		_		-		
<u>лана</u> так	BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA		NUMBER: K0000206 7Q DATE : 7.12.2018	Due Date/Day: 18.01.2019 FRI Time : 13:00 HRS Tender Box : Reception Area Opening Venue: NEW ENGG. BLDG		
(address for comm	unication) :		(for all correspondence) Purchase Executive : Ankita Reja Phone : 08025146134 Fax : E-mail: ankitareja@bhel.in			

1. Please drop your offer before due date & time in the tender at the reception of BHEL-ESD, Electronic city-1, Bangalore.

Offers by e-mail are also accepted. The offers by Email shall be sent to Email ID defnesdmm@bhel.in with subject line RFQ: ANK0000206.
 Quotations and Items Items should be delivered to:

BHEL-ESD,

PLOT NO 98,

ELECTRONIC CITY PHASE 1,

HOSUR ROAD,

BANGALORE-560100,

KARNATAKA.

4. The following are the attachments along with the RFQ:

- RFQ Special instructions

- Pre-Qualification Criteria & Purchase Specification Ref: PS/460/020 dtd.21.12.2018

- Commercial clarifications sheet (To be submitted along with offer)

- Unpriced bid format (Price bid to be submitted in this format. Unpriced bid should be submitted as part of Part-I bid)

-Instructions to Bidders and General Commercial Conditions of Contract

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	DR0491227040 POWER TRANSFORMER 5 kVA * HSN/SAC :	159	NO	159	15.02.2019
	Power Transformer Dry Type 5 kVA, 350V/230V & 230V Single Phase, 50Hz, HV: Primary : 350 V Primary taps ± 5%, ± 10% LV: Secondary 1: 230v @3.5kVA Secondary 2: 230v @1.5kVA, Class B insulation Screen between primary and secondary. Screen to be brought out separately. Impedance: 4% Insulation level: 3kV Reference standards: IS2026 & IS11171 Natural Air cooling Ambient temperature of 55 deg C Terminal details: P1: 0 V P2: 350 V 1S1: 0 V 1S2: 230 V 2S1: 0 V 2S2: 230 V Std: ED 7461195 Polycarbonate sheet 8mm thick above terminals. Info required with offer: Dimensional drawing Maximum allowable dimensions are as below: Overall Dimensional(W*L*H)=				

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS	
NOTES :	For and On behalf of BHEL.
 1.This RFQ is Governed by : a)INSTRUCTIONS TO BIDDERS/SELLERS(Doc No :BHEL:EDN:ITB-SHOP) available at www.bheledn.com (RFQ-PO Terms & Conditions) b)GENERAL CONDITIONS OF CONTRACT FOR PURCHASE(Doc no :BHEL:EDN:GCC-SHOP) available at www.bheledn.com (RFQ-PO Terms & Conditions) c)Any other specific Terms and Conditions mentioned. Bidders / Representatives who would like to be present during opening of offers are required to 	Ankita Reja Control Equipment 1 OF 2
furnish authorization letter for the same . * The HSN/SAC no mentioned against the line items in the RFQ are indicative only.	

	REQUEST FOR Q	UOTATIO	DN				
	HARAT HEAVY ELECTRICALS LIMITE Electronics Division No. 2606, Mysore Road Bangalore - 560 INDIA	ED	FQ NUMBER: ANK0000206 RFQ DATE : 27.12.2018	Due Date/Day: 18.01.2019 F Time : 13:00 HRS Tender Box : Reception Are Opening Venue: NEW ENGG. BLDG			
(address for communication)):						
RFQ Special instructionsPre-Qualification CriteriaCommercial clarifications	SE 1, tachments along with the RFQ: & Purchase Specification Ref: PS/460/020 dtd.21.12.3 sheet (To be submitted along with offer) ice bid to be submitted in this format. Unpriced bid		nitted as part of Par	-t-I bid)			
-	General Commercial Conditions of Contract Description	Qty		Delivery qty	Delivery Date		
(230*320*400)and (170*185) All dimensions are in	d Mounting pitch dimension (W*L)=						
Fotal Number of Items	- 1						

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS	
NOTES :	For and On behalf of BHEL.
1. This RFQ is Governed by :	
a)INSTRUCTIONS TO BIDDERS/SELLERS(Doc No :BHEL:EDN:ITB-SHOP) available at	
www.bheledn.com (RFQ-PO Terms & Conditions)	
b)GENERAL CONDITIONS OF CONTRACT FOR PURCHASE(Doc no :BHEL:EDN:GCC-SHOP)	Ankita Reja Control Equipment
available at www.bheledn.com (RFQ-PO Terms & Conditions)	Connor Equipment
c)Any other specific Terms and Conditions mentioned.	2 OF 2
2. Bidders / Representatives who would like to be present during opening of offers are required to	
furnish authorization letter for the same .	
* The HSN/SAC no mentioned against the line items in the RFQ are indicative only.	

RFQ No.ANK0000206 - SPECIAL INSTRUCTIONS

1. This RFQ is issued for entering into rate contract with BHEL for 159 no's Power Transformers 5kVA.

2. BHEL may consider an additional qty of <u>+</u>10% of 159 nos.

3. Validity of this Rate contract will be for 1 year from the date of award of the contract.

4. The prices and other terms and conditions agreed upon shall remain firm till the validity of the rate contract or till completion of supplies against the purchase orders placed against this rate contract, whichever later.

5. RFQ qty is the projected quantity for 1 year. Purchase orders shall be placed as and when actual requirements arise during the tenure of this rate contract.

6. The quotation has to be submitted in TWO parts

i. PQC, Purchase specification, Techno-commercial unpriced bid AND

ii. Price bid

Separately against this RFQ. The PQC and Techno-commercial bids will be opened on the due date specified and shall be evaluated such that all technical and commercial issues are frozen. The date and time of opening of price bids will be intimated to the bidders whose techno-commercial bids are accepted.

7. Offers by e-mail are also accepted. Offers by e- mail to be sent to defnesdmm@bhel.in.

- 8. Validity of the offer should be 90 days for entering into Rate contract.
- 9. Offer shall be liable for rejection in case of non-acceptance for entering into a Rate Contract.
- 10. Delivery time shall be 04 weeks from the date of purchase order.
- 11. Warranty shall be for 12 months from the date of supply of items.

12. Quotations and items should be sent to:

BHEL - ESD, plot no. #98, electronic city phase 1, Hosur road, Bangalore- 560100.

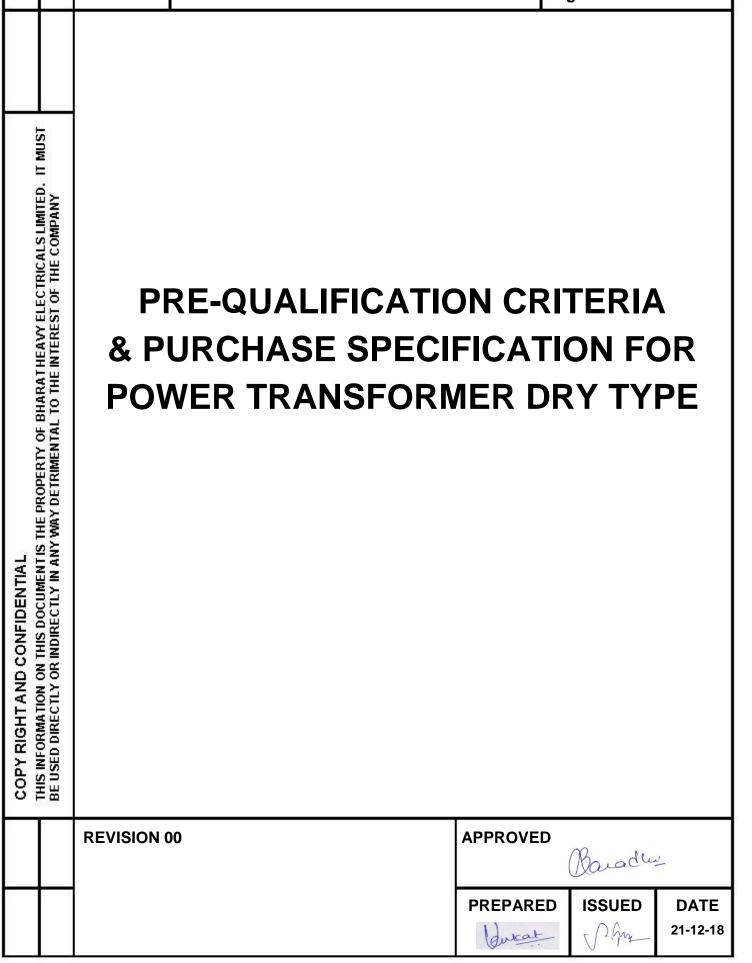


PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

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PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

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REVISION HISTORY SHEET

REV NO	DATE	NATURE OF CHANGE	REASON	PREPARED BY	APPROVED B
00	21-12-18	First Issue	-	V.V.VENKAT	P.BARADHI
				<u> </u>	



PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

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Pre-Qualification Criteria & Purchase Specification For Power Transformer dry type (BHEL P/N. DR0491227040)

1.0 Pre-Qualification Criteria (PQC)

The supplier shall necessarily meet the following conditions.

SI. No	Particulars	Supplier's Confirmation (Y/N)
1	The vendor shall be an Original Equipment Manufacturer (OEM) or OEM's authorized dealers/representative.	
	A latest valid authorization letter from OEM giving full contact details shall be furnished along with offer (by dealer/ representative).	
2	Offer shall be for new equipment and not for any refurbished or used equipment. All the parts used in the equipment shall be new and not used / refurbished ones. A declaration to that effect to be furnished along with offer.	
3	The vendor or vendor's authorized service representatives shall have trained personnel for service for the offered equipment and shall be in a position to provide prompt after sales service. This service network shall necessarily be available in India. <i>A declaration to that effect to be furnished along with</i> <i>offer.</i>	

Note:

- The Pre-Qualification Criteria (PQC) are mandatory requirements and the technical bid will be considered only if all the above PQC are met.
- 2) All Supporting documents related to PQC shall be enclosed in techno-commercial offer.

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PRE-QUALIFICATION CRITERIA & PURCHASE SPECIFICATION

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2.0Technical Requirements

- 1) Power Transformer Dry Type 5 kVA, 350V/230V & 230V Single Phase, 50Hz.
- 2) HV: Primary : 350 V, Primary taps ±5%, ±10%
- 3) LV: Secondary 1: 230V @3.5kVA
- 4) LV: Secondary 2: 230V @1.5kVA
- 5) Class B insulation Screen between primary and secondary. Screen to be brought out separately.
- 6) Impedance: 4% Insulation level: 3kV
- 7) Reference standards: IS2026 & IS11171
- 8) Ambient temperature of 55 deg C (Natural Air Cooling)
- 9) Terminal details: P1: 0 V P2: 350 V 1S1: 0 V 1S2: 230 V 2S1: 0 V 2S2: 230 V
- 10) Std: ED 7461195
- 11) Polycarbonate sheet 8mm thick above terminals.

12) Dimensional drawing (To be submitted along with the technical offer)

Maximum allowable dimensions are mentioned below:

Overall Dimensional (W*L*H) = (230*320*400)

Mounting pitch dimension $(W^*L) = (170^*185)$

Note: All dimensions are in mm.

13) Routine Tests (Reports are to be submitted along with the items)

- (i) Verification of terminal marking and polarity.
- (ii) Power frequency dry withstand tests on primary windings.
- (iii) Power frequency dry withstand tests on secondary windings.
- (iv) Over-voltage inter-turn test.

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REV NO	DATE	NATURE OF CHANGE	REASONS	PREPARED BY	APPROVED BY		
00	23/07/96	SUPERSEDES CN74500S		BS,NS	N.J		
01	02/10/99	Cl.4.3 &Cl.12.3 Note added	F.B From GHC.Group	BKD, CCR	NS		
02	14/07/03	Cl.1.2,4.1,4.3 &12.3 Revised	F.B. (GHC) CE\GHC\2003 STDS\KVBR	HRN	NS		
1			Dt.10/07/03				
					· ·		
			APPROVED N.SRIDHA	ran Trad	han		
			PREPARED HRN	: ISSUED : STDS GROU	DATE : JP 14/07/		
	 						

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	PLANT STANDARD	ED 746 11 95
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	SPECIFICATION FOR POWER AND CON TRANSFORMER	<u>TROL</u>
1.0	SCOPE	
1.1	This Standard details the specification polyphase drytype, power and control tra	ns for single and ansformers.
1.2	This Standard shall be read in conjunct And IS:2026	ion with IS:11171
2.0	DEFINITIONS	
	For the purpose of this Standard foll shall apply.	owing definitions
2.1	Power transformer : Single phase trans 1KVA and 3 phase transformer rated ab designated as power transformer.	former rated above ove 5KVA shall be
2.2	Control transformer : Single phase tran and 3 phase transformer below 5 KVA sha control transformer	sformer below 1KVA ll be designated as
3.0	SERVICE CONDITIONS	
3.1	Max ambient temp : 50 ⁰ C	
3.2	Cooling : Air natural	
3.3	Humidity : 100 percent	
3.4	Ventilation : Restricted as inside a cubic	it is mounted le (1P 21)
4.0	RATING	
4.1	KVA Rating : The rated KVA assigned taking into ac condition as specified in 3.0 The following shall be the preferred rat	
REVI	SIONS: APPROVED: N.SRIDHARAN	Tradher
	PREPARED: IS BS NS ST	SSUED: DATE: TDS.GROUP, 23/07/96.

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	PLANT STANDARD	ED 746 11 95
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- 14	4	PAGE 2 OF 13
- 	3 Phase Transformers : 0.25,1,1.5,2,2.5,3,4,5,6,7.5,10,12.5,15, 50,55,60,65,75,80,100,135,160,200,250,30	20,25,30,35, 40 ,45, 0,350 & 400 KVA
	Single Phase Transformers : 50,100,150,200,300,500,750 VA 1,1.25,1.5,2,3,4,4.5,5,5,6,7.5,10,12.5,1	5,20 & 25 KVA
2	Rated Voltages : The rated voltages assigned to the transformers may be operated at its : voltage within +/-10% of rated voltage.	winding s of the rated KVA at any
3	No Load Current	
,	SlNo. Rating Value	
	than 5KVA	of rated current of rated current proval of iron
4.4	Rated Frequency The frequency for the purpose of this st Hz unless otherwise specified, with a to	andard shall be 5
5.0	TEMPERATURE RISE	
	The Transformer shall conform to the Temperature Rise specified in IS:2026 pa	
5.0	INSULATION LEVELS	
	The Transformer shall conform to the insulation Levels Specified in IS:2026 p	
.0	TAPPING	
	Unless otherwise specified all transprovided with off load tapings on+/-5% ar	
.0	CONNECTION	
	For the purpose of this standard the wi shall be in accordance with IS:2026 part	

		PLANT	STANDARE)		ED	746	 5 11	95		
BHEL	• • .	ELECTRONICS DIVISION		RE	REV NO 02			 -			
A4 - 14				•	- 	PA	GE	3	OF	13	

9.0 IMPEDANCE

Unless otherwise specified transformers shall have the following impedances.

Up to and including 250VA - 6% Above 250VA up to and including 150KVA - 4% Above 150KVA up to 400 KVA - 5%

The tolerance for the impedance values shall be +/-10%

10.0 TERMINAL MARKINGS

For the purpose of this standard the various terminal markings shall be as stated below

10.1 The windings of the transformers shall be denoted by HV & LV. HV refers to high voltage winding and LV refers to low voltage winding.

10.2 Line terminals shall be marked as

For 3 phase transformers 1U,1V,1W for HV windings and 2U,2V,2W for LV windings

For Single phase Transformers P1,P2 for HV winding and S1,S2 for LV winding

The markings shall be started from left hand-side as viewed for HV side.

Neutral Terminal shall be marked as 1N for HV side and 2N for LV side.

- 10.3 The tapings shall be marked with natural ascending sequence as shown in the figure-1. The tapings shall be through tap selector for all transformers rated above 250VA.
- 10.4 The rated voltage of the transformer shall be marked by the side of respective terminals.

10.5 Earthing terminals shall be marked with earthing mark ()

FIG-1

· · · · · · · · · · · · · · · · · · ·	PLANT STANDARD	ED 746 11 95		
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11.0 TERMINALS

All terminals except Bar type shall be of nickel plated Brass. Bar terminal shall be of pure copper of appropriate grade. Nut & Bolt shall be secured with vibration proof washers. The appropriate size of the terminals shall be as given in Table-III.

			TA	BLE - I	III	1 4	· ·	
Type of terminal				Curi	rent rat	ing		
	5A	10A	20A	50A	100A	200A	300A	50 0A
Screw/Stud	M6	M6	M8	M10	M12	-	-	-
Bar					20X 1 hole M8		25X6 1 hole M8	40X6 1 hole M12

12.0 FITTINGS

All transformers shall be provided with following fittings

12.1 Rating plate :

Transformers shall be provided with rating plates of weather proof material. Rating plate shall be fixed along the breadth of the transformer & a provision shall be made to fix it along the length of the adjacent side.

For transformer rated 250VA & below rating plate shall be fixed along the breadth

The rating plate shall be marked legibly with following markings

A) Transformers rated above 250VA

- 1) KVA rating
- 2) Voltage Ratio
- 3) HV/LV Current
- 4) Tapings
- 5) No. of Phases
- 6) Vector grouping
- 7) System Frequency
- 8) Insulation Level
- 9) Insulation Class

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	<pre>10) % Impedance 11) Reference Standard : IS:2026 12) Ambient temperature</pre>	
	13) Weight 14) Sl.No. & Year of manufacture 15) Manufacturer Name	

B) Transformers rated below 250VA

- 1) KVA rating
- 2) Voltage ratio

3) Phase

4) Connection

5) Insulation class

6) Frequency

12.2 Diagram Plate :

Transformers shall be provided with diagram plate and shall be fixed along the breadth along with rating plate. It shall be legibly marked with a connection diagram.

12.3 Terminal board :

All the terminations of the transformers shall be brought out and fixed on the terminal board which is fixed on the top. The dimensions shall be as specified in annexure.

The material of the terminal board shall be of PRBC sheets (or any other better insulator) insulated and varnished. It shall be designated to take up the required torque. The terminals shall be rigidly fixed on the board with suitable fasteners, with adequate clearance as per table-IV.

Note: 8mm thick perspex cover shall be provided over the terminal board

Rated <i>V</i> oltage	To earth in air mm	Between phases in air mm
415V	15.8	19.0
600V	19.0	19.0
3300V	50.8	50.8
6600V	63.5	88.9
11KV	76.2	127.0

TABLE - IV CLEARANCE DISTANCES

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12.4 Lifting lugs :

Lifting lugs shall be provided for transformers weighing more than 50Kgs. Two lifting lugs shall be provided at two ends diagonally opposite to each other for transformers weighing more than 50 Kgs but below 100 Kgs. For transformers weighing more than 100 Kgs four lifting lugs shall be provided at each end.

12.5 Earthing terminals :

Two earthing terminals shall be provided on all the transformers. The size of the earthing terminals may be less than the rated conductor size.

12.6 Top Supports

4 holes each of 12mm dia shall be drilled on the lower portion of the top frame of transformer, to facilitate rigid fixing to the enclosure. However, this shall be provided for transformers rated 10KVA and above. The details are shown in fig.II.

FIGURE 2

Note : 'F' is taken approximately as 75% of 'B'

13.0 ADDITIONAL INFORMATION

The following are the materials recommended to be used for constructions of transformers

A. Core : CRGO grade 41/51 or any equivalent grade. B. Winding : Pure copper of appropriate grade and with suitable insulation.

C. Insulation, Varnish etc : Shall be to appropriate class of insulation.

14.0 DIMENSIONAL DETAILS

All transformers should conform to dimensions specified in Annexure. The values mentioned for overall dimensions are maximum values. The values for mounting holes are exact values. The dimensions shall be within tolerance mentioned therein.

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15.0	TESTS		• • • •				
15.1	Following are the tests for power transf	ormers					
	<pre>A. Type tests : 1. Temperature rise test 2. Lightning impulse test</pre>						
	 B. Routine tests : 1. Measurement of winding resistance 2. Voltage ratio test 3. Check on vector grouping 4. Measurement of losses : Load & No 5. Induced over voltage test 6. Check on % impedance 7. High voltage test 	load los	3 5				
15.2	Following are the test for control trans	formers					
	A. Type test : 1. Temperature rise test	 					
	 B. Routine test : 1. Measurement of winding resistance 2. Voltage ratio and polarity check 3. Vector grouping test 4. Measurement of loss : Load & No lo 5. Induced over voltage test 6. Insulation resistance test. 	ad loss					
15.3	The manufacturer shall submit the test tests on transformers.	certif	ica	tes	for		
16.0	SUPPLY CONDITIONS						
	Following information are to be supplied	by the	sup	pli	er		
16.1	Iron and copper losses at specified temp	erature					
16.2	Flux density in the core						
16. 3	Current density of the coil : HV & LV						
16.4	Winding resistance	·		•			
16.5	Supplier shall submit 6 copies of certificates along with the materials	test	gua	ran	itee		

way detrimental to the interest of the company.

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16.6 Transformers shall be suitably packed in wooden carters such that no damage is caused during transportation and handling.

FI	GI	JRE	3
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						•.			
TYPE	KVA	 А	В	С	KXE	0	X	Y	-
ST-1	0.05	100	130	85	80X60	5X10	95	85	
ST-02	0.10	120	130	90	80X60	5X10	95	90	
ST-03	0.15	120	150	90	95X60	5X10	115	90	
ST-04	0.20	120	175	100	95X75	6X1 2	115	100	
ST-05	0.25	120	175	100	95X90	6X12	115	100	
ST-06	0 .30	120	175	125	95X100	6X12	120	125	
ST-07	0.50	150	190	150	125X 100	8X15	150	145	
ST-08	0.75	200	250	150	150X120	8X15	185	150	
ST-09	1.00	200	250	160	160X130	8X15	185	160	
ST-10	1.25	200	250	160	1 60X130	8X15	185	160	
ST-11	1.50	280	300	175 [.]	160X130	10	200	160	
ST-12	2.00	280	300	175	180X130	10	220	160	
ST-13	3.00	300	350	200	200X150	10	220	180	
ST-14	4.00	320	360	200	240X150	10	220	180	
ST-15	4.50	320	400	200	240X170	10	250	200	
ST-16	4.50	350	450	200	240X170	10	250	200	
ST-17	5.00	350	450	200	240X170	10	250	200	
ST-18	6.00	350	475	200	260X170	10	300	200	
ST-19	7.50	350	500	240	290X200	10	300	250	
ST-20	10.00	400	500	240	290X200	10	300	250	
ST-21	12.50	400	600	250	330X200	10	300	250	
ST-22	15.00	450	600	250	250X200	10	300	250	
ST- 23	25.00	500	600	250	40 0X200	10	300	250	

PLANT STANDARD

ED 746 11 95

BHEL

ELECTRONICS DIVISION

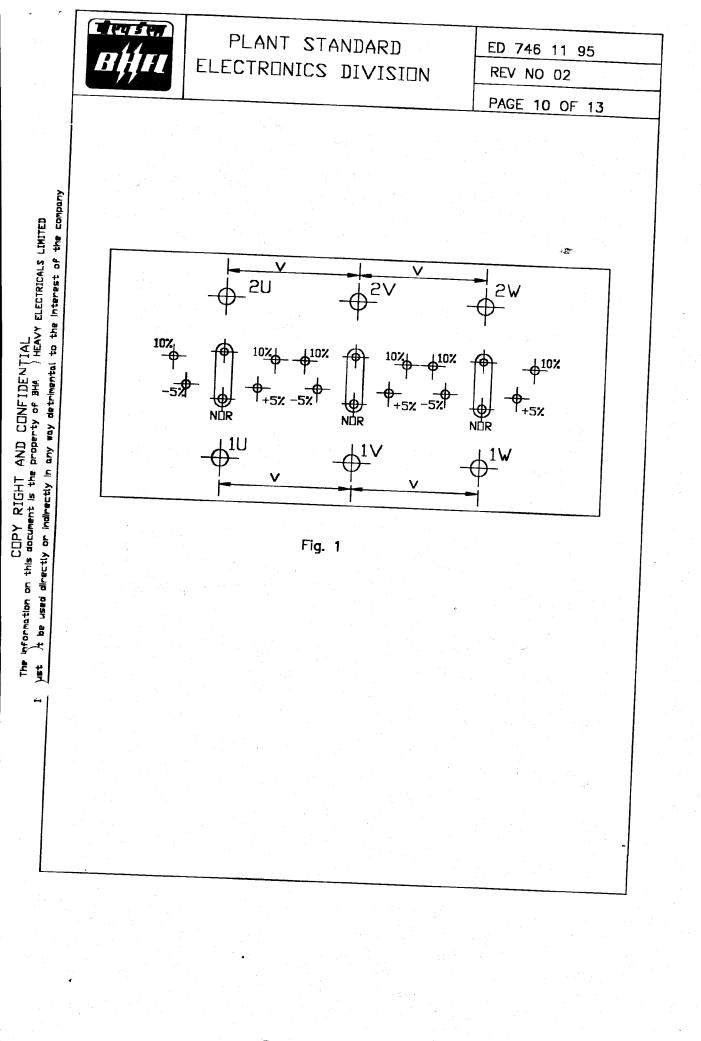
REV NO 02 PAGE 9 OF 13

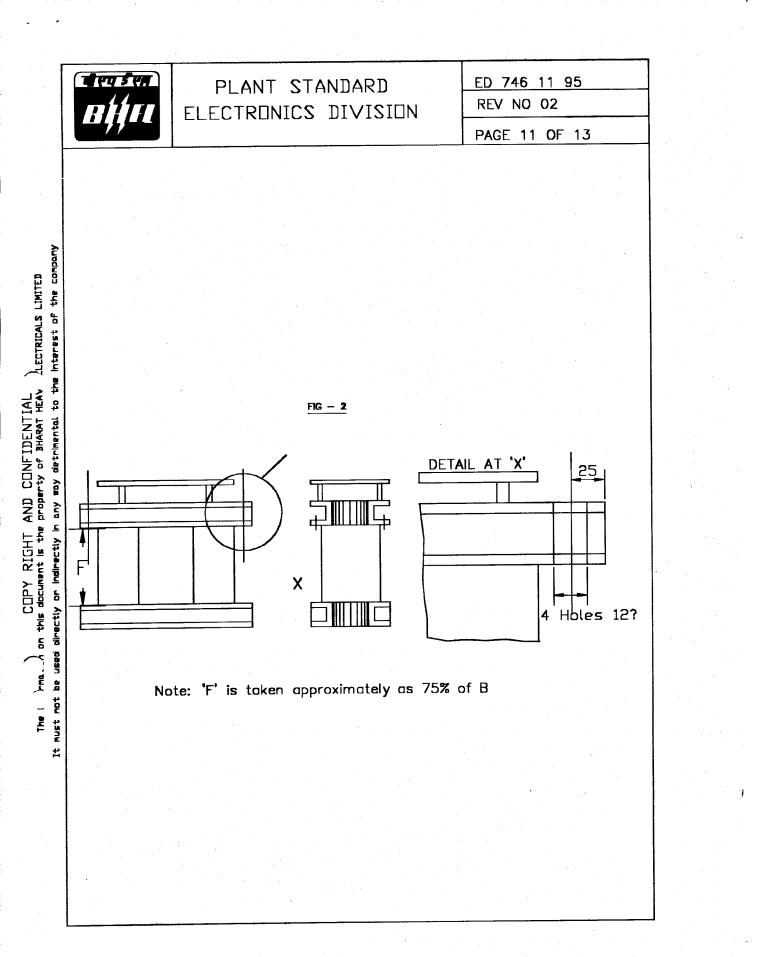
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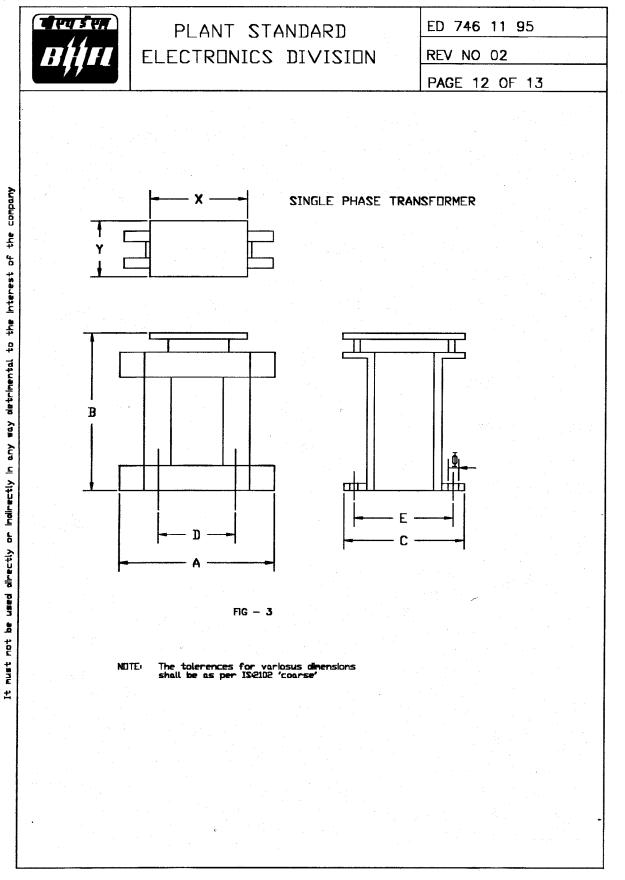
A4 - 15

FIGURE 4

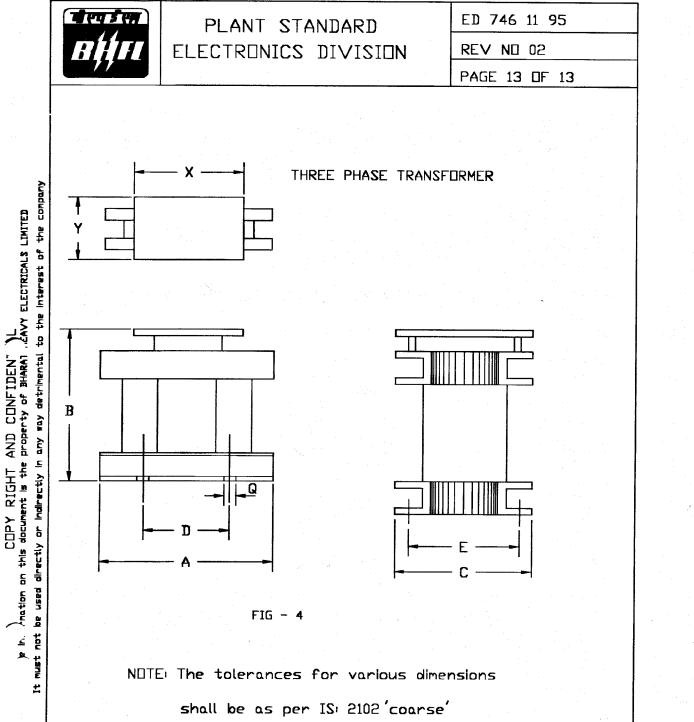
	•	THR	EE PHA	SE TRA	NSI	FORMER			
TYPE	KVA	A	В	С		KXE	0	X	Y
TT-01 TT-02	0.25 0.05	250 280	220 250	150 190		150X100 200X150	10	230 250	
TT-03 TT-04	1.00 1.50	300 300	280 320	200 · 200		200X150 200X150	10 10	280 300	160 180
TT-05 TT-06	2.00 2.50	320 340	300 350	200 200		200X150 200X150	10 10	300 300	180 180
TT-07 TT-08	3.00 4.00	380 400	350 425	200 250		200X150 250X200	10 10	350 350	180 180
TT-09 TT-10	5.00	450 450	425 480	250 250		250X200 250X200	10 10	350 350	200 200
TT-11	7.70	450 500	480 525	250 250		250X200 300X200	10 10	350 400	200 250
TT-13 TT-14	12.50	620 620	550 600	250 250 250		350X200 350X200	10 10	450 450	250 250 250
TT-15 TT-16	20.00	650 650	600 600	300 300		400X250 400X250	10 10 10	450 450	250 250 250
TT-17 TT-18	30.00	700 700	600 600	300 300 300		400X250 400X250 400X250	10 10 10	450 450 450	250 250 250
TT-19	40.00	700	650	300		400X250	10	450	250
TT-20 TT-21	45.00	700 750	650 650	300		400X250 450X250	10 10	450 500	300
TT-22 TT-23	55.00 60.00	750 750	700 700	300 300		450X250 450X250	10 10	500 500	300 300
TT-24 TT-25	65.00 75.00	750 800	800 850	300 300		450X250 500X300	10 10	500 600	300 300
TT-26 TT-27		800 850	850 900	350 350		500X300 550X300	10 10	600 600	300 300
TT-28 TT-29	160.00		900 1000	400 400		550X300 600X400	10 10	600 600	300 400
TT-31	200.00 250.00	1150		450 600		650X500 650X550	12 12	700 700	550 550
TT-33	300.00 350.00 400.00		1700	600 650 750		700X600 800X600 800X630	12 12 12	750 800 850	600 650 650
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	ANNEXURE-A Date:						
SI No	Commercial Terms Disscussion For ANK BHEL Terms	0000206 (Power Transformer 5 Complied (Yes/No)	(VA) Remarks				
31. NO.			Nellial KS				
1	Payment Terms (100% within 45 days after receipt and acceptance of material)						
2	Penalty (0.5% per week on the basic value of the undelivered quantity max upto 10%)						
3	Delivery time 4 weeks from the date of PO						
4	Price Firm (PVC not acceptable- Prices should be firm till execution of order)						
5	Packing And Forwarding By Supplier						
6	Free Door Delivery at BHEL ESD, Electronic City						
7	Offer Validity (90 days from the tender opening)						
8	Validity of Rate Contract 1 year from the date of award of the contract						
9	Taxes & duties to be mentioned in offer (Applicable GST%)						
10	HSN Code						
11	Warranty 12 months from the date of supply						
12	Documents to be submitted along with offer						
а	Datasheets / Catalogues						
b	Distributor's authorisation certificate, if any						
13	Documents to be submitted along with supply of items.Confirmation for the same is required in technical offer.						
а	Test certificate/ Repots						
b	Datasheets / Catalogues						
с	Warranty Certificate						

	PRICE BID							
	Price	bid - AN	K000020	<u>)6</u>				
SI. No.	Description	Quantity (No)	Currency	Unit Price	Total Price	Remarks		
1	DR0491227040 Power Transformers 5kVA	159						
2	GST (if applicable indicating %)	159						
~ ~	Total cost including equipment and applicable taxes (in figures)	159						
	Total cost including equipment and applicable taxes (in words)							