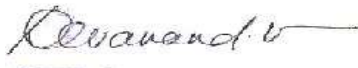

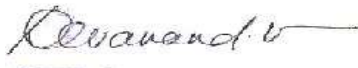

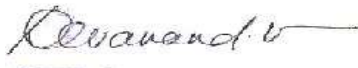



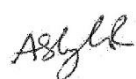
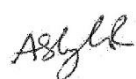
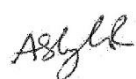
 A4-10	<h1>Pre-Qualification Criteria</h1>		TE / 445 / PQC/CP Rev. : 01 Page: 01 of 01							
		Clause:										
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<ol style="list-style-type: none"> Bidder should have a clean track record. i.e. the Bidder should not be under hold or blacklisted by any of the BHEL units / any Govt. of India PSU / Govt of India as on bid submission date. Supporting Document: A self-declaration shall be Shall be furnished with the Offer. The bidder shall be an Original Equipment Manufacturer (OEM) of Canned Pump OR authorized by OEM for supply to Indian Region. Supporting Document: <ol style="list-style-type: none"> Proof of OEM/ Valid authorization Letter from OEM. Shall be furnished with the Offer. The bidder shall be an approved (RDSO/Indian Railways) supplier of Pump for usage in BHEL make Traction Converters of propulsion system. Bidder shall supply Pumps as per BHEL Purchase Specification and shall be suitable for propulsion system of Indian Railway application. Supporting Document: <ol style="list-style-type: none"> Proof of supply such as Invoice / P.O. copy shall be furnished with the Offer. Vendor should have achieved minimum annual Turnover of INR 1.25 CR during each of the last 3 years. Supporting Document: Certificate from Chartered Accountant in this regard should be submitted along with the offer. <p>Note:</p> <p>1) Clause wise confirmation to above PQC shall be mandatorily submitted with Offer in format- Annexure- A</p> <p>Offers without same will be summarily rejected and Bidder's Technical offers / proposals will not be evaluated.</p>										
			<table border="1"> <tr> <td data-bbox="231 1758 890 1937" rowspan="2"> REVISIONS: 01: Clause updated </td> <td colspan="3" data-bbox="890 1758 1528 1937"> APPROVED BY  DEVANAND.V </td> </tr> <tr> <td data-bbox="890 1937 1114 2101"> PREPARED BY  J Shukla </td> <td data-bbox="1114 1937 1332 2101"> ISSUED 445 </td> <td data-bbox="1332 1937 1528 2101"> DATE 18.10.2022 </td> </tr> </table>				REVISIONS: 01: Clause updated	APPROVED BY  DEVANAND.V			PREPARED BY  J Shukla	ISSUED 445
REVISIONS: 01: Clause updated	APPROVED BY  DEVANAND.V											
	PREPARED BY  J Shukla	ISSUED 445	DATE 18.10.2022									

Annexure -A

Name Of the Vendor					
Address & Contact No.					
BHEL Registration No.					
RFQ Detail					
PQC Compliance					
PQC Clause No.	Clause Description	Complied	Supporting Document Detail		Remarks
		Yes/No	Detail	Doc. No.	
1					
2					
3					
4					
Signature and Seal of Vendor					

		<div><div><div>बि एच ई एल</div><div></div><div>A4-10</div></div></div>	<div>Ref : PS/445/2655</div> <div>Rev. : 01</div> <div>Page : 01 of 03</div>								
<div>COPY RIGHT AND CONFIDENTIAL</div> <div>THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.</div>		<div>PURCHASE SPECIFICATION</div> <div>FOR</div> <div>COOLANT PUMP</div>									
		<div>REVISIONS : 01: Pump Type updated.</div>	<div>APPROVED BY</div> <div></div> <div>DEVANAND.V</div> <table><tr><td>PREPARED BY</td><td>ISSUED</td><td>DATE</td></tr><tr><td> AN</td><td>445</td><td>22/11/22</td></tr></table>			PREPARED BY	ISSUED	DATE	 AN	445	22/11/22
PREPARED BY	ISSUED	DATE									
 AN	445	22/11/22									



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General

The Centrifugal Pump is used as Coolant Circulating Pump of Traction Converter . The MOC of all wetted parts shall be SS 304/316 . The Pump shall be foot mounted and as per the dimensions indicated in the drawing enclosed in Page 3 of 3. Pump should have a provision for checking the direction of Rotation.

The Pump shall be one of following types:

- a) Canned Motor
- b) Magnetically coupled

Parameters:

Shut Off Pressure : 2.3 to 3 Bar
Operating Pressure (Head): 20.3 Mtrs WC
Operating Flow : 7 CMH
Operating Temperature : 70 Deg C
Fluid : DM water + Ethylene Glycol (70 :30)
Suction/Discharge port : 1",150lbs,Rf Flange

Motor: 415 V /3 Phase/50 Hz

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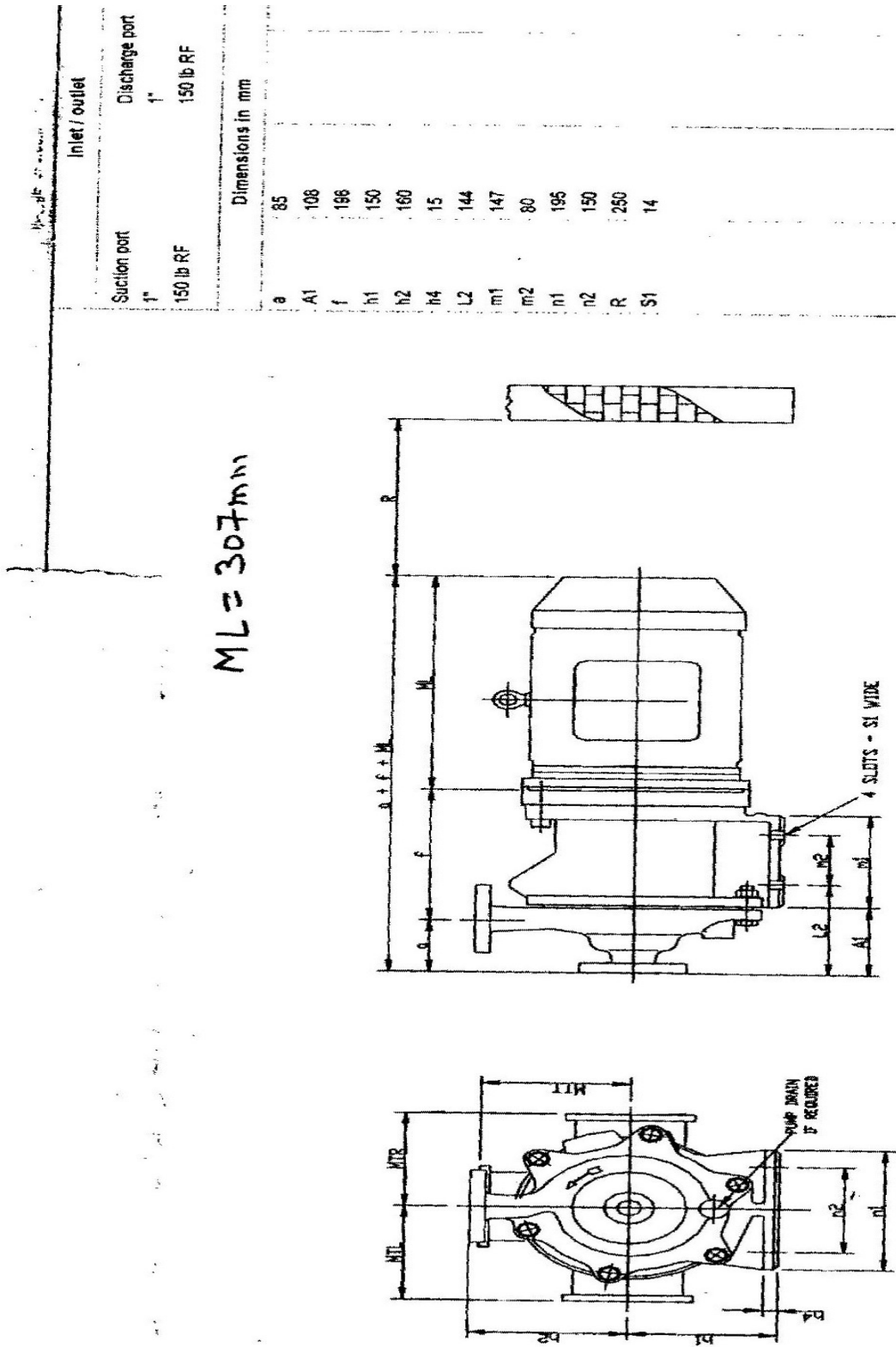
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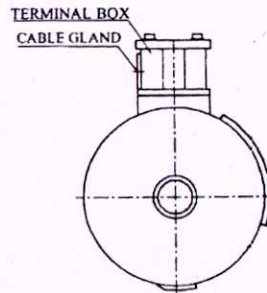
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TERMINAL BOX
CABLE GLAND



FLOW INDICATOR

4 NOS, #16
ON 79 PCD

DELIVERY

MOTOR

CASING

⑤ SUCTION

4 NOS, 016
ON 79 PCD


4 NOS, #14x30
(SLOT)

A diagram of a rectangular box. The height is labeled as 10. The width of the top face is labeled as 150. The length of the front face is labeled as 228.

SL. NO.	TECHNICAL DATA
01	TYPE HORIZONTAL CANNED MOTOR PUMP
02	MODEL BA32-125/1.8H/RC/02
03	FLOW 7 M ³ /Hr.
04	HEAD 20.8 M
05	SUC x DLY 25x25MM
06	MOTOR 1.8KW,(2900 RPM)
07	FULL LOAD CURRENT 4.1A
08	STARTING CURRENT 16A
09	DUTY S1-CONTINUOUS
10	METHOD OF STARTING DOL
11	TYPE OF ENCLOSURE TOTALLY ENCLOSED SELF COOLED
12	INSULATION CLASS 'H'
13	PROTECTION OF T.BOX IP 66/55
14	PUMPING LIQUID ETHYLENE GLYCOL WATER
15	TEMP OF LIQUID 70°C
16	BEARINGS SIC/ CARBON GRAPHITE
17	CABLE CABLE GLAND PROVIDED
18	SLEEVES TUNGSTEN CARBIDE/SIC
19	HYD TEST PRESSURE 5 Bar
20	MATERIAL OF CONSTRUCTION SS 304 (FOR ALL WET PARTS)
21	PAINT RAL 5012
22	TOTAL WEIGHT 40Kg (Approx)

2. ದೇವಾನಂದ್, ಉಪ ಪ್ರಧಾನ ಸ್ವಾಮ್ಯಾಧಾರಿ/ಟ್ರಾಕ್ಟರ್ ಎಂಜಿ.
 ವಿ. ದೇವಾನಂದ್, ಉಪ ಮಾಹಾಬಂಧಕ/ಡ್ರೈಕ್ಷನ್ ಎಂಜಿ.
 V. DEVANAND, DGM /TRACTION ENGG.
 108/109 MYSORE ROAD BENGALURU-560026

CUSTOMER : M/S BHEL BANGALORE

DO NOT SCALE DRG.		ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED			
UNSPECIFIED TOLERANCES IS 2102		CLEAN UP VV ROUGHING VV MACHINE FINISH VV GRINDING FINISH		MATL : AS PER BOM	DRAWN NG CHECKED DR
					SCALE NTS
SUPERSEDES		WT IN KG. :		APPD	DR DATE
GA OF PUMP				USED ON	BHEL BLR
				SHEET NO. 1 of 1	REV: 04
FLOW ORG. PUMPS PVT LTD				DRG. NO.	
Devarachikkanehalli, Bangalore & Kanakapura, Ramanagara				CMP 14001	