



Pre-Qualification Criteria

TE / 445 / PQC/CP

Rev. : 01

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Clause:

- 1) 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.
- 2) The bidder shall be an Original Equipment Manufacturer (OEM) of Canned Pump OR authorized by OEM for supply to Indian Region.
Supporting Document:
 - 1) Proof of OEM/ Valid authorization Letter from OEM. Shall be furnished with the Offer.
- 3) 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:
 - 1) Proof of supply such as Invoice / P.O. copy shall be furnished with the Offer.
- 4) 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.

Note:

- 1) Clause wise confirmation to above PQC shall be mandatorily submitted with Offer in format- Annexure- A
Offers without same will be summarily rejected and Bidder's Technical offers / proposals will not be evaluated.

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					



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PURCHASE SPECIFICATION FOR COOLANT PUMP

REVISIONS :
01: Pump Type updated.

APPROVED BY

DEVANAND.V

PREPARED BY

AN

ISSUED

445

DATE

22/11/22



A4-11

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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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A4-11

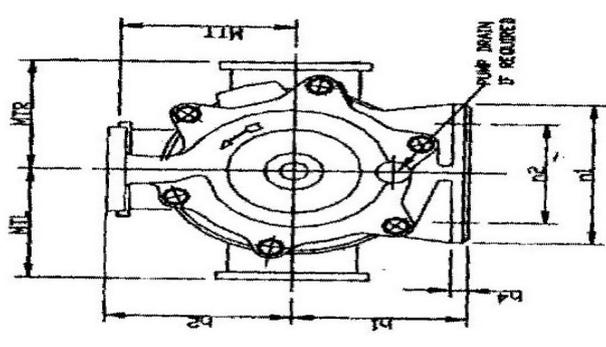
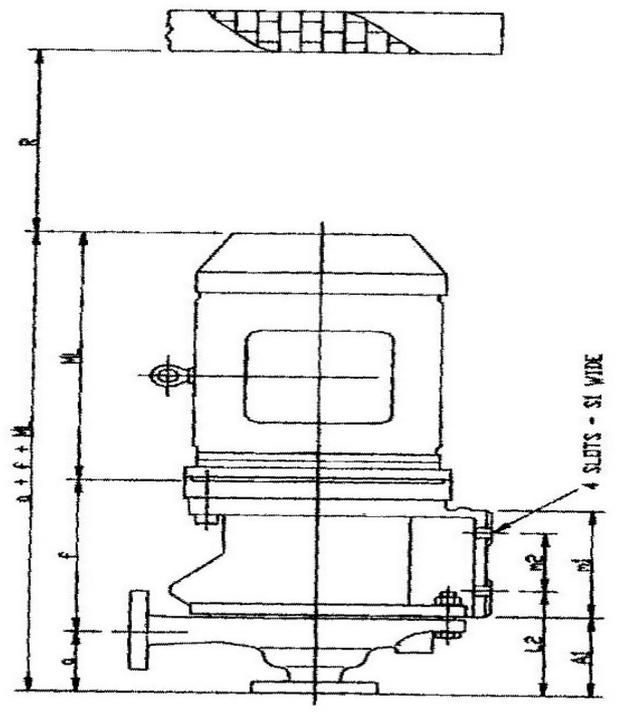
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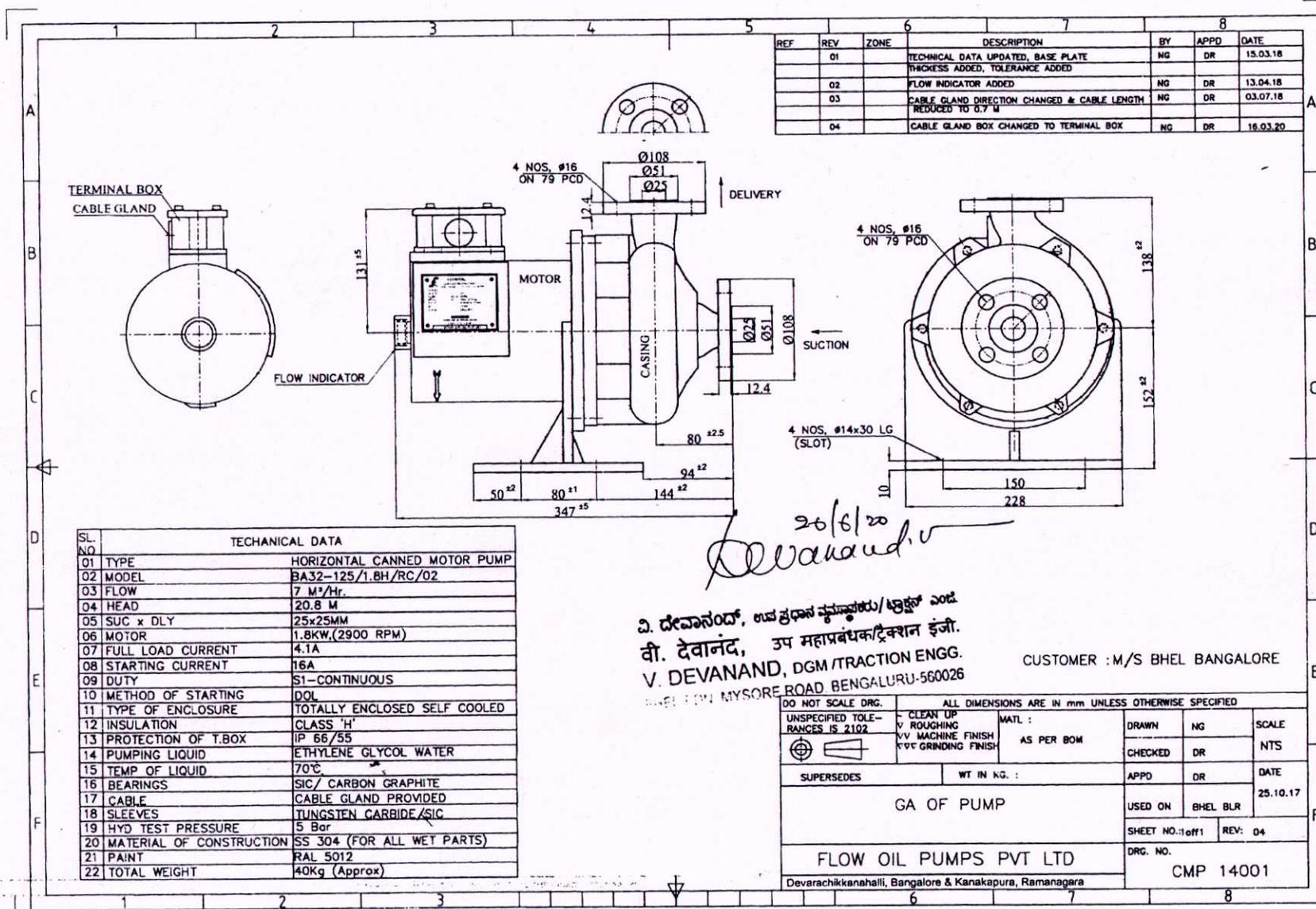
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Inlet / outlet	
Suction port	1" 150 lb RF
Discharge port	1" 150 lb RF

ML = 307mm

Dimensions in mm	
a	85
A1	108
f	198
h1	150
h2	160
h4	15
L2	144
m1	147
m2	80
n1	195
n2	150
R	250
S1	14





REF	REV	ZONE	DESCRIPTION	BY	APPD	DATE
	01		TECHNICAL DATA UPDATED, BASE PLATE THICKNESS ADDED, TOLERANCE ADDED	NG	DR	15.03.18
	02		FLOW INDICATOR ADDED	NG	DR	13.04.18
	03		CABLE GLAND DIRECTION CHANGED & CABLE LENGTH REDUCED TO 0.7 M	NG	DR	03.07.18
	04		CABLE GLAND BOX CHANGED TO TERMINAL BOX	NG	DR	16.03.20

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)

26/6/20
Devanand
 ವಿ. ದೇವಾನಂದ್, ಉಪ ಪ್ರಧಾನ ಮ್ಯಾನೇಜರ್/ಟ್ರಾಕ್ಷನ್ ಎಂಜಿ.
 ವಿ. ದೇವಾನಂದ್, ಉಪ ಮಾಹಿತಿ/ಟ್ರಾಕ್ಷನ್ ಇಂಜಿ.
 V. DEVANAND, DGM /TRACTION ENGG.
 MYSORE ROAD BENGALURU-560026

CUSTOMER : M/S BHEL BANGALORE

DO NOT SCALE DRG.		ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED			
UNSPECIFIED TOL- RANGES IS 2102	CLEAN UP V ROUGHING VV MACHINE FINISH VVV GRINDING FINISH	MATL : AS PER BOM	DRAWN	NG	SCALE
			CHECKED	DR	NTS
SUPERSEDES	WT IN KG. :	APPD	DR	DATE	
GA OF PUMP			USED ON	BHEL BLR	25.10.17
FLOW OIL PUMPS PVT LTD			SHEET NO. 1 of 1	REV: 04	
Devarachikkanahalli, Bangalore & Kanakapura, Ramanagara			DRG. NO.	CMP 14001	