



فرصت تحویل اسناد به پست حداکثر تا تاریخ :

۹۷/۰۴/۱۵

شرکت پالایش نفت لاوان (سهامی عام)

اداره تدارکات وامور کالا

استعلام فنی

تقاضای شماره : RLD-62589-LA

موضوع خرید : centrifugal sanitary sewage pump



شرکت پالایش نفت لاوان (سهامی عام)

اداره تدارکات وامور کالا

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آدرس پستی : شیراز ، صندوق پستی ۷۱۳۶۵/۵۶۸

خواهشمند است پیشنهادات فنی را به همراه کاتالوگ و جزئیات فنی مربوط به شرح کالا و **با ذکر شماره تقاضا (الزامیست)** به شماره این شرکت نمابر و یا به آدرس ایمیل این شرکت ارسال فرمائید. ضمناً استعلام ها نیازی به نامه اعلام آمادگی ندارد و مستقیماً می توان پیشنهاد فنی ارسال نمود. بدیهی است پس از بررسی پیشنهادات فنی مراتب جهت ارسال پیشنهاد مالی در پاکت دربسته از طریق نمابر به حضور ارسال خواهد شد.

ردیف	شرح کالا	واحد	تعداد
01	Centrifugal Sanitary Sewage Pump P-3503 C&D ACCORDING TO ATTACHED SPEC	st	2
02	Submersible Sanitary Sewage Pump P-3501 C&D ACCORDING TO ATTACHED SPEC	st	2

لطفاً پیشنهادات فنی خود را یا بصورت ایمیل یا به صورت فکس ارسال نمایید و از ارسال به دو روش جداً خودداری گردد. مکاتبات به صورت ایمیل می بایست نامه رسمی ممه‌ور به مهر آن شرکت به صورت PDF پیوست گردد.

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آدرس پستی: شیراز، صندوق پستی ۷۱۳۶۵/۵۶۸



Lavan Oil Refining Company

Submersible Sanitary Sewage Pump

P-3501 C&D

Prepared by:

General Engineering Department

Scope:

National Iranian Oil Company, Lavan Refinery, intends to purchase “two” Submersible Sanitary Sewage Pump as listed below , “to empty of Sanitary Sewage inlet pond” located at “ Lavan Island”.

References:

- 1. Project Specification*
- 2. I.P.S. Material & Equipment Standard for Heavy Duty Centrifugal Pumps, IPS-M-PM-105.*
- 3. API STD. 610, Latest Edition.*
- 4. API STD. 682, Latest Edition*

Design & Site Conditions:

Pumps shall be designed, fabricated and tested in accordance with the above references, and to be suitable for following site conditions:

<i>Max. Ambient Temperature</i>	<i>50 °C</i>
<i>Min. Ambient Temperature</i>	<i>0 °C</i>
<i>Average Relative Humidity</i>	<i>95%</i>
<i>Site Elevation</i>	<i>Sea Level</i>
<i>Climatic Condition</i>	<i>Tropical, Dusty</i>

Extent of Work:

Vendor shall be responsible for the engineering and supply of the entire unit, consisting Pump, Baseplat & Coupling.

General Specifications:

- 1. The equipment will be installed outdoor.*

2. *Inspection should be done by client approved Third Party Inspection Company. A copy of quality plan should be provided.*
3. *Vented suction chamber to prevent vapor binding shall be provided.*
4. *Sealed gland or stuffing box to eliminate air intrusion shall be provided.*
5. *Supplier shall provide spare parts for 2 years of continuous operation.*
6. *Pump shall be explosion proof.*
7. *Vendor should specify minimum submergence required for said pumps.*
8. *Motor to be sized to end of curve operation.*
9. *All accessories (Couplings & etc.) shall be supplied by pump supplier.*
10. *Portable electrical protection box shall be considered.*

Guarantee:

Vendor shall guarantee that equipment is free from fault in design, workmanship and material, and is of sufficient size , capacity and made of proper material to fulfill satisfactorily the operating condition specified.

Should any defect in design, material, workmanship or operation characteristics develop after 12 months of operation or after 24 months following shipment from supplier's plant, whichever occurs later, vendor guarantee to make all necessary or desirable alterations repairs and replacement free of charge.

If the defect or failure to function cannot be corrected, vendor guarantees to replace promptly, free of charge, said equipment or to remove the equipment and refund the full purchase price.

Documents:

Pump supplier shall prepare and submit to Lavan Refinery following documents for said pumps:

5 copies of Technical Manuals including Technical Data, Catalogues, Instruction & Maintenance Manual, Spare parts List and two copies of Final Approved Drawings.

Service	Sanitary Water	
Quantity	Two ⁽²⁾	
Operating Pump - Item	Submersible Portable Centrifugal Pump P-3501C/D	
Driver, Operating Pump-Item	Electro-Motor MP-3501C/D	
Enclosure	IP68	
Insulation	Class F	
Temp Rise	Class B	
Suction Nozzle / Rating / Facing / Position	150# / R.F / Top	
Discharge Nozzle / Rating / Facing / Position	150# / R.F / Top	
Pumping Temperature (°C)	Min	15
	Normal	30
	Max	42
Vapor Pressure (bar)	0.042	
Viscosity (C_P)	2.001	
Density (Kg/m³)	1010	
Capacity (M³/Hr)	Normal	9
	Rated	11
Suction Pressure (bar)	Min	0.07
	Max	0.26
Discharge Pressure (bar)	1.11	
Differential Pressure (bar)	1.06	
Differential Head (m)	10.6	
NPSH (m)	NA (Flooded)	
Casing Material	Carbon Steel (Case Hardening)	
Shaft Material	AISI 316	
Impeller Material	AISI 316	
Casing/Impeller Wear Ring	AISI 316	
Mechanical Seal	See Note-1	
Surface penetration and paint	Manufacture standard	
Lubrication	Oil	
Coupling	Manufacturer	
NOTES:		
1) Vendor Shall Review and The Mechanical Seal and Seal Code Based on API-682 Latest Edition. Mechanical Seal shall be self-cooling type.		
2) Suitability of material shall be reviewed, verified and confirmed by the vendor based on the specified service. All Material Shall be specified according to ASTM Standard. Other part material that is not specified in above table shall be as per API 610 Annex H Class S-8.		

National Iranian Oil Company
Lavan Refinery Co.

Project Specification

Rev.: 0

Sheet 5 of 4

By: M.R. & M.P.

Date: 3-Sep-2017



Lavan Oil Refining Company

Centrifugal Sanitary Sewage Pump

P-3503 C&D

Prepared by:

General Engineering Department

Centrifugal Pumps Specification

Scope:

National Iranian Oil Company, Lavan Refinery, intends to purchase “two” Centifugal Sanitary Sewage Pump as listed below , “to empty of Sanitary Sewage outlet pond” located at “Lavan Island”.

- *Centrifugal Pump (P-3503 C/D)*

References:

1. *Project Specification*
2. *I.P.S. Material & Equipment Standard for Heavy Duty Centrifugal Pumps, IPS-M-PM-105.*
3. *API STD. 610, Latest Edition.*
4. *API STD. 682, Latest Edition*

Design & Site Conditions:

Pumps shall be designed, fabricated and tested in accordance with the above references, and to be suitable for following site conditions:

<i>Max. Ambient Temperature</i>	<i>50 °C</i>
<i>Min. Ambient Temperature</i>	<i>0 °C</i>
<i>Average Relative Humidity</i>	<i>95%</i>
<i>Site Elevation</i>	<i>Sea Level</i>
<i>Climatic Condition</i>	<i>Tropical, Dusty</i>

Extent of Work:

Vendor shall be responsible for the engineering and supply of the entire unit, consisting Pump, Baseplat & Coupling.

General Specifications:

The equipment will be installed outdoor.

General Specifications:

- 1. Inspection should be done by client approved Third Party Inspection Company. A copy of quality plan should be provided.*
- 2. Vented suction chamber to prevent vapor binding shall be provided.*
- 3. Sealed gland or stuffing box to eliminate air intrusion shall be provided.*
- 4. Supplier shall provide spare parts for 2 years of continuous operation.*
- 5. Pump shall be explosion proof.*
- 6. Vendor should specify minimum submergence required for said pumps.*
- 7. Motor to be sized to end of curve operation.*
- 8. All accessories (Couplings & etc.) shall be supplied by pump supplier.*

Guarantee:

Vendor shall guarantee that equipment is free from fault in design, workmanship and material, and is of sufficient size , capacity and made of proper material to fulfill satisfactorily the operating condition specified.

Should any defect in design, material, workmanship or operation characteristics develop after 12 months of operation or after 24 months following shipment from supplier's plant, whichever occurs later, vendor guarantee to make all necessary or desirable alterations repairs and replacement free of charge.

If the defect or failure to function cannot be corrected, vendor guarantees to replace promptly, free of charge, said equipment or to remove the equipment and refund the full purchase price.

Documents:

Pump supplier shall prepare and submit to Lavan Refinery following documents for said pumps:

5 copies of Technical Manuals including Technical Data, Catalogues, Instruction & Maintenance Manual, Spare parts List and two copies of Final Approved Drawings.

Process & Mechanical Data Sheet

Service	SANITARY WATER	
Quantity	Two ⁽²⁾	
Operating Pump - Item	Centrifugal Pump	
Driver, Operating Pump	Electro-Motor MP-3503C/D	
Pump Type	OH	
Suction Nozzle / Rating / Facing / Position	MAX DN-80 / 150# / R.F / Top	
Discharge Nozzle / Rating / Facing / Position	MAX DN-50 / 150# / R.F / Top	
Enclosure	IP68	
Insulation	Class F	
Temp Rise	Class B	
Pumping Temperature (°C)	Min	0
	Normal	30
	Max	50
Vapor Pressure (bar)	0.042	
Viscosity (C_P)	0.798	
Density (Kg/m³)	996	
Capacity (M³/Hr)	Normal	9
	Rated	11
Suction Pressure (bar)	Min	0.07
	Max	0.21
Discharge Pressure (bar)	4.11	
Differential Pressure (bar)	4	
Differential Head (m)	40	
NPSH (m)	NA (Flooded)	
Casing Material	Carbon Steel	
Shaft Material	AISI 316	
Impeller Material	AISI 316	
Mechanical Seal	See Note-1	
Surface preparation and paint	Manufacture standard	
Lubrication	Oil	
Coupling	Manufacturer	

NOTES:

1) Vendor Shall Review and The Mechanical Seal and Seal Code Based on API-682 Latest Edition. Mechanical Seal shall be self-cooling type.

2) Suitability of material shall be reviewed, verified and confirmed by the vendor based on the specified service. All Material Shall be specified according to ASTM Standard. Other part material that is not specified in above table shall be as per API 610 Annex H Class S-8.