: 120 days from techno commercial bid opening date	Accepted / Not Accepted									
13	Deviation in Validity: Non-compliance of the same will result in offer being liable for rejection.	Noted									
14	Commissioning: As per specification clause 17, commissioning of the system at project site is in vendor scope. vendor to quote lump sum charges for commissioning of system at site in EPS- PRICE BID. Note: As per site requirement, vendor to make site visit to respective project sites & after successful commissioning, vendor shall make MOM with BHEL site / customer. MOM copy is required for further processing of commissioning invoice for payment.	Accepted									
15	Staggered Delivery: This is the requirement for Korba west R&M 3 and 4 projects, having different delivery schedule, hence vendor to supply the flame scanner system in staggered delivery; tentative delivery schedule is given below <table border="1"> <thead> <tr> <th>Project</th><th>Customer number</th><th>Delivery schedule</th></tr> </thead> <tbody> <tr> <td>Korba west -3</td><td>R5/4228</td><td>JAN'2021</td></tr> <tr> <td>Korba west -4</td><td>R5/4229</td><td>MAR'2021</td></tr> </tbody> </table>	Project	Customer number	Delivery schedule	Korba west -3	R5/4228	JAN'2021	Korba west -4	R5/4229	MAR'2021	Accepted
Project	Customer number	Delivery schedule									
Korba west -3	R5/4228	JAN'2021									
Korba west -4	R5/4229	MAR'2021									
16	RISK PURCHASE: In case of abnormal delays (beyond the maximum late delivery period as per LD clause) or non-fulfilment of any other terms and conditions given in work order, BHEL may cancel the work order in full or part thereof, and may also make a contract of such work/service from elsewhere / alternative source at the risk and cost of the original contractor. BHEL will take all reasonable steps to complete the contract obligations from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract. Risk & cost clause, in line with conditions of contract may be invoked in any of the following cases: - Contractor's poor progress of the work vis-à-vis execution timeline as stipulated in the contract, backlog attributable to contractor/ supplier including unexecuted portion of work/ supply does not appear to be executable within balance available period (#) considering its performance of execution. - Withdrawal from or abandonment of the work by contractor before completion of the work as per contract. - Non completion of work / Non-supply by the contractor within scheduled completion/delivery period as per contract or as extended from time to time, for the reason attributable to the contractor. - Termination of contract on account of any other reason (s) attributable to contractor.										

	5. Assignment, transfer, subletting of contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL. 6. Non-compliance to any contractual condition or any other default attributable to contractor. Risk and Cost amount against balance work will be calculated as follows: Risk & Cost Amount= [(A-B) + (A x H/100)] Where, A= Value of Balance scope of Work/ Supply (*) as per rates of new contract B= Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any. H = Overhead Factor to be taken as 5 In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero). *(Balance scope of work/ supply) Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work/ Supply for calculating risk & cost amount. Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities. Items for which total quantities to be executed have exceeded the Contract Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be contract quantities. Substitute/ extra items whose rates have already been approved would form part of contract quantities for this purpose. Substitute/ extra items which have been executed but rates have not been approved, would also form part of contract quantities for this purpose and rates of such items shall be determined in line with contractual provisions. However, increase in quantities on account of additional scope in new tender shall not be considered for this purpose. NOTE: In case portion of work is being withdrawn, contract quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work/supply' for calculating Risk & Cost amount.	Accepted
17	GST DETAILS, BHEL TRICHY GST No. 33AAACB4146P2ZL	Noted
18	Please mention your GSTIN Number	
19	HSN Codes for Quoted Material:	
20	Applicable GST Rate:	
21	Indigenous suppliers: a) Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST. b) 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. c) All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code). d) Invoices will be processed only upon completion of statutory requirement and further subject to following: i. Vendor declaring such invoice in Form GST ANX-1 ii. Receipt of Goods or Services and Tax invoice by BHEL e) As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on despatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2).	Noted

	f) 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. g) 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 h) 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. i) 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. j) Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number. k) GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 - Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor.	
22	Document Submission: Along with the offer: 1. All the technical documents which have been attached along with our enquiry i.e., Specification, Drawings, QP, Packing Procedure, Data Sheet etc., signature to be endorsed on all pages with company seal. 2. Filled-in/signed & sealed Sub-delivery enquiry deviation format. 3. Pre-Qualification Requirement (Mandatory to get qualified for considering the technical Offer) 4. Filled-in/signed Annexure-A, Commercial terms and conditions. (Mandatory for Commercial evaluation) 5. If MSE vendor, please attach UAM registration copy along with CA Certificate / Udyam Registration Certificate	Submitted/ Not Submitted
23	Any deviation on technical/QP/packing requirements shall specifically be indicated in the "sub-delivery enquiry deviation format" attached along with the enquiry. Deviations / clarifications declared elsewhere will not be evaluated. <u>Also, any deviations from the commercial terms and conditions shall be clearly spelt out in this format itself.</u> Deviations / clarifications declared elsewhere will not be evaluated. Deviations taken, if any, by vendor as per our requirement above shall be clearly got accepted by BHEL in writing during enquiry stage itself. In the event of an order no deviations, unless accepted clearly by BHEL in writing during enquiry stage will be entertained and all other techno-commercial requirements will be binding on successful bidder and failure to execute the terms will lead to disciplinary action by BHEL against the said bidder.	Accepted
24(a)	MSE status: Whether vendor belongs to MSE category	Yes / No
24(b)	BENEFITS TO MSE VENDOR: MSE suppliers can avail the intended benefits only if they submit along with the offer, attested/notarized copies of either 1. Valid NSIC certificate or EM II certificate along with CA certificate 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. OR 2. Udyog Aadhaar Memorandum No. & CA Certificate applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status. 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. No benefit shall be applicable for this enquiry, in case of any deficiency in the above required documents or in case the documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the	Noted

	above required documents are to be uploaded on the portal even if submitted earlier. Documents should be notarized or attested by a Gazetted officer. <u>For Package basis (Non-Splitable):</u> i. If L1 vendor is an MSE vendor entire project package will be ordered on L1 vendor. ii. 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. iii. 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. iv. Finally if none of the MSE vendor in the price band is not accepting, it will be ordered on L1 non MSE vendor. <u>For Item wise evaluation (Splitable):</u> 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 25% of the tendered quantity. ➤ 3% reservation for women owned MSEs, within the above mentioned 25% reservation. ➤ 6.25% reservation from MSE owned by SC / ST entrepreneurs, within the above mentioned 25% reservation. In case of more than one such MSE, the supply shall be shared proportionately. 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 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 stipendiary magistrate / Sub divisional Magistrate / Taluka Magistrate / Executive magistrate • Chief Presidency magistrate / Additional chief presidency magistrate/Presidency magistrate. • Revenue Officer not below the rank of Tehsildar. • 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. Payment for MSE indigenous vendors will be as per MSMED Act, 2006.	
24 (c)	Vendors who have registered themselves as MSE, cannot claim the benefits unless they submit the CA Certificate & UAM Registration copy along-with the EPS offer for each tender; failing which vendor shall not claim MSE benefits. As per Gazette Notification no. S.O. 2119(E) dated 26.06.2020 issued by Ministry of MSME regarding change in definition of Micro, Small & Medium Enterprises (MSMEs) applicable w.e.f. 01.07.2020 as follows: • Udyam Registration is a new process of MSME Registration launched by the Ministry of Micro, Small and Medium Enterprises on July 1, 2020. • All existing enterprises registered under EM-Part-II or UAM or any other registration issued by any authority under the Ministry of MSME are required to register again on the Udyam Registration portal (https://udyamregistration.gov.in). Such enterprises are required to apply and obtain Udyam Registration on or after 1st July 2020. • On registration, an enterprise is assigned with a permanent identity number, known as "Udyam Registration Number". An e-certificate, namely, "Udyam Registration Certificate" will be issued on completion of the registration process. • The MSE status of existing enterprises registered prior to 30th June 2020 shall be valid only till 31st March 2021. (i.e.) Udyam Registration Certificate is mandatory for all MSME enterprises from 1st April 2021.	Noted
25	While submitting price bid in the EPS, vendor shall not quote different prices for identical items listed in enquiry (main boilers & spares). In case different prices are quoted for same / identical items/ materials, lowest of the two will be considered for ordering.	Accepted
26	Any pre-bid queries / clarification / document requirement etc. shall be asked within 3-4 days of floating tender in EPS. Tender due date extension will not be given without valid reason. Tender due date extension request has to be given before due date / time along-with a valid reason.	Noted

27	It has been observed that vendor gives confirmation to commercial terms & conditions specified in this Annexure and gives different terms & conditions in the unpriced bid / offer documents, which will not be accepted. Only Annexure-A will be considered	Noted
28	“Sub-Delivery Enquiry Deviation Format” is important document which has to be filled, (signed & sealed) with all the technical reference document detail and attached along with the offer in the EPS. In case of no deviations. Please mention NIL DEVIATION.	Attached / Not Attached
29	All the technical documents, if attached by BHEL along with the enquiry/ RFQ (Specification / Drawing / QP / Datasheet / Packing Procedure etc.) which are part of this e-tender, should bear your conformation / confirmation and sign with seal on each page. The same shall be scanned & attached as PDF files along with the offer for technical evaluation. (In case of Spares, reference PO is mentioned in the tender general notes, then technical documents need not be submitted, however, Deviation format mentioning the reference PO needs to be submitted)	Technical Docs Submitted / Not Submitted
30	Technical / commercial clarification, if any, will be initiated through EPS / email. Vendor to respond to the clarifications within 3 working days. If the vendor fails to respond, even after three reminders, then the vendor will be considered as non-responsive and is liable to be rejected. Please note that EPS generates auto email whenever clarification / tender event is scheduled. Vendor to keep track and respond immediately.	Noted
31	PO Acknowledgement: Within 5 days from the date of receipt of scanned PO copy through email.	Accepted
32	Inspection notice period: Vendor shall raise inspection call to Third Party Inspection Agency / BHEL at least one day , prior to the proposed date of inspection.	Accepted
33	FORCE MAJEURE CLAUSE: If, at any time during the continuance of Contract the performance in whole or in part by either party of any obligations under the Contract shall be prevented or delayed by reason of any War, Hostile acts of the public enemy Civil Commotion, Epidemics, or Acts of God (Floods, Storm/Cyclone, Hurricane, Earth Quake etc.) then provided notice of happening of any such event is given by either party to other within 7 days from the date of occurrence therefor neither party shall by reason of such event be entitled to terminate this Contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under the Contract is prevented or delayed by reason of any such event, claims for extension of time shall be granted for periods considered reasonable by BHEL, subject to prompt notification by the contractor.	Accepted
34	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.	Noted
35	In the event of PO, the reference date for LD calculation will be date of final inspection Agency's signed inspection report / Test certificates for Ex-Works & FOB contracts. The reference date for F.O.R contracts will be Invoice date / Lorry way bill date LR date/ Railway Receipt date, whichever is later.	Accepted
36	Inspection & testing requirements: Inspection and testing requirements are to be carried out as per the specification and BHEL/customer approved QAP and all test certificates are to be submitted in complete set as indicated in our specification /QAP. In case of Vendor QP the same shall be submitted for approval along with the offer.	Noted
37	BHEL reserves the right to cancel / modify the tender, if the need so arises, without assigning any further notice or reason therefore.	Accepted
38	All items are considered as single package. Vendor not quoting any item will lead to offer rejection	Noted
39(a)	Preference to Make in India: “For this procurement, the local content to categorize a supplier as Class I local supplier/ Class II supplier /Non- Local supplier and purchase preference to Class I local supplier, is 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”.	Noted
39(b)	Indigenous vendors to submit Self-certification in Letterhead indicating the percentage of Local content as per given format.	Submitted / Not Submitted

40	Both “MSED Act 2006 & Public Procurement (Preference to Make in India), Order 2017 Amendment dt 04.06.2020” guidelines will be followed for this tender. Vendors will be asked to submit Self-Certification, indicating the percentage of local content with the Part-I Bid. In case of clash between these two guidelines, it is proposed to give preference to “Public Procurement (Preference to Make in India), Order 2017 Amendment dt 04.06.2020”,	Accepted
41	Reverse Auction: BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and the same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking	Accepted / Not Accepted

By signing this Annexure, the vendor consents that the terms & conditions accepted, in this Annexure-A alone, shall be binding between BHEL and the Vendor; and no other terms quoted / mentioned, elsewhere in the Offer / Quotation will be considered / accepted by BHEL.

Certificate by Chartered Accountant on letter head

This is to Certify that M/s
 (hereinafter referred to as 'company') having its registered office at
 is registered under MSMED Act 2006,
 (Entrepreneur Memorandum No (Part—II) dtd:
 Category: (micro/small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006;
 Rs. Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
 Rs. Lacs

(Strike off whichever is not applicable)

The above investment of Rs. Lacs is within permissible limit of Rs. Lacs for Micro / Small **(Strike off which is not applicable)** Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/ Small) **(Strike off which is not applicable)** and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11,2013 by Ministry of MSME.

Date

(Signature)

Name -

Membership number -

Seal of Chartered Accountant

Domain :	bhel.abcprocure.com		
Parent department:	BHEL		
Unit name	:	BHEL Trichy	
Purchase group	:	FB Sub-Dely (C&I).	RFQ/NIT/Enquiry Officer : PUVANENDRAN L
Event ID	:	47993	RFQ/NIT/Enquiry no. : 1702000423
Enquiry Date	:	05/10/2020 05:30:00	
Tender Description	:	Remote type, UV & IR Flame Scanner System- Korba project	
Terms & Conditions	:	Note Bidder has to submit offer in e- Procurement site & for details related to bidding through e-procurement site (abcprocure) please visit URL -https://bhel.abcprocure.com. Refer minimum system requirement & Bidder manual in the abcprocure site. In case of any assistance, please contact for support in this link: https://bhel.abcprocure.com/EPROC/contactus All corrigendum will be published on BHEL website, CPP portal https://eprocure.gov.in/eprocure/app & https://bhel.abcprocure.com. The bidder has to keep track of any changes by viewing the addendum/Corrigendum's issued by the Purchaser on time-to- time basis in above websites regularly. The Company calling for tenders shall not be responsible for any claims/problems arising out of this. 1. The Tender will be operated on two Part Bid basis and please quote in the EPS. Part 1 (PQR & Techno commercial bid) Part 2 (Price bid) 2. The rates shall be quoted on FOR- KORBA WEST Project Site basis inclusive of Packing, Forwarding and Freight charges. Insurance shall be on BHEL scope. 3. Please submit the filled in Annexure-A Commercial Terms & Conditions and No Deviation format which has been attached to this Enquiry in the EPS. Conditions accepted in the Annexure A shall be binding between BHEL & vendor. Any Commercial T&C specified in other documents shall not be considered. 4. Please mention the Document / References in the Deviation format. In case there is a Deviation, please mention the same in the Deviation format. If nil Deviation, please mention it in the format. 5. In case you are a MSE vendor please submit the requisite documents as mentioned in the Annexure along-with the EPS offer in order to be considered as MSE vendor and avail the benefits. 6. All documents sent as attachment to this Tender shall be filled in, signed with company seal and uploaded along-with the offer in EPS. 7. Commissioning: As per specification clause 17, commissioning of the system at project site is in vendor scope. vendor to quote lump sum charges for commissioning of system at site in EPS- PRICE BID. 8. Reverse auction: BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified	

bidders shall be opened and the same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.

9. Guarantee/Warranty period: 12 months from the date of commissioning.

10. Both main and Mandatory spares requirement will be considered as a single package for ranking and ordering. L1 finalisation will be done based on total cost to BHEL on single package basis including lump sum commissioning charges, after loading against deviation. Vendor not quoting any item will lead to offer rejection.

11. Staggered Delivery: This is the requirement for Korba west R&M 3 and 4 projects, having different delivery schedule, hence vendor to supply the system in staggered delivery; tentative delivery schedule is given below:

Korba west -3 (4228) - JAN 2021

Korba west-4 (4229) - MAR 2021

12. Vendor approval by customer is applicable. Responded vendor's Part -1 will be evaluated and offer consideration for Part 2 is subject to vendor approval by customer. If vendor is not approved by customer, their offer will not be considered for further for evaluation. alternatively, their offer is also liable for rejection, in case of delay on vendor's part in credential submission / reply, after giving due time.

13. Offers not meeting the PQR will not be considered further for evaluation. Customer approved as well as PART -1 (PQR & Techno- commercial) qualified vendor offers will only be considered for PART 2 (Price bid) opening.

14. Both "MSED Act 2006 & Public Procurement (Preference to Make in India), Order 2017" Amendment dt 04.06.2020 guidelines will be followed for this tender. Vendorsto submit Self-Certification, indicating the percentage of local content with the Part-I Bid. In case of clash between these two guidelines, it is proposed to give preference to "Public Procurement (Preference to Make in India), Order 2017" Amendment dt 04.06.2020.

15. In case of any query related to this tender, please contact:

Mr. L Puvanendran , Dy Engineer /Management/BOI, Tel: 0431-2577928, email: puvan@bhel.in

Mr. G. Murugesan, Sr. Engineer/Materials Management/BOI Tel:0431-2577072, email: gmuru@bhel.in

Mr. Bimal Kanta Sethi, Manager/Materials Management /BOI Tel: 0431-2574175, email: bksethi@bhel.in

Product / service / work keywords	:	Flame Scanner,			
No. of Bid Parts	:	Multiple	Envelope	:	Techno-commercial bid , Price bid
Type of contract	:	Goods	Project duration / delivery or completion period	:	8 WEEKS
Download document	:	Before login			
IEM	:		Delivery/Location At	:	FOR/ SITE BASIS
Delivery Date	:	30/11/2020 05:30:00			

Bid submission configuration

Base currency : INR

Bidding type : NCB/Indigenous

Key configuration

Pre-bid meeting : Don't allow

Dates configuration

Document downloading start date : 05/10/2020 17:15:00 Document downloading end date : 15/10/2020 13:00:00

Bid submission start date : 05/10/2020 17:15:00 Bid submission end date : 15/10/2020 13:00:00

Bid opening date : 15/10/2020 13:05:00

Document / EMD / Security fee detail

Document fees : Not required EMD : Not required

Bidding forms

PRICE BID

PRICE BID 1

MATERIAL CODE	ITEM NAME	QUANTITY	UNIT OF MEASUREMENT
L422819508801001	REMOTE TYPE UV/IR FLAME SCANNER SYSTEM	2.00	SET
L4228S9508801001	SPARES FOR FLAME SCANNER SYSTEM	1.00	SET

PRICE BID 2

SL NO	ITEM NAME
1	REFER TABLE

Information for Online Participation

Bidder who wish to participate in this tender needs to procure Digital Certificate as per Information Technology Act-2000 using that they can digitaly sign their electronic bids. Bidders can procure the same from any or the CCA approved certifying agencies, or they may contact e-Procurement Technologies Ltd. at below mentioned address and they will assist them in procuring the same. Bidders who already have a valid digital Certificate need not to procure the same. In case bidders need any clarification regarding online participation, they can contact,

e-Procurement Technologies Ltd.

Corporate Office:

Address : A-201/208, Wall Street - 2, Opp. Orient Club,
Nr. Gujarat College, Ellis Bridge,
Ahmedabad - 380006, Gujarat(INDIA)

Digital Certificate Contacts

Contact Person : Mr. Himalay Vaishnav
Cell : +91-9099090830
Phone Nos. : +91-9099090830
Fax No :
e-Mail : info@abcProcure.com

Support Team Contacts

Contact Person : BHEL Support Team Ahmedabad
Cell : +91-9265562819
Phone Nos. : +91-79-68136849/50/48
Fax No :
e-Mail : Bhel.Support@abcProcure.com

Bidder who wish to participate in e-Tender need to fill data in predefined forms of Price bid available in respective tender only. After filling data in predefined forms bidders need to click on final submission link to submit their encrypted bid. Bidder need to submit Document Fees, EMD & Reference Documents in hard copy if such instruction are given by tendering authority. As Per the new Inter-operability guidelines released by Controller of Certifying Authorities(CCA), the Secured Socket Layer(SSL) certificate for a e-procurement application is generated on a new algorithm, SHA2.

Also, the Digital Certificates that will be applicable for these platforms have to be SHA2 algorithm complaint. For the same, the users have to ensure that they have Windows XP(SP3)/Windows Vista/Windows7 installed in their respective PC/Laptop. In case of Windows XP Service pack - 3, if you get any issue you can install the SSL patch, which is available at our download section of our e-Tender/e-Auction Portal and also at our corporate website www.abcprocure.com just below the label of "Knowledge section".

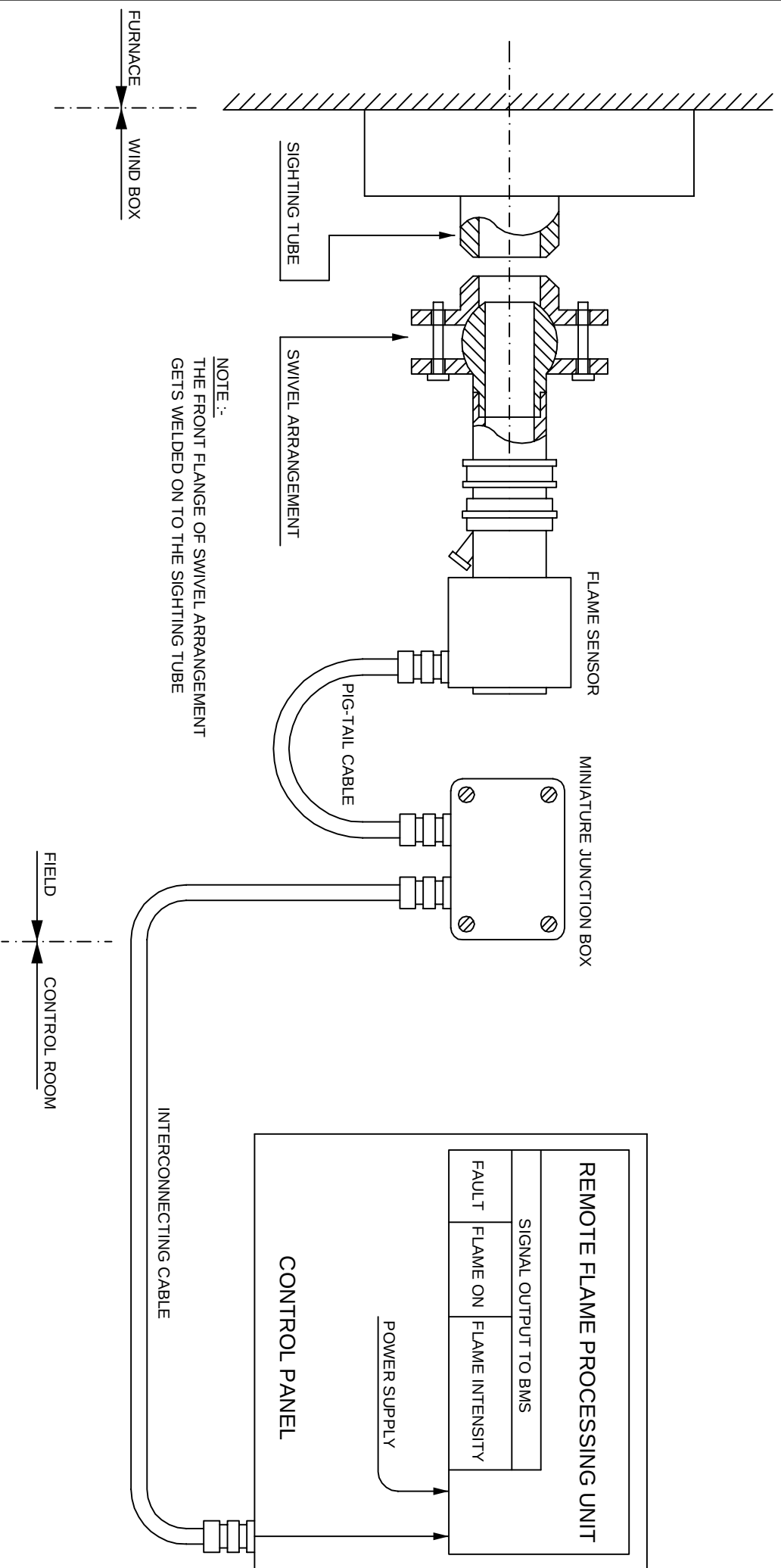
Fraud Prevention

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.

Preference to Make in India

Offers from Foreign vendors will not be considered. Offers of local vendors with less than the minimum local content as prescribed in this Tender will also not be considered. In the absence of any such information in the tender, the required minimum local content shall be 20%

For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%.



TYPICAL ARRANGEMENT OF FLAME SCANNER SYSTEM

Controls & instrumentation/Fossil Boilers
Pre-qualification requirement
(Remote Type Flame Scanner System for Coal + Oil fired Wall Burners)

1. The offered flame scanner system meeting the specification requirements TCI:340, Rev. 00, should be of a proven design and shall be successfully commissioned & in operation in a boiler with similar burner configuration, for a period of minimum 2 years as on the date of techno-commercial bid opening.
2. Vendor to submit a signed copy of the reference list of projects, where the offered flame scanner system meeting the above criteria, was supplied earlier. The reference list should contain the following details, Name of the projects, Capacity of the plant, location, Burner type, Scanner Model, year of commissioning and contact details etc.)
3. For the offered Flame scanner system, Vendor to submit the copies of product catalogues, performance certificates from the end users, Purchase order copies of earlier executed orders, test reports, commissioning protocols signed with end user after commissioning at site, product certifications.
4. Vendor should have the capability for the design, engineering, manufacturing, testing and supply of Flame Scanner System & related accessories.
5. Vendor should provide Commissioning, service support & supply of spares for the offered system as per the requirements of purchase enquiry.

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	
Enquiry Date	

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 color field)

 BHEL - TRICHY	THIRD PARTY NON-DISCLOSURE AGREEMENT		Doc.No. : ISMS-04/TP/011
			Ver. No: 3.0

THIRD PARTY NON-DISCLOSURE AGREEMENT

I, _____, on behalf of the _____ (Name of Company), acknowledge that the information received or generated, directly or indirectly, while working with BHEL, Trichy on contract is confidential and that the nature of the business of the BHEL, Trichy is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL, Trichy Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.
- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to BHEL, Trichy all documents and property of BHEL, Trichy, including: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL, Trichy 's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL, Trichy and are reasonable given the nature of the business carried on by the BHEL, Trichy I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Dated at _____, this ____ day of _____, 20__.

Name

Company

Signature