

PRE-QUALIFICATION REQUIREMENT

The BIDDER has to compulsorily meet the following requirements; offers qualifying the PQR will only be considered for technical evaluation.

Sl. No.	PQR	Vendor's compliance
1.	The vendor shall be active in the manufacturing & supplying BHELSCAN system modules to coal fired power plants in India for a period of at least 5 years from the date of enquiry.	

Bharat Heavy Electricals Limited

High Pressure Boiler Plant, Tiruchirappalli - 620 014

TECHNICAL DELIVERY CONDITIONS FOR SUB - DELIVERY COMPONENTS OF CONTROLS AND INSTRUMENTATION

TCI:258:FSHE20-CARD / REV. 01

PAGE: 01 OF 03

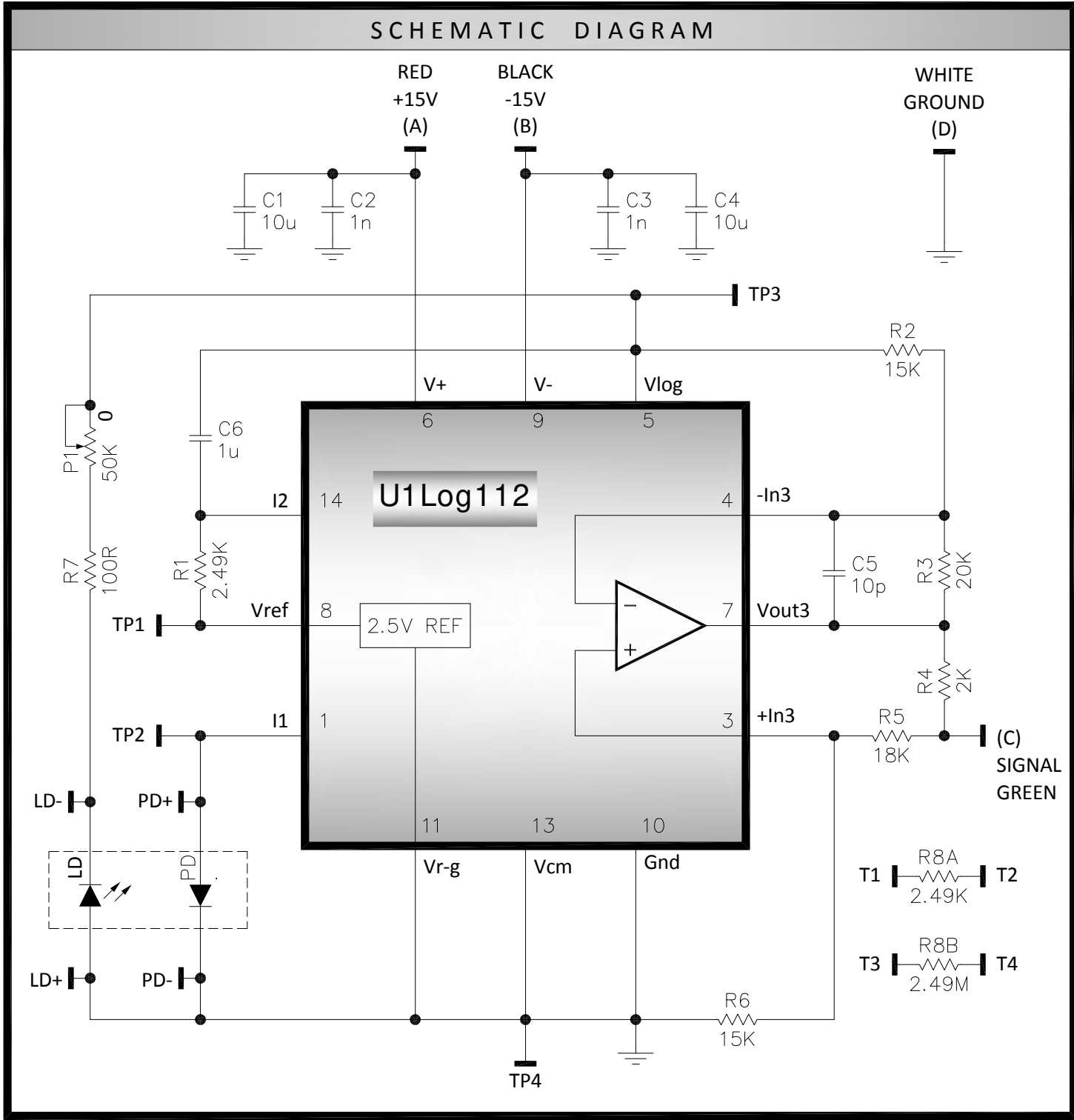
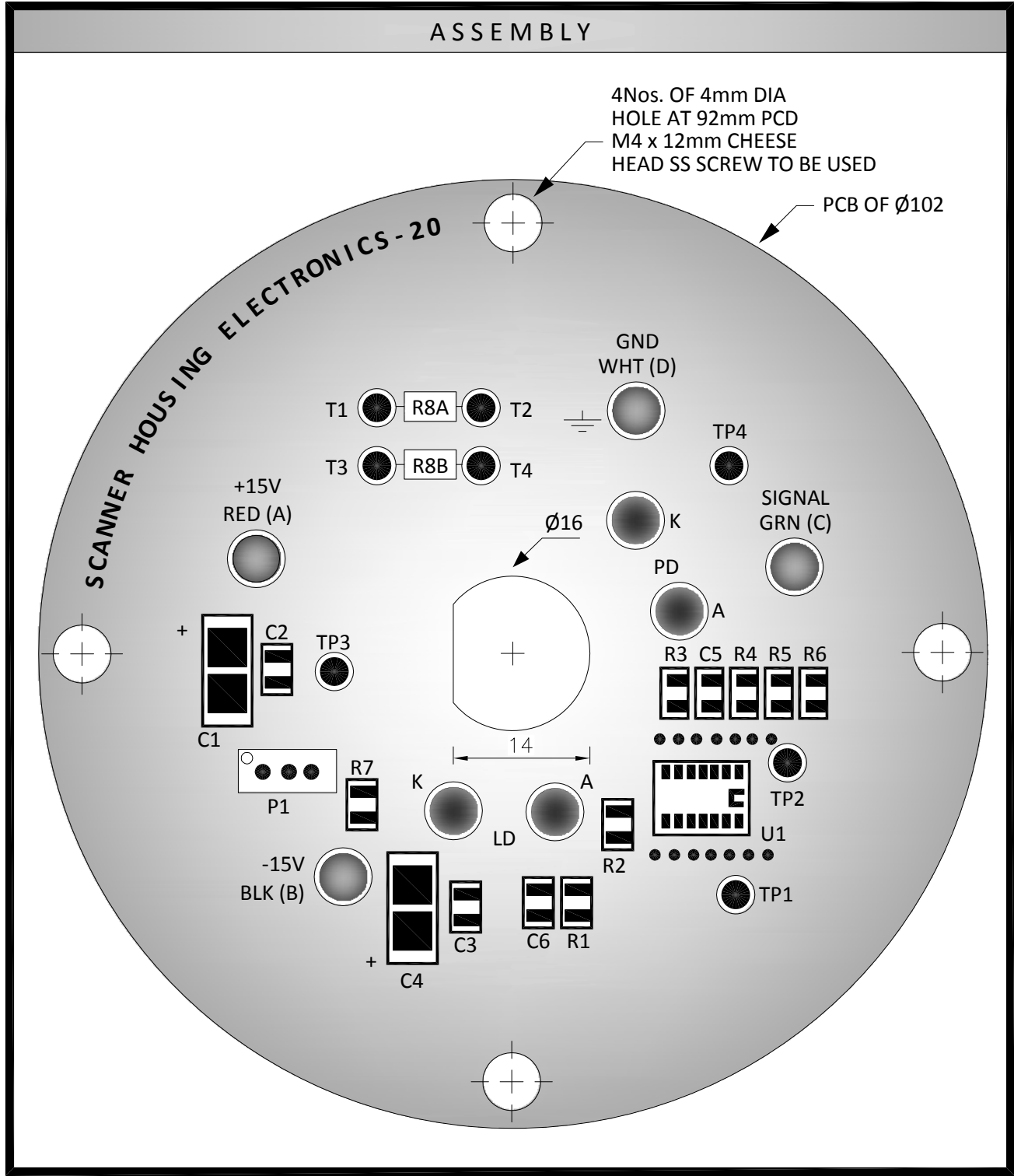
TECHNICAL SPECIFICATION FOR SCANNER HEAD ASSEMBLY HOUSING ELECTRONICS-20 (Applicable for BHELSCAN Flame Sensing System)

01	27/10/2018	Trim pot P1 value revised to 50K	 [SKS]	 [KV]	 [TK]
00	10-01-2013	Intial Release	Sd.-/ [AKP]	Sd.-/ [DS]	Sd.-/ [DMB/RMV]
Rev. no.	DATE	DESCRIPTION	PREPARED	REVIEWED	APPROVED

Clause No.	Characteristics	Requirement	Vendor Compliance (Refer Note)
1.0	<u>Site Conditions</u>		
1.1	Ambient temperature	50 °C.	
1.2	Atmosphere	Tropical, Dusty, salty & highly polluted.	
1.3	Relative humidity	100%	
2.0	<u>General</u>		
2.1	Reference Documents	As per Drg.No.2-95-088-03547 / Rev.01 (SCANNER HOUSING ELECTRONICS-20)	
2.2	<u>Technical Specification</u>		
2.2.1	IC Mounting	Surface Mount Technology / Surface Mount Device	
2.2.2	Grade of components	Industrial grade. Vendor shall furnish documentary evidence.	
2.2.3	Heat sink for IC	To be firmly fixed with conductive type adhesive.	
2.2.4	Fasteners for mounting PCB & earthing	Stainless steel – M4 x 12 mm cheese head along with spring washer (4 Nos. per PCB)	
2.2.5	PCB material	Double sided PCB thickness of 1.6mm with 70 microns copper thickness and track width of 1mm shall be used. PCB material shall be of FR4 laminate meeting the (94 V-0) specifications.	
2.2.6	Surrounding temperature	85°C. All component shall withstand this temperature without any change in performance.	
2.2.7	Inscription of components.	White colour legible.	
2.2.8	Pre-set potentiometer	Clock wise rotation to increment the output signal.	
2.2.9	Conformal coating / protective coating	Conformal coating material is to be applied to electronic circuitry to act as protection against moisture, dust, chemicals and temperature extremes.	
3.0	<u>Loose Supply items along with PCB module</u>		
3.1	Washer	As per Drg.no.3-95-088-04835/REV.03 (INTERNAL PROTECTOR PLATE FOR SAFE FLAME)	

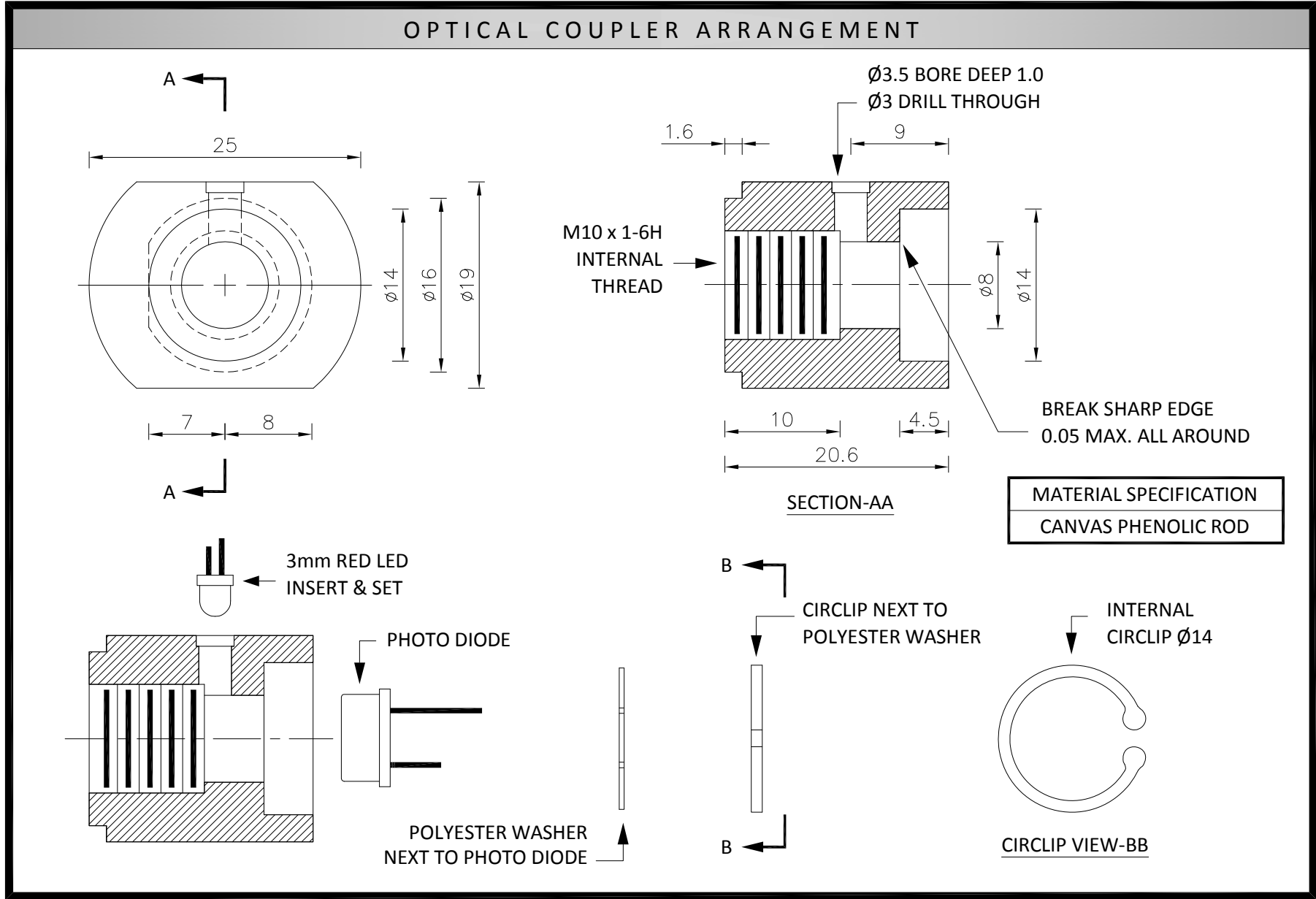
Clause No.	Characteristics	Requirement	Vendor Compliance (Refer Note)
3.2	Cable	1.0 sq.mm size multi strand Teflon insulated, terminated on the PCB using tubular turrets and covered with sleeve. The interconnecting wires of length 300mm. (Drg.No.2-95-088-03547.Refer note -5 in drawing).	
3.3	Cable Lug	The shield alone (E-Yellow wire) shall be terminated with 1.5 sq.mm ring type lug of ID 6mm and screwed to PCB mounting.	
3.4	Cable tie	25mm cable tie – 4 Nos. (Material – PVC / Plastic).	
3.5	Cable holder / clamp	6mm dia. (Material Plastic)	
4.0	<u>Documents Required</u>		
4.1	Along with Offer	a) Data sheet of all components. b) Point wise compliance to specification. c) Filled in signed copy of Sub-delivery enquiry deviation format if deviation any. Otherwise vendor to indicate "No-deviation"	
4.2	After Purchase Order	a) Internal Test Report for Routine Test. b) Drawings & BOM.	
5.0	<u>Inspection & Testing</u>	As per quality plan QA:CI:STD QP:65 (Latest Revision)	
6.0	<u>Packing</u>	Packing shall be as per Packing Procedure QA:CI:STD:PR:04 (Latest Revision)	

Note: In 'Vendor compliance' column Vendor to indicate 'YES', 'NO' or 'NOT APPLICABLE'.



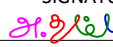
BILL OF MATERIALS			
SL. No.	LABEL	QTY	DESCRIPTION
1.	C1, C4	2	10uF, 10%, 35V OR BETTER CERAMIC SMD
2.	C2, C3	2	1nF, 1%, 35V OR BETTER CERAMIC
3.	C5	1	10pF, 1%, 50V OR BETTER CERAMIC SMD
4.	C6	1	1uF, 5%, 16V OR BETTER CERAMIC SMD
5.	LD	1	DIALCO/DIALIGHT # 521-9216F OR EQUIVALENT
6.	P1	1	50K MULTI TURN 1/2 W
7.	PD	1	EXCELITAS TECH. VTB5041BH
8.	PD+, PD-, LD+, LD-	4	MINIATURE TUBULAR TERMINALS KEYSTONE CAT. NO. 1238 OR EQUIVALENT
9.	R1	1	2.49K, 0.05%, 1/4W 10PPM OR BETTER SMD
10.	R2, R6	2	15K, 0.1%, 1/4W 10PPM OR BETTER SMD
11.	R3	1	20K, 0.1%, 1/4W 10PPM OR BETTER SMD
12.	R4	1	2K, 0.1%, 1/4W 10PPM OR BETTER SMD
13.	R5	1	18K, 0.1%, 1/4W 10PPM OR BETTER SMD
14.	R7	1	100R, 1%, 1/4W 50PPM OR BETTER SMD
15.	R8A	1	2.49K, 1%, 1/4W 10PPM MFR OR BETTER
16.	R8B	1	2.49M, 1%, 1/4W 10PPM MFR OR BETTER
17.	T1, T2, T3, T4	4	SINGLE IN-LINE SOCKETS PROTECTRON PART NO. P8050-20-11 OR EQUIVALENT
18.	TP1, TP2, TP3, TP4	4	1MM VERTICAL JACK TIP (INSULATED, GOLD PLATED, CONICAL) PROTECTRON PART. NO. P8001-14-12 OR EQUIVALENT
19.	U1	1	TEXAS INSTRUMENTS LOG112AID WITH HEAT SINK (FISCHER ELEKTRONIK ICK SMD A5 SA OR EQUIVALENT)

NOTES	
1. PRECISELY FOLLOW CALIBRATION PROCEDURE INDICATED IN QUALITY PLAN.	
2. TOLERANCE : ± 0.3 MM UNLESS OTHERWISE NOTED.	
3. VENDOR TO INDICATE MAKE AND MODEL No./PART No., THE SAME SHALL BE APPROVED BY BHEL BEFORE MANUFACTURING.	
4. REFERENCE DRAWING : SCANNER HOUSING ASSEMBLY (DRAWING No. 1-95-088-09697)	
5. TINNED COPPER MULTI-STRAND WIRE OF 1.0 SQ.MM CROSS SECTION WITH FOLLOWING COLOURS OF 300mm LONG SOLDERED TO PCB POST. A-RED, B-BLACK, C-GREEN, D-WHITE, E-YELLOW.	
6. THE TUBULAR TYPE TURRETS TP1&TP2, T1&T2 AND T3&T4 SHALL BE SPACED 15mm APART SO AS TO INSERT RESISTORS R8A & R8B DURING FUNCTIONAL TESTING AS PER TEST PROCEDURE.	
7. THE TURRETS T1-T4 ARE USED FOR HOLDING THE TEST RESISTORS, R8A AND R8B ON THE PCB. THEY ARE NOT PART OF THE HEAD ELECTRONICS CIRCUIT.	
8. LOOSE SUPPLY ITEMS TO BE PROVIDED AS PER THE TECHNICAL SPECIFICATION.	

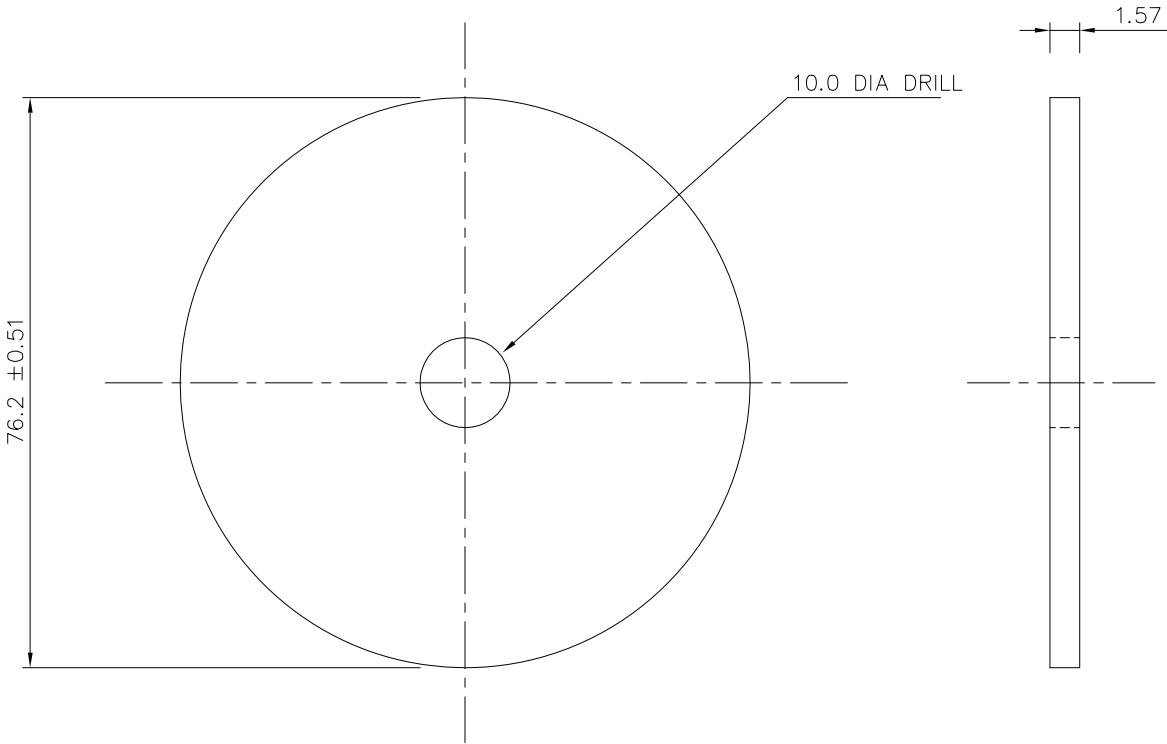


REV	DATE	ALTERED :
01	271018	CHD./APPD. :
P1 POT VALUE UPDATED TO 50K.		

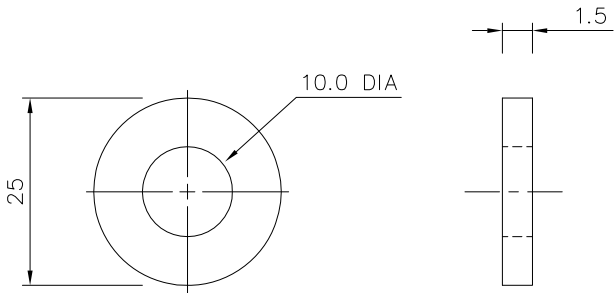
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STANDARD				
bal eca - ela 	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPPALLI - 620014			DRN	NAME A. Thamburaj	SIGNATURE  280913	DATE 28-09-13	NO. OF VAR
				CHD	A.K.Panda	Sd. / AKP	17-10-13	_____
				APPD	D.Srinivasan	Sd. / DS	17-10-13	_____
DEPT. : C & I		ALL DIMENSIONS ARE IN MM	SCALE NTS	WEIGHT (Kg) _____	REF TO ASSY / OLD DWG _____		ITEM NO _____	No OF ITEMS _____
CODE : 392								
TITLE SCANNER HOUSING ELECTRONICS-20				CARD CODE U 01	DRAWING NO : 2-95-088-03547 Sheet No. 01/01			REV 01

ITEM-01



ITEM-02
FLAT WASHER NYLON

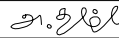
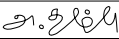


MATERIAL:

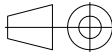
GLASS FILLED EPOXY, NEMA GRADE FR-4, NO COPPER CLADDING

NOTES:

- 1. TOLERANCE : ±0.25 MM UNLESS OTHERWISE NOTED.
- 2. ALL DIMENSIONS ARE IN MM.

			REV 03			DATE 271018	ALTERED :  271018				
			ZONE			GENERAL REVISION					
REV 02			DATE 130911	ALTERED :  130911		REV 01					
			CHD./APPD. : Sd. / AKP-KCM		CHD./APPD. : Sd./DS-KAK						
ZONE			ITEM-02, FLAT WASHER NYLON IS SHOWN			ZONE 1.			REVISED BASED ON C&I LETTER CI:QAC:55/DT. 06/08/98.		
						ZONE 2.			GENERAL REVISION AND DRAWN IN ACAD.		

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TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT											
				Bharat Heavy Electricals Ltd			DRN	NAME	SIGNATURE	DATE	NO. OF VAR
				UNIT: HIGH PRESSURE BOILER PLANT			CHD	D.Gnaniah	Sd. / DG	28-03-88	—
				TIRUCHIRAPPALLI - 620014			APPD	R.R.DANIEL	Sd. / RRD	28-03-88	
DEPT. : C & I				ALL DIMENSIONS ARE IN MM		SCALE NTS		WEIGHT (Kg)		REF TO ASSY / OLD DWG	
CODE : 392								B-984-0316/01		ITEM NO —	
TITLE								CARD CODE		DRAWING NO :	
INTERNAL PROTECTOR PLATE FOR BHELSCAN - FLAME SCANNER								U 01		3-95-088-04835	
										REV 03	



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI - 620014

QA:CI:STD:QP:65
Rev: 01 Page: 1 of 3

CONTROLS AND INSTRUMENTATION/QA/FB

STANDARD QUALITY PLAN FOR FLAME SCANNER HEAD ELECTRONICS CARD

REV	DATE	PREPARED	REVIEWED	APPROVED	REVISION HISTORY
00	31/01/2011	RM.VAIRAVAN	N.SRIDHAR	K.PALANIVEL	Initial release.
01	21/10/2013	RM.VAIRAVAN <i>[Signature]</i>	RM.VAIRAVAN <i>[Signature]</i>	N.SRIDHAR <i>[Signature]</i>	Revised the tuning procedure to match the new developed electronic module. General revisions.



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI - 620014

QUALITY PLAN FOR
FLAME SCANNER HEAD ELECTRONICS CARD

QA:CI:STD:QP:65
Rev: 01 Page: 2 of 3

Sl. No	Component & Operation	Characteristics	Class	Type of Check	Quantum of check		Ref Doc. & Acceptance STD	Format of record	AGENCY			Remarks
					M	B/ C			M	B	C	
A	Raw materials & Brought Out items inspection											
01	Active and Passive electronic Components	a. Make, Type No. & Rating	Major	PHYS	100%	-	Drg.	IIR/LGB	P	-	-	
		b. Functional	Major	ELEC	100%	-	Mfr. Std.	IIR/LGB	P	-	-	
		c. Burning and Screening test	Major	ENVI	100%	-	Procedure QA:CI:STD:PR:10	IIR/LGB	P	-	-	
02	Etched PCB	a. Material thickness, track width, Mounting gap	Major	MEAS	100%	-	Drg.	IIR/LGB	P	-	-	
		b. Surface defect, deburring, pin holes, under cut.	Major	VISU& PHYS	100%	-	Mfr. Std.	IIR/LGB	P	-	-	
B	In-Process Inspection											
01	PCB Assembly	a. Component Rating, location, finish	Major	VISU	100%	-	Drg., Spec.	IIR/LGB	P	-	-	
		b. Mounting, orientation of components	Major	VISU	100%	-	Drg., Spec.	IIR/LGB	P	-	-	
		c. Soldering	Major	VISU	100%	-	Drg., Spec.	IIR/LGB	P	-	-	
		d. Functional Check	Major	ELEC	100%	-		IIR/LGB	P	-	-	
		e. Temperature Cyclic Test	Critical	ENVI	100%	-	Procedure QA:CI:STD:PR:07	TC	P	V	-	
		f. Dry heat Test	Critical	ENVI	One of Design	One of Design	Procedure QA:CI:STD:PR:05	TC	P	V	-	Refer Note: 9
		g. Damp heat Test	Critical	ENVI	-Do-	-Do-	Procedure QA:CI:STD:PR:07	TC	P	V	-	Refer Note: 9
		h. Bump Test	Critical	ENVI	-Do-	-Do-	IS9000 Pt. VII	TC	P	V	-	Refer Note: 9
		i. Drop Test	Critical	ENVI	-Do-	-Do-	Note: D.8	TC	P	V	-	Refer Note: 9
		j. Vibration Test	Critical	ENVI	-Do-	-Do-	IS9000 Pt. XIII	TC	P	V	-	Refer Note: 9
02	Assembly of Components	Wiring on PCB with connector and colour code	Major	VISU	100%	-	Drg., Spec.	IIR/LGB	P	-	-	

M - MANUFACTURER/ SUB-VENDOR; **B** - BHEL / TPI ; **C** - CUSTOMER / TPI
P - PERFORM; **W** - WITNESS **V** - VERIFICATION;



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI - 620014

QUALITY PLAN FOR
FLAME SCANNER HEAD ELECTRONICS CARD

QA:CI:STD:QP:65
 Rev: 01 Page: 3 of 3

Sl. No	Component & Operation	Characteristics	Class	Type of Check	Quantum of check		Ref Doc. & Acceptance STD	Format of record	AGENCY			Remarks
					M	B/ C			M	B	C	
C	Finished Product Inspection											
01	Routine Tests	a. Dimension, Serial Number	Major	MEAS	100%	20%	Drg., Spec.	TR	P	W	-	
		b. Functional checks	Major	ELEC	100%	20%	-do-	TR	P	W	-	Refer Note: E
		c. HV test (500V for 1 min)	Major	ELEC	100%	10%	Spec.	TR	P	W	-	

D.NOTES:

1.LEGENDS:

ELEC	:	Electrical	MEAS	:	Measurement
TR	:	Test Report	TC	:	Test certificate
VISU	:	Visual	CHEM	:	Chemical
LGB	:	Log Book	IIR	:	Internal Inspection Report
PCB	:	Printed Circuit Board	PHYS	:	Physical

- The vendor shall arrange all testing facilities at their works. Tests for which facilities are not available are to be carried out at recognized National Test Houses like ETDC/CIL/NPL/ERTL etc., at vendor cost.
- Through Log Book / any other documents available at the vendor's works, it shall be possible to correlate the finished products with raw material and in process stage checks / inspection carried out.
- All Measuring and Testing Instruments shall be periodically calibrated from recognized test houses & certificates made available during inspection for verification.
- Test Certificates for routine test are to be furnished by the vendor.
- Vendor to give tentative inspection program in advance and confirm exact date two weeks in advance for arranging BHEL's inspection.
- Packing shall be as per the "PACKING PROCEDURE" indicated in the specification.
- Drop test: Drop the PCB from a height of 100mm for 6 times. After this, functional check shall be carried out for satisfactory operation.
- Test certificates shall not be older than 5 years from the date of Purchase Enquiry.

E. Test Procedure:

- Ensure that voltage between TP1 and TP4 is 2.5 ± 0.02 V.
- Adjust P1 to set output current at Terminal C- SIGNAL (GRN) to $2.10 \text{ mA} \pm 0.05 \text{ mA}$ when there is no light incident on the photodiode PD1.
- Inject 1 mA into TP2; the voltage at TP3 must be $0 \pm 0.02\text{V}$, current output at Terminal C- SIGNAL (GRN) $0 \pm 0.01 \text{ mA}$. [Alternatively, insert resistor of $2.49 \text{ k}\Omega$ 1% MFR (R8A) between TP1 and TP2. The voltage at TP3 must be $0 \pm 0.02\text{V}$, current output must be $0 \pm 0.01 \text{ mA}$.]
- Inject 1 uA into TP2; the voltage at TP3 must be $-1.5 \pm 0.02\text{V}$, current output $1 \pm 0.01 \text{ mA}$. [Alternatively, insert resistor of $2.49\text{M}\Omega$ 1% MFR (R8B) between TP1 and TP2, the voltage at TP3 must be $-1.5 \pm 0.02\text{V}$, current output $1 \pm 0.01 \text{ mA}$.]
- Check if the relationship between current output at Terminal C- SIGNAL (GRN) and voltage at TP3 is $0.67 \pm 0.02 \text{ mA/V}$ at various intensities of light incident on the photodiode.
- If outputs for steps 1, 3 and 4 are not as expected, Log112 may be replaced.

F. REFERENCE STANDARDS:

(For Indicated Standards Refer the Latest Version)

IS9000 pt VII	:	Specification for environment test-Bump Test
IS9000 Pt XIII	:	Specification for environment test-Vibration test.
QA:CI:STD:PR:05	:	Procedure for Dry Heat Cyclic test.
QA:CI:STD:PR:06	:	Procedure for Damp Heat Cyclic test.
QA:CI:STD:PR:07	:	Procedure for Temperature Cyclic test.
QA:CI:STD:PR:10	:	Procedure for Screening and Burning test

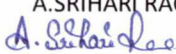
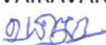
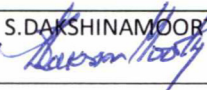
SQP65R1.DOC

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P - PERFORM; **W** - WITNESS **V** - VERIFICATION;

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI**

**CONTROLS AND INSTRUMENTATION / FB
QUALITY ASSURANCE**

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

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

1. Scope

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

2. Material for packing

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

3. Packing

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

3.1) Marking & Labelling:

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

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

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

4. Marking

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

5. Packing Slip

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

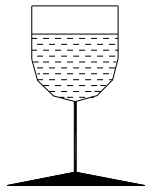
6. Caution

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

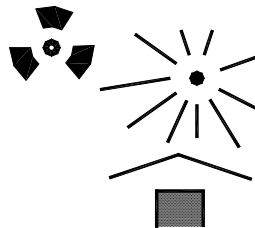
7. General

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

ANNEXURE – 1



FRAGILE, HANDLE WITH CARE



PROTECT FROM HEAT AND RADIOACTIVE SOURCES



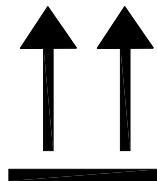
USE NO HOOKS

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



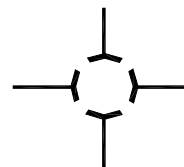
KEEP DRY

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



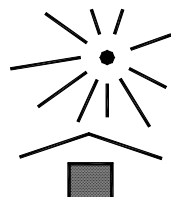
THIS WAY UP

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

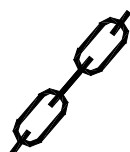


CENTRE OF GRAVITY

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

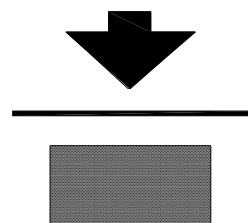


KEEP AWAY FROM HEAT



INTERNATIONAL "SLING HERE" SYMBOL

... kg max



STACKING LIMITATION

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

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	GEM/2021/B/1286442
Enquiry Date	16.06.2021

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)

Schedule of deviation to Sub-delivery Enquiry No. : **GeM Bid no: GEM/2021/B/1286442**

Description : **FLAME SCANNER HEAD ELECTRONICS CARD - 20**

Documents : **Specification: TCI:258: FSHE20-CARD/REV.01**

Drawing Nos. : **-**

Quality Plan : **QA:CI:STD:QP:65 REV.01**

Packing Procedure : **QA:CI:STD:PR:04 Rev.03**

Document reference	BHEL called for	Firm's alternative 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