



Bid Number/बोली क्रमांक (बिड संख्या)<sup>:</sup> GEM/2023/B/3609350 Dated/दिनांक : 23-06-2023

# Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण		
Bid End Date/Time/बिड बंद होने की तारीख/समय	07-07-2023 14:00:00	
Bid Opening Date/Time/बिड खुलने की तारीख/समय	07-07-2023 14:30:00	
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	60 (Days)	
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Chemicals And Fertilizers	
Department Name/विभाग का नाम	Department Of Chemicals And Petrochemicals	
Organisation Name/संगठन का नाम	Hindustan Organic Chemicals Limited	
Office Name/कार्यालय का नाम	Ambalamugal,ernakulam	
Total Quantity/कुल मात्रा	1	
ltem Category/मद केटेगरी	P 2004 WASH WATER CIRCULATING PUMP ASSEMBLY	
BOQ Title/बीओक्यू शीर्षक	P 2004 WASH WATER CIRCULATING PUMP ASSEMBLY COMPLETE	
Years of Past Experience Required for same/similar service/उर्न्हों/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)	
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/	Yes	
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	Νο	
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria, Past Performance, Bidder Turnover, Certificate (Requested in ATC), OEM Authorization Certificate, OEM Annual Turnover, Additional Doc 1 (Requested in ATC), Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer	
Past Performance/विगत प्रदर्शन	80 %	
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No	
Type of Bid/बिड का प्रकार	Two Packet Bid	

Bid Details/बिड विवरण				
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days			
Inspection Required (By Empanelled Inspection Authority / Agencies pre- registered with GeM)	Νο			
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation			
EMD Detail/ईएमडी विवरण				
Required/आवश्यकता	No			
Required/आवश्यकता	No			
<b>Splitting/विभाजन</b> Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.				
MII Purchase Preference/एमआईआई खरीद वरीयता				
MII Purchase Preference/एमआईआई खरीद वरीयता	Yes			
MSE Purchase Preference/एमएसई खरीद वरीयता				
MSE Purchase Preference/एमएसई खरीद वरीयता	Yes			

1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.

2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

3. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

4. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

5. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

6. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

## P 2004 WASH WATER CIRCULATING PUMP ASSEMBLY

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Abhilash M S	682302,HINDUSTAN ORGANIC CHEMICALS LTD, AMBALAMUGAL ERNAKULAM	1	30

# Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

### 1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

#### 2. Generic

After award of contract – Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 5 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 10 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing– the delivery period shall be refixed without LD for the period of delay in approval of Drawing.

#### 3. Generic

**Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

#### 4. Generic

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

#### 5. Generic

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

#### 6. Generic

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

#### 7. Generic

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

#### 8. Generic

**Manufacturer Authorization:**Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

#### 9. Generic

#### **OPTIONAL SITE VISIT:**

1. The Bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne by the Bidder.

COST SHALL BE BORNE BY THE BIDDER

2. The Bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the Bidder will release and indemnify the Buyer and Consignee against all liabilities arising out of such visit including death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such visit.

3. The Bidder shall not be entitled to hold any claim against Buyer for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

#### 10. Generic

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

#### 11. Generic

The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price:

Cost should be all inclusive as per GeM terms like, GST, P&F, Freight, TPI etc..

### 12. Generic

1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.

2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.

3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

#### 13. Generic

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

i) The Seller fails to comply with any material term of the Contract.

ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.

iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period

and/or to replace/rectify any rejected or defective Material(s) promptly.

iv) The Seller becomes bankrupt or goes into liquidation.

v) The Seller makes a general assignment for the benefit of creditors.

vi) A receiver is appointed for any substantial property owned by the Seller.

vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

### 14. Generic

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

### 15. Scope of Supply

Scope of supply (Bid price to include all cost components) : Only supply of Goods

### 16. Turnover

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

### 17. Turnover

OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

### 18. **OEM**

IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

### 19. Purchase Preference (Centre)

Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

### 20. Service & Support

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

### 21. Service & Support

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

### 22. Service & Support

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

### 23. Inspection

**Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance: Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC):

M/S. BUREAU VERITAS (INDIA) PVT. LTD

Post Receipt Inspection at consignee site before acceptance of stores: M/s.HINDUSTAN ORGANIC CHEMICALS LTD

### 24. Inspection

Pre-dispatch inspection at Seller premises (Fee/Charges to be borne by the BUYER): Before dispatch, the goods will be inspected by Buyer / Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at Seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specifications. Fee/Charges taken by the External inspection Agency and any external laboratories testing charges shall be borne by the Buyer. For in-house testing, the Sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. The goods would be dispatched to consignee only after clearance in pre-dispatch inspection. Consignee's right of rejection as per GTC in respect of the goods finally received at his location shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by Buyer/ Consignee or its Nominated External Inspection Agency prior to the goods' shipment. While bidding, the sellers should take into account 7 days for inspection from the date of email offering the goods for inspection. Any delay in inspection beyond 7 days shall be on the part of the buyer and shall be regularised without Liquidated Damages.

When there is requirement of submission the advance sample, the seller shall inform the buyer promptly through emails about the date of submission of sample to the buyer nominated Inspection agency.

### 25. Certificates

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

### 26. Certificates

Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.

### 27. Certificates

The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

### 28. Warranty

Warranty period of the supplied products shall be as given in specifications from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

#### 29. Warranty

Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

#### 30. Warranty

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 5 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imberse the cost of such service / rectification to the Buyer.

#### 31. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

### **DOCUMENTS SATISFYING ELIGIBILITY CRITERIA**

- 1. DULY SIGNED AND STAMPED TENDER TERMS AS PER ANNEXURE- II.IF ANYDEVIATION, PL.INDIC ATE SEPARATELY
- 2. DULY FILLED AND SIGNED COMMERCIAL TERM FORMAT AS PER ANNEXURE III-A,B,C,D
- 3. DULY FILLED AND SIGNED BID SECURITY DECLARATION & CLAUSE COMPLIANCE AS PER ANNEX URE -IV,V
- 4. THE SUPPLIER SHOULD SUBMIT DRAWINGS & QAP FOR APPROVAL BEFORE MANUFACTURING
- 5. HYDRAULIC TEST RUN CERTIFICATES, PERFORMANCE CURVES, MOTOR TEST RUN DETAILS, MO TOR SPECIFICATIONS, MECHANICAL SPECIFICATION & DRAWINGS, SPARE PARTS LIST, OPERATI ON MANUAL, AS BUILT DRAWING AND FOUNDATION DRAWINGS, GUARANTEE CERTIFICATES... S HOULD BE PROVIDED ALONG WITH SUPPLY.
- 6. DETAILED TECHNICAL SPECIFICATION OR CATALOGUE OF OFFERED PRODUCT SHOULD BE SULB ITTED ALONG WITH TECHNICAL BID
- 7. THIRD PARTY INSPECTION : PLEASE NOTE THAT THIRD PARTY INSPECTION WILL BE APPLICABL E IN THIS PROCUREMENT. THIRD PARTY INSPECTION IS REQUIRED FOR 100% QUANTITY. OUR A PPROVED THIRD PARTY AND THEIR DETAILS ARE AS UNDER.

M/S. BUREAU VERITAS (INDIA) PVT. LTD, JOMER SYMPHONY, D/NO. 48/1744C39 UNIT 5, 6TH FLOOR, PONNURUNNI NORTH VYTTILA P.O, KERALA - 682019.

#### **CONTACT PERSONS**

MR. PETER PRAVEEN, EXECUTIVE

PHONE : +91 9895111743/53

MOB: <u>+91 9895005639</u>,

E MAIL : PETER.PRAVEEN@BUREAUVERITAS.COM

MATERIALS WILL HAVE TO BE INSPECTED AT THE VENDOR'S WORKS PRIOR TO DESPATCH AND SHALL BE DESPATCHED ONLY AFTER THE INSPECTION & APPROVAL BY THE TPI. HOWEVER THE INSPECTION CHARGES TO THE THIRD PARTY SHALL BE BORNE BY HOCL AS PER HOCL'S AGREE MENT WITH THE THIRD PARTY. HOWEVER WHATEVER COST INCURRING FOR INSPECTION OF M ATERIAL (LIKE NDT ETC. IF APPLICABLE) SHOULD BE BORNE BY THE SUPPLIER. HENCE AS PER T HE GEM TENDER TERMS THE RATE QUOTED SHALL BE ALL INCLUSIVE

### 32. Buyer Added Bid Specific ATC

Buyer uploaded ATC document <u>Click here to view the file</u>.

# Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

- 1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
- 2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
- 3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.

- 4. Creating BoQ bid for single item.
- 5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
- 6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
- 7. Floating / creation of work contracts as Custom Bids in Services.
- 8. Seeking sample with bid or approval of samples during bid evaluation process.
- 9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
- 10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
- 11. Creating bid for items from irrelevant categories.
- 12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
- 13. Reference of conditions published on any external site or reference to external documents/clauses.
- 14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश को बिडर से खरीद वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

### ---Thank You/धन्यवाद---



# HINDUSTAN ORGANIC CHEMICALS LIMITED (A GOVERNMENT OF INDIA ENTERPRISE) AMBALAMUGAL, ERNAKULAM DISTRICT, PIN – 682 302 PHONE: (0484) 2720911

Item Number	Item Description	Qty	Unit
	P 2004 - WASH WATER CIRCULATING PUMP COMPLETE ASSEMBLY		
	CONSISTING OF BEARINGS, BEARING HOUSING, CASING, SHAFT,		
	IMPELLER, IMPELLER NUT, SLEEVE, WEAR RINGS, COUPLING,		
	COUPLING GUARDS, MECHANCIAL SEAL, BASE PLATE & MOTOR ETC.		
	AS PER THE DATA SHEET ATTACHED.		
	PUMP TYPE: HORIZONTAL CENTRIFUGAL		
	CAPACITY: 4.5 M3/HR		
	SUCTION PRESSURE: 43.2 KG/CM2G (63.3 MAX)		
	DISCHARGE PRESSURE: 52 KG/CM2G		
	DIFFERENTIAL PRESSURE: 8.8 KG/CM2G		
	LIQUID: WATER		
	TEMP: 38°C		
	MINIMUM AVAILABLE NPSH: AMPLE		
	SPEED: 2950 RPM		
	SUCTION NOZZLE: 1.5" x 600#		
	DISCHARGE NOZZLE: 1" x 600#		
	MOC: ALL THE WETTED PARTS SHOULD BE IN SS316		
4	MECHANICAL SEAL: DURAMETALLIC / FLOWSERVE / EAGLE	1	NICC
1	BURGMANN /JOHNCRANE	1	NOS
	MOTOR SPECIFICATION REQUIRED:		
	MOTOR MAKE: SIEMENS / KIRLOSKAR / BHARATH BIJILEE / ABB /		
	CROMPTON		
	GREAVES		
	DUTY: S1 (CONTINUOUS DUTY)		
	TYPE OF PROTECTION: FLAME PROOF (EXD)		
	INGRESS PROTECTION: IP55 MINIMUM		
	MOTOR EFFICIENCY CLASS REQUIRED: IE3 OR ABOVE		
	CONNECTION: DELTA		
	METHOD OF STARTING: DIRECT ON LINE		
	TEMP. CLASS: T3 MIN.		
	GAS GROUP: II B		
	INSULATION CLASS: B OR ABOVE		
	POWER SUPPLY: 415V, 3PH, 50HZ		
	MOUNTING: HORIZONTAL FOOT MOUNTING, IM1001-B3		
	AMBIENT TEMPERATURE: 40 DEGC MINIMUM		
	EXISTING CABLE SIZE: 1 RUN, 3Cx2.5 sq.mm YWY		



### NOTE:

- THE SUPPLIER SHOULD SUBMIT DRAWINGS & QAP FOR APPROVAL BEFORE MANUFACTURING
- HYDRAULIC TEST RUN CERTIFICATES, PERFORMANCE CURVES, MOTOR TEST RUN DETAILS, MOTOR SPECIFICATIONS, MECHANICAL SPECIFICATION & DRAWINGS, SPARE PARTS LIST, OPERATION MANUAL, AS BUILT DRAWING AND FOUNDATION DRAWINGS, GUARANTEE CERTIFICATES... SHOULD BE PROVIDED ALONG WITH SUPPLY.
- DETAILED TECHNICAL SPECIFICATION OR CATALOGUE OF OFFERED PRODUCT SHOULD BE SULBITTED ALONG WITH TECHNICAL BID
- <u>THIRD PARTY INSPECTION</u> : PLEASE NOTE THAT THIRD PARTY INSPECTION WILL BE APPLICABLE IN THIS PROCUREMENT. THIRD PARTY INSPECTION IS REQUIRED FOR 100% QUANTITY. OUR APPROVED THIRD PARTY AND THEIR DETAILS ARE AS UNDER.

M/S. BUREAU VERITAS (INDIA) PVT. LTD, JOMER SYMPHONY, D/NO. 48/1744C39 UNIT 5, 6TH FLOOR, PONNURUNNI NORTH VYTTILA P.O, KERALA – 682019.

### CONTACT PERSONS

 MR. PETER PRAVEEN, EXECUTIVE PHONE : <u>+91 9895111743</u>/53 MOB : <u>+91 9895005639</u>, E MAIL : <u>PETER.PRAVEEN@BUREAUVERITAS.COM</u>

MATERIALS WILL HAVE TO BE INSPECTED AT THE VENDOR'S WORKS PRIOR TO DESPATCH AND SHALL BE DESPATCHED ONLY AFTER THE INSPECTION & APPROVAL BY THE TPI. HOWEVER THE INSPECTION CHARGES TO THE THIRD PARTY SHALL BE BORNE BY HOCL AS PER HOCL'S AGREEMENT WITH THE THIRD PARTY. HOWEVER WHATEVER COST INCURRING FOR INSPECTION OF MATERIAL (LIKE NDT ETC. IF APPLICABLE) SHOULD BE BORNE BY THE SUPPLIER. HENCE AS PER THE GEM TENDER TERMS THE RATE QUOTED SHALL BE ALL INCLUSIVE

PUMP SPECIFICATION DATA SHEET IS ATTACHED.

		B - WASH WATER CIRCULATING PUMP OPERATING CONDITIONS		
LIQUID : WATER				
ANALYSIS				
SPECIFIC GRAVITY: 0.994	VAPOUR PRESSURE : 0.01Kg/cm2		VISCOSITY: 0.684 Cp	
TEMPERATURE: 38°C		PH VALUE		
CAPACITY MAXIMUM: 4.5 m3/hr		NORMAL :4.5 m3/hr	MINIMUM	
SUCTION PRESSURE: 43.2kg/cm2	G (63.3 MAX)	DISCHARGE PRESSURE : 52 Kg/cm2g		
DIFFERENTIAL PRESSURE:8.8 Kg/		MINIMUM AVAILABLE NPSH : AMPLE		
COOLING WATER AVAILABLE	0	PRESS : 4.5 Kg/cm2 g	TEMP :32°C	
SEAL INJECTION WATER AVAILABI	F	PRESS	TEMP	
NUMBER WORKING : ONE		NUMBER STAND BY : ONE	12.00	
		SPECIFICATIONS		
<u>PU</u>	MP SPECIFICATION	MOTOR SPECIFICATI	ION	
		MOTOR : SQUIRREL CAGE INDICATION MOTOR		
MAKERS NO				
PERFORMANCE CURVE NO		TYPE : FLAMEPROOF(EXD)		
DUTLINE DRAWING NO		GAS GROUP : IIB		
OUNDATION DRAWING NO		TEMP CIASS : T3 MINIMUM		
MOTOR SPECIFICATION NO		POWER : KW		
SAFE MIN FLOW		FRAME : 112M		
PUMP TYPE : HORIZONTAL CENT	RIFUGAL	CONNECTION : DELTA		
NPSH(REQD)		SPEED : 2943 rpm		
PUMP SHUT OFF PRESSURE		METHORD OF STARTING : DIRECT ON LINE		
ROTATION (FACING PUMP COUPL	ING)	POWER SUPPLY : 415V,3PH,50HZ		
MPELLER TYPE : CLOSED		INSULATION CLASS : CIASS B OR ABOVE		
MPELLER DIA		DUTY : CONTINOUS(S1)		
MIN MAX	DESIGN	MOUNTING : HORIZONTAL FOOT MOUNTING, IM1001-B3		
SPEED:2950 RPM		INGRESS PROTECTION : IP55 MINIMUM		
CASING SPLIT: RADIAL		EXISTING CABLE SIZE : 1 RUN, 3Cx2.5 sq.mm YWY		
SHAFT SEAL TYPE: SINGLE MECH	ANICAL SEAL	MOTOR EFFICIENCY CLASS REQUIRED : IE3 OR ABOVE		
SUCTION NON BORE		AMBIENT TEMPERATURE : 40 DEGC MINIMUM		
SUCTION FLANGE STD: ANSI CL 6	00 RF (1.5"x600#)	ABSORBED SHAFT HP AT NORMAL FLOW EFFICIENCY		
DELIVERY NOM BORE		ABSORBED SHAFT HP AT MAX. FLOW		
DELIVERY FLANGE STD: ANSI CL 6	00 RF (1"x600#)	RECOMMENDED MOTOR HP		
HYD.TEST PRESSURE		MOTOR TORQUE REQD. AT START		
BASE PLATE TYPE		MOTOR TORQUE REQD. AT FULL LOAD		
PERFORMANCE TEST D AT SITE		WR VALUE OR DRIVEN MACHINE		
🗆 AT SH	OP	COUPLING TYPE: GEAR OR FLEXIBLE DISC		
MAKE DURAMETALLIC		COUPLING GUARD		
		DRIVE DIRECT / ELECTRIC MOTOR DIRECT COUPLED		
		LUBRICATION OF PUMP BEARINGS OIL/GREASE/LIQUID		
		STUFFING BOX/MECH.SEAL SEALANT		
		SEALANT INJECT PRESSURE		
		WATER COOLED PARTS		
		BEARINGS		
		STUFFING BOX		
		MECHANICAL SEAL		
		GEAR BOX		
		MOTOR SUPPLIED BY: PURCHASER		
		COUPLING SUPPLIED BY: PUMP VENDOR		
			GFOUNDATION BOLTS SUPPLIED BY:PUMP VENDOR	
		MOTOR HALF COUPLING FITTED BY:PURCHASER		
		COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER		
		COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP		
		COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR		
		COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME		
	MATERI	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION		
	MATERI	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON		
SHAFT : RECOMMEND	MATERI	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316		
SHAFT : RECOMMEND MPELLER: CAST IRON	MATERI	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR	MATERI	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR		COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % (		COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % ( VECK BUSH		COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % ( NECK BUSH NSPECTION CODE	ZR	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BR		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % ( NECK BUSH NSPECTION CODE	ZR	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR ZASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % ( NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI UARD SPECIFICATION		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI PUMP ALSO WILL COMPLY WITH "	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI UARD SPECIFICATION		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI PUMP ALSO WILL COMPLY WITH "	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI UARD SPECIFICATION		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI PUMP ALSO WILL COMPLY WITH "	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI UARD SPECIFICATION		
CASING: STEEL SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % CR NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI PUMP ALSO WILL COMPLY WITH REMARKS	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI UARD SPECIFICATION		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI PUMP ALSO WILL COMPLY WITH "	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI DARD SPECIFICATION		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI PUMP ALSO WILL COMPLY WITH "	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI DARD SPECIFICATION		
SHAFT : RECOMMEND MPELLER: CAST IRON SHAFT SLEEVES: 11-13 % CR CASING WEAR RINGS: 11-13 % CR MPELLER WEAR RINGS: 11-13 % NECK BUSH NSPECTION CODE REQUIRED NO.OF DRAWINGS ANI PUMP ALSO WILL COMPLY WITH "	CR D DATA SHEETS REF. STAND	COMPLETE PUMP/DRIVE UNIT ALIGNED BY: PURCHASER NET SHIPPING WEIGHT PUMP NET SHIPPING WEIGHT MOTOR SHIPPING VOLUME ALS AND STANDARDS OF CONSTRUCTION BALANCE DISC BALANCE PISTON MECHANICAL SEAL METAL PARTS - SS316 GLAND FOLLOWER INTERNAL BEARINGS OTHER COMPONENTS IN CONTACT WITH LIQUID : GLAND, (V)V (Q) QUENCH, (D) DRAIN, V&D, GLAND THROTTLE BUSHING: BRI DARD SPECIFICATION		

		ASH WATER CIRCULATING PUMP MPLIANCE REPORT	
SI No.	Description	HOCL Requirement (Minimum)	Compliance
Design	conditions & Operating conditions		-
1	Liquid	Water	
2	Specific Gravity	0.994	
3	Vapour Pressure	0.01Kg/cm2	
4	Viscosity	0.684 Cp	
5	Temperature	38°C	
6	Capacity	4.5 m3/hr	
7	Suction Pressure	43.2kg/cm2 G (63.3 MAX)	
8	Discharge Pressure	52 Kg/cm2g	
9	Differential Pressure	8.8 Kg/cm2g	
10	Minimum Available Npsh	AMPLE	
11	Cooling Water Available - Pressure	4.5 Kg/cm2 g	
12	Cooling Water Available - Temperature	32°C	
13	Seal Injection Water Available	-	
14	Number Working	ONE	
15	Number Stand By	ONE	
16	Pump Type	CENTRIFUGAL - HORIZONTAL TYPE	
17	Pump Shut Off Pressure	-	
18	Impeller Type	CLOSED TYPE	
19	Impeller Dia - Minimum	-	
20	Impeller Dia - Maximum	-	
21	Speed	2950 RPM	
22	Casing Split	RADIAL	
23	Shaft Seal Type	SINGLE MECHANICAL SEAL	
24	Seal Make	Durametallic	
Nozzle	Connections	1	
1	Suction Nozzle Flange Size	1.5" x 600#	
2	Suction Flange Standard	ANSI CL 600 RF	
3	Discharge Nozzle Flange Size	1" x 600#	
4	Discharge Flange Standard	ANSI CL 600 RF	
Motor S	Specification Minimum Required		
1	Motor	Squirrel Cage Indication Motor	
2	Туре	Flameproof(Exd)	
3	Gas Group	IIB	
4	Temp Class	T3 Minimum	
5	Power	ĸw	
6	Frame	112M	
7	Connection	Delta	
8	Speed	2943 RPM	
9	Methord of Starting	Direct on Line	
10	Power Supply	415V,3PH,50Hz	

P-2004 A & B - WASH WATER CIRCULATING PUMP COMPLIANCE REPORT				
SI No.	Description	HOCL Requirement (Minimum)	Compliance	
11	Insulation Class	Class B or Above		
12	Duty	Continous(S1)		
13	Mounting	Horizontal Foot Mounting, IM1001-B3		
14	Ingress Protection	IP55 Minimum		
15	Existing Cable Size	1 Run, 3Cx2.5 Sq.Mm Ywy		
16	Motor Efficiency Class Required	IE3 or Above		
17	Ambient Temperature	40 DegC Minimum		
18	Coupling Type	Gear or Flexible Disc		
19	Coupling Guard	API 671		
20	Drive Direct / Electric Motor Direct Coupled			
21	Lubrication of Pump Bearings Oil/Grease/Liquid			
22	Stuffing Box/Mech.Seal Sealant			
23	Sealant Inject Pressure			
24	Water Cooled Parts			
25	Bearings			
26	Stuffing Box			
Materia	als and Standards of Construction (All the w	vetted parts should be in SS316)		
1	Casing	SS316		
2	Shaft	SS316		
3	Impeller	SS316		
4	Shaft Sleeves	SS316		
5	Casing Wear Rings	SS316		
6	Impeller Wear Rings	SS316		
Mechar	nical Seal Metal Parts - SS316			
1	Other components in contact with Liquid - Gland, (V)Vent, (Q) Quench, (D) Drain	V&D		
	Gland Throttle Bushing	Bronze		
2	Pump also will comply with the FEDO's star	dard Specification M.15.82		
3	Remarks			