

Detailed Specification

Enquiry:MM/172/G30975

Contact Details

Name: Binduja Menon
Phone: 0484 2568253 , 0484 2568204
Email ID: binduja@factltd.com

Please submit your offer for supply of the following items as per the instructions, technical specifications and other terms and conditions specified herein/ attached.

Note:



1. The delivery period mentioned in the BoQ is our indicative requirement. You may offer your earliest delivery period.



Please refer our above referred enquiry number in all correspondence.

SL No.	Material Code	Detailed Specification/s	Quantity	Unit of Measure
1	901166000	Design,Manufacture and supply pump as per attached datasheet and drawing. DATASHEET NO.: UCTS/DS/205/2024-04 R0 DRAWING NO. : ASC-6-105 R0	1	Number

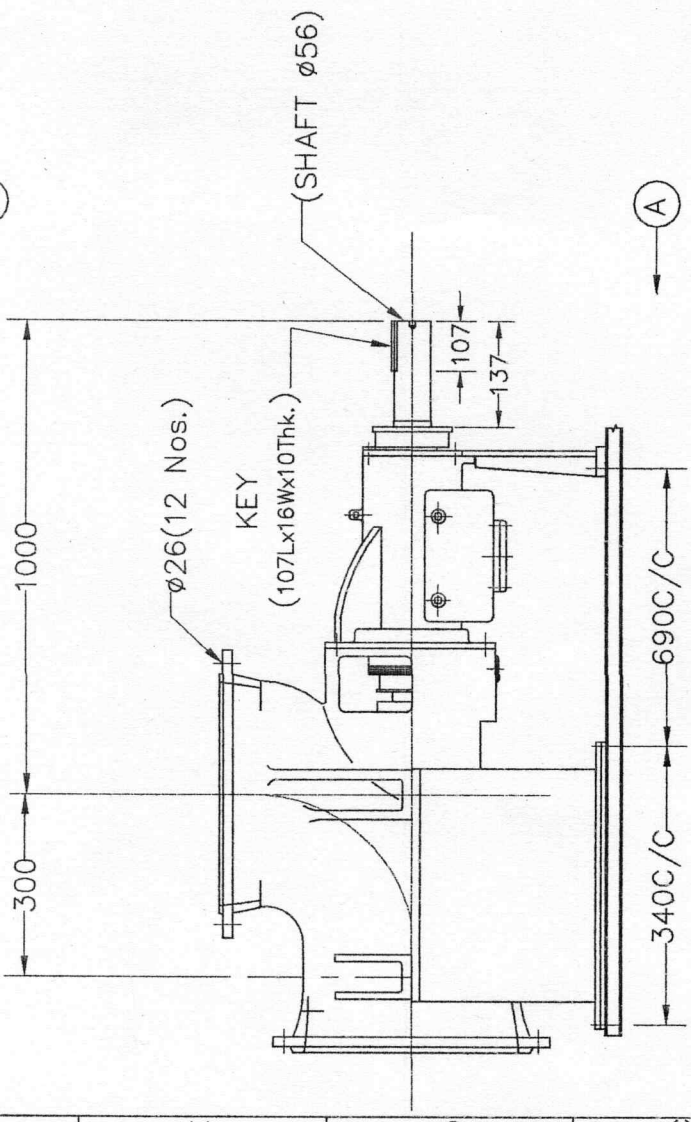
SPECIAL CONDITIONS

- Pump should be as per DATASHEET NO.: UCTS/DS/205/2024-04 R0 & DRAWING NO.: ASC-6-105 R0.
 - Dimensional GA drawing and MOC, Performance curves of offered pumps shall be submitted along with the offer.
 - Pump shall be provided with the following:
 - Suitable lifting aids such as eyebolts, lugs, jackscrew etc. to facilitate disassembly and handling.
 - Cast in or permanently attached arrow indicating the direction of rotation.
 - A corrosion resistant Nameplate shall be permanently attached to indicate Manufacturer's name, Serial no & Model No, Rated capacity & head, Speed in RPM, Drivers rating etc.
 - MTC from government approved lab showing chemical composition & physical properties shall be furnished along with the dispatched documents.
 - The item shall be guaranteed against defective material and poor workmanship for a period of one year from date of commissioning or 18 months from the date of delivery, whichever is earlier. The original Guarantee / Warrantee Certificate shall be furnished along with the dispatch documents.
 - Performance and hydraulic test reports conducted on the pump.
 - Pre-dispatch inspection (PDI) shall be done by FACT / FACT authorized agency(TPI) at vendor's works before dispatch. All testing facilities, tools, tackles and measuring instruments to be under vendor's scope. Scope of TPI is as follows:
 - Verification of material test certificates and dimensional inspection
 - Witnessing and verification of performance tests based on performance curves and hydro tests on the offered pump with suitable test motor.
 - Witnessing of Vibration and Sound level test (< 85 dB)
 - Witnessing of bearing check, Mechanical seal check, clearance check and casing inspection during dismantling inspection immediately after performance tests.
- Cost of PDI shall be borne by FACT

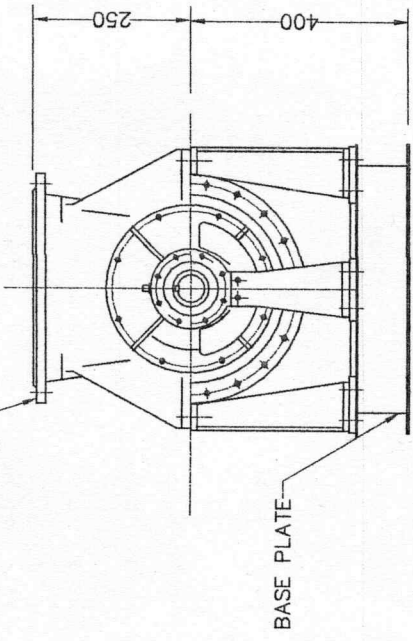
DATA SHEET		V 9006 P1 PUMP		UCTS/DS/205/2024-04 R0 PAGE 1 OF 2	
Applicable to : <input checked="" type="checkbox"/> Proposal <input type="checkbox"/> Purchase <input type="checkbox"/> As built					
CUSTOMER	THE FERTILISERS AND CHEMICALS TRAVANCORE LTD		LOCATION	NAS PLANT, UDYOGAMANDAL COMPLEX	
EQUIPMENT	AMMONIUM SULPHATE LIQUOR PUMP		EQUIPMENT No.	V 9006 P1	
SERVICE	CIRCULATION OF AMMONIUM SULPHATE LIQUOR		NO. OF PUMPS REQUIRED	ONE	
PUMP TYPE	HORIZONTAL CENTRIFUGAL PUMP		DESIGN CODE	API 610 Rev 10	
MANUFACTURER	VENDOR TO SPECIFY		PUMP MODEL	VENDOR TO SPECIFY	
OPERATING CONDITIONS					
FLUID HANDLED	AMMONIUM SULPHATE LIQUOR		CAPACITY RATED (m ³ /hr)	500	
PUMPING TEMPERATURE (MAX) °C	65		PUMPING TEMPERATURE (NORMAL) °C	58	
SPECIFIC GRAVITY	1.33		DIFFERENTIAL HEAD (m)	3	
SUCTION PRESSURE (Kg/cm ² g)	0.67		DISH. PRESSURE (Kg/cm ² g)	1.07	
VISCOSITY (CP)	2		NPSH REQUIRED (m)	VENDOR TO SPECIFY	
DUTY	CONTINUOUS		LOCATION	OUTDOOR WITH ROOF	
NPSH AVAILABLE (m)	8		DRIVE HP	11 KW	
VAPOUR PRESSURE (Kg/cm ²)	0.126		SPEED (RPM)	1485	
CONSTRUCTION					
CASING MOUNT/SPLIT/TYPE	VENDOR TO SPECIFY		TYPE CODE	VENDOR TO SPECIFY	
IMPELLER TYPE	OPEN IMPELLER		IMPELLER DIA (mm)	VENDOR TO SPECIFY	
SUCTION FLANGE SIZE (mm)	VENDOR TO SPECIFY		RATING	VENDOR TO SPECIFY	
DISCHARGE FLANGE SIZE (mm)	VENDOR TO SPECIFY		RATING	VENDOR TO SPECIFY	
MECHANICAL SEAL REQUIRED	YES	TYPE: VENDOR TO SPECIFY	MAKE: VENDOR TO SPECIFY	MODEL: VENDOR TO SPECIFY	
COUPLING DETAILS	TYPE : SPACER TYPE FLEXIBLE COUPLING		MAKE: VENDOR TO SPECIFY	MODEL: VENDOR TO SPECIFY	
BEARING TYPE/ DETAILS	DRIVE END	VENDOR TO SPECIFY	NON DRIVE END	VENDOR TO SPECIFY	
GLAND PLATE	AISI 316		DETAILS OF SPACER	VENDOR TO SPECIFY	
LUBRICATION OIL	SS220 GRADE		TESTING/INSPECTION CODE	API 610	
PERFORMANCE TEST	REQUIRED		PERFORMANCE CURVE	CORRECTED TO WORKING FLUID	
MATERIAL OF CONSTRUCTION					
CASING	ASTM A 743Gr. CF3M		IMPELLER	ASTM A 743Gr. CF3M	
SHAFT	ASTM A216 TYPE 316L		SHAFT SLEEVE	ASTM A216 TYPE 316L	
VENDOR'S SCOPE: DESIGN, MANUFACTURE, INSPECTION, TESTING & SUPPLY OF PUMP AND ACCESSORIES					
			<i>Arjit Kumar Singh</i>	<i>[Signature]</i>	<i>[Signature]</i>
0	09.01.2025	FOR ENQUIRY	ARJIT KUMAR SINGH	SYAMJITH P	JAISON XAVIER
REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY
FACT Udyogamandal Complex - Technical Services Department				 	

DATA SHEET		V 9006 P1 PUMP		UCTS/DS/205/2024-04 R0 PAGE 2 OF 2	
NOTES/SPECIAL CONDITIONS:					
1)	PUMP SHALL HAVE RADIAL SUCTION AND AXIAL DISCHARGE.				
2)	THE EXISTING SUCTION & DISCHARGE LINES ARE 250 NB SIZE. THE PUMP SHALL BE SUITABLE FOR THE SAME.				
3)	THIS DATA SHEET SHALL BE FILLED WITH DEVIATIONS (IF ANY) AND RETURNED BY THE VENDOR ALONG WITH THE OFFER.				
4)	PERFORMANCE TEST CERTIFICATES, HYDRAULIC AND MATERIAL TEST CERTIFICATES ARE TO BE FURNISHED ALONG WITH SUPPLY.				
5)	PUMP CASING SHALL BE PROVIDED WITH A DRAINING PORT FOR FLUSHING PURPOSE.				
6)	BEARINGS SHOULD HAVE ONLINE GREASING/LUBRICATION PROVISION.				
7)	GA & CROSS SECTIONAL DRAWINGS WITH BOM SHALL BE SUBMITTED ALONG WITH OFFER.				
8)	THREE COPIES OF MAINTENANCE/OPERATING MANUAL SHALL BE SUPPLIED ALONG WITH SUPPLY.				
9)	MAKE, MODEL NUMBER, SIZE, API PLAN, CROSS SECTIONAL DRAWING WITH MOC ETC, OF THE MECHANICAL SEAL SHALL BE PROVIDED WITH THE OFFER. MOC OF THE OFFERED MECHANICAL SEAL SHALL BE SUITABLE FOR THE WORKING FLUID SPECIFIED.				
10)	PUMP GENERAL ARRANGEMENT DRAWING IS ATTACHED ALONG WITH THIS DOCUMENT FOR REFERENCE. VENDOR SHALL NOTE THAT PUMP DIMENSIONS, BOLT HOLE POSITION OF PUMP, SUCTION/DISCHARGE FLANGE DETAILS, SHAFT LENGTH ETC, OF THE NEWLY OFFERED PUMP SHALL BE SUITABLE TO BE INSTALLED WITH MINIMAL SITE MODIFICATIONS.				
			<i>Ajithkumar Singh</i>	<i>[Signature]</i>	<i>[Signature]</i>
0	09.01.2025	FOR ENQUIRY	ARJIT KUMAR SINGH	SYAMJITH P	JAISON XAVIER
REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY
FACT Udyogamandal Complex - Technical Services Department					 

(A)



10" ANSI 150#
RF FLANG
(BOTH SUCTION AND
DELIVERY SIDE)



SECTION A-A



THE FERTILISERS AND CHEMICALS TRAVANCORE LTD.,
UDYOGAMANDAL COMPLEX

DRAWN BY: <i>Vyackh</i>	NAS	SCALE: NTS
DESD BY:		DATE: 23-12-24
CHKD BY: Syamjith		SHEET No. 1 OF 1
APPD BY: Jaison Xavier		DRG No.
		ASC-6-105
		R0

NOTES:-
1. ALL DIMENSIONS ARE IN MM.
2. DIMENSIONS ARE GIVEN AS PER SITE CONDITIONS ONLY
3. FOR MORE DETAILS REF DATA SHEET: UCTS/DS/205/2024/01-R0

PRE-QUALIFICATION CRITERIA FOR BIDDERS

The Bidders must satisfy the following pre-qualification criteria for supply of Pump at FACT-Udyogamandal Complex

Sl.No.	Conditions	Documents required
1	Bidder should be original equipment manufacturer (OEM)/Authorised supplier / Authorised distributor of Horizontal Centrifugal Pump	a) In case of OEM self-declaration shall be submitted along with details of manufacturing facility available. b) In case of Authorised supplier/ Authorised distributor, relevant documentary evidence from OEM authorizing to quote for this tender shall be submitted.
2	Bidder should have successfully supplied Horizontal Centrifugal pump of the OEM having minimum rated capacity of 500 m ³ /hr to any Refinery/ Chemical/ Petrochemical industry in India, during the last 7 years ending as on the date of this enquiry.	a) Copy of Purchase orders or work orders along with proof of Completion – such as Invoice/Dispatch documents/ Inspection Release Note / Completion Certificate from Client. b) Certificate from the client for satisfactory performance of Horizontal Centrifugal Pump supplied through above Purchase Order.
3	Bidder shall have successfully completed orders of value as below for supply of Horizontal Centrifugal Pumps. i. One order with value not less than Rs.8.5 Lakhs OR ii. Two Orders each having value not less than Rs. 5 Lakhs OR iii. Three orders each having value not less than Rs. 4 Lakhs.	Copy of Purchase Order or Work Orders along with proof of completion – such as Invoice/ Dispatch documents/ Inspection Release Note / Completion Certificate from Client.
4	a) Average annual turnover of the bidder for the last three financial years ending on 31-03-2024 shall be at least Rs. 20/- Lakhs or above and b) Annual turnover for each year shall be at least Rs. 3 /- lakhs or above during the last three financial years ending on 31-03-2024	Self-attested copies of audited financial statements (Profit & Loss Account and Balance Sheet) for the last three financial years ending on 31-03-2024

NOTE: -

- 1) In case the bidder is submitting FACT P.O as testimonials for meeting PQ criteria, the bidder needs to mention only the P.O. No. and completed value of work for PQ verification. Document submission is not mandatory in such cases.
- 2) IMPORTANT: In case of ambiguity or incomplete or non submission of required relevant documents along with bid, FACT reserves the right, at its option, to reject the Bidders Bid without assigning any reason and without notice.

COMPLIANCE STATEMENT

Sl. No.	Terms	Bidder confirmation
1	Pump should be as per DATASHEET NO.: UCTS/DS/205/2024-04 R0 & DRAWING NO.: ASC-6-105 R0.	
2	Dimensional GA drawing and MOC, Performance curves of offered pumps shall be submitted along with the offer.	
3	<p>Pump shall be provided with the following:</p> <p>a. Suitable lifting aids such as eyebolts, lugs, jackscrew etc. to facilitate disassembly and handling.</p> <p>b. Cast in or permanently attached arrow indicating the direction of rotation.</p> <p>c. A corrosion resistant Nameplate shall be permanently attached to indicate Manufacturer's name, Serial no & Model No, Rated capacity & head, Speed in RPM, Drivers rating etc.</p>	
4	MTC from government approved lab showing chemical composition & physical properties shall be furnished along with the dispatched documents.	
5	The item shall be guaranteed against defective material and poor workmanship for a period of one year from date of commissioning or 18 months from the date of delivery, whichever is earlier. The original Guarantee / Warrantee Certificate shall be furnished along with the dispatch documents.	
6	Performance and hydraulic test reports conducted on the pump.	
7	<p>Pre-dispatch inspection (PDI) shall be done by FACT / FACT authorized agency(TPI) at vendor's works before dispatch. All testing facilities, tools, tackles and measuring instruments to be under vendor's scope. Scope of TPI is as follows:</p> <p>a) Verification of material test certificates and dimensional inspection</p> <p>b) Witnessing and verification of performance tests based on performance curves and hydro tests on the offered pump with suitable test motor.</p> <p>c) Witnessing of Vibration and Sound level test (< 85 dB)</p> <p>d) Witnessing of bearing check, Mechanical seal check, clearance check and casing inspection during dismantling inspection immediately after performance tests.</p> <p>Cost of PDI shall be borne by FACT</p>	
8	Please mention shortest possible delivery period.	
9	Please confirm : Price Basis – FOR FACT Stores (as per Gem T & C)	
10	Please confirm : Taxes and Duties - The Price offered in GEM is all inclusive of TAX. (as per Gem T & C)	
11	<p>Please confirm :</p> <p>Payment Terms : 100% payment will be released within 10 days of the issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills as per GEM terms and conditions. (as per Gem T & C)</p>	
12	<p>Please confirm :</p> <p>Liquidated Damages: As per GeM – “@ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any</p>	

Note : All the above columns shall be filled properly, without leaving blanks. Please upload / return this document duly filled-in, along with your bid.