

OIL INDIA LIMITED(A Govt. of India Enterprise)
P.O. Duliajan-786602, Assam.

Fax No. 91-374-2800533, E-mail:material@oilindia.in

Tender No. & Date : DFD3961L15/06 20.06.2014Bid Security Amount : INR 0.00 OR USD 0.00
(or equivalent Amount in any currency)**Bidding Type : Single Bid (Composite Bid)**

Bid Closing On : 06.08.2014 at 13:00 hrs. (IST)

Bid Opening On : 06.08.2014 at 13:00 hrs. (IST)

Performance Guarantee : Not Applicable

OIL INDIA LIMITED have issued Limited tenders to following parties for items detailed below. For General Terms & Conditions, please refer to Document No. MM/GLOBAL/01/2005 available in OIL's web site:

Item No./ Mat. Code	Material Description	Quantity	UOM																																													
10 0C000417	<u>Maintenance free Discharge Pulsation Damampener</u> 10. Maintenance free Discharge Pulsation Dampener for CODPs at Makum / Hapjan OCS: A. The offered Maintenance free Discharge Pulsation Dampeners should be suitable for use in the pumps with the following data: I. Pump Type: Triplex, reciprocating single acting. II. Stroke length: 5" III. Plunger Size: 3.5" IV. Suction Pressure: 2-4 KGSCM V. Maximum operating Pressure: 60 Kg KGSCM VI. Rated Discharge: 40 KLPH VII. Pump Inlet Piping Size: 6" (150 MM)NB VIII. Pump Outlet Piping Size: 3" (75 MM)NB IX. Fluid to be handled: Crude Oil. (parameters of two crude oil samples are appended below to act as a guide for design/ selection of equipment) Sample - I <table border="0"> <tr><td>ϕ</td><td>Water Content (% v / v) :</td><td>0.2</td></tr> <tr><td>ϕ</td><td>Density at 15 Deg C :</td><td>0.9063</td></tr> <tr><td>ϕ</td><td>API Gravity at 60 Deg F :</td><td>24.5</td></tr> <tr><td>ϕ</td><td>Pour Point (Deg C) :</td><td>6</td></tr> <tr><td>ϕ</td><td>Wax content , % mass :</td><td>6.4</td></tr> <tr><td>ϕ</td><td>Asphaltene content, % mass :</td><td>0.72</td></tr> <tr><td>ϕ</td><td>Resin content, % mass :</td><td>3.6</td></tr> <tr><td>ϕ</td><td>Viscosity of raw crude by Fann VG Meter [Pv (cp) / Yv (dynes / cm²) :</td><td>33 / 8 at 24 Deg C ; 42 / 13 at 21 Deg C ; 61 / 27 at 18 Deg C</td></tr> </table> Sample - II <table border="0"> <tr><td>ϕ</td><td>Water Content (% v / v) :</td><td>0.4</td></tr> <tr><td>ϕ</td><td>Density at 15 Deg C :</td><td>0.8969</td></tr> <tr><td>ϕ</td><td>API Gravity at 60 Deg F :</td><td>26.2</td></tr> <tr><td>ϕ</td><td>Pour Point (Deg C) :</td><td>26.2</td></tr> <tr><td>ϕ</td><td>Wax content , % mass :</td><td>7.8</td></tr> <tr><td>ϕ</td><td>Asphaltene content, % mass :</td><td>0.32</td></tr> <tr><td>ϕ</td><td>Resin content, % mass :</td><td>3.7</td></tr> </table>	ϕ	Water Content (% v / v) :	0.2	ϕ	Density at 15 Deg C :	0.9063	ϕ	API Gravity at 60 Deg F :	24.5	ϕ	Pour Point (Deg C) :	6	ϕ	Wax content , % mass :	6.4	ϕ	Asphaltene content, % mass :	0.72	ϕ	Resin content, % mass :	3.6	ϕ	Viscosity of raw crude by Fann VG Meter [Pv (cp) / Yv (dynes / cm ²) :	33 / 8 at 24 Deg C ; 42 / 13 at 21 Deg C ; 61 / 27 at 18 Deg C	ϕ	Water Content (% v / v) :	0.4	ϕ	Density at 15 Deg C :	0.8969	ϕ	API Gravity at 60 Deg F :	26.2	ϕ	Pour Point (Deg C) :	26.2	ϕ	Wax content , % mass :	7.8	ϕ	Asphaltene content, % mass :	0.32	ϕ	Resin content, % mass :	3.7	1	NO
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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>ϕ Viscosity of raw crude by Fann VG Meter [Pv (cp) / Yv (dynes / cm²) : 9 / <2 at 30 Deg C; 11 / 2 at 27 Deg C; 14 / 4 at 24 Deg C</p> <p>B. The design / operating principle of the offered Maintenance free Discharge Pulsation Dampeners should such that:</p> <p>I. There should not be any requirement of gas charging.</p> <p>II. There should not be any replaceable elements incorporated whatsoever.</p> <p>C. End connections (flanges) of the offered Maintenance free Discharge Pulsation Dampeners must be 3" (75 MM)NB.</p> <p>D. The limiting length (span) of the offered Maintenance free Discharge Pulsation Dampeners along with suitably rated companion flanges should not be more than 900 MM.</p> <p>E. The offered Maintenance free Discharge Pulsation Dampeners should be supplied along with a pair of suitably rated companion flanges, nuts and bolts.</p> <p>F. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners are compatible for operation with pumps with pump data mentioned in point no "A" above and also with handling liquid as mentioned in point A. IX. above.</p> <p>G. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners are completely maintenance free and there should not be any need of replacement of any elements whatsoever.</p> <p>H. The design and the operating principle of the offered Maintenance free Discharge Pulsation Dampeners should clearly be explained in the offer along with requisite technical details, drawings and literature.</p> <p>I. The offered Maintenance free Discharge Pulsation Dampeners should perform satisfactorily in case of variation of 5% to 10% of the pump operating pressure.</p> <p>J. The offered Maintenance free Discharge Pulsation Dampeners should carry ASME U Code stamp.</p> <p>K. Expected life of maintenance free dampener should not be less than 10(ten) years in normal flow condition. Undertaking against the same to be submitted by the bidder alongwith the bid.</p> <p>L. The requisite installation and operation recommendations to be forwarded for review at our end along with the offer.</p>		
<p>20 0C000417</p>	<p>20. Maintenance free Discharge Pulsation Dampener for Water Injection Pump Sets</p> <p>A. The offered Maintenance free Discharge Pulsation Dampeners should be suitable for use in the pumps with the following data:</p> <p>I. Pump Type: Triplex, reciprocating single acting.</p> <p>II. Stroke length: 6"</p> <p>III. Plunger Size: 2 -3/8"</p> <p>IV. Suction Pressure: 2-4 KGSCM</p> <p>V. Maximum operating Pressure: 140 Kg KGSCM</p> <p>VI. Rated Discharge: 22 KLPH</p> <p>VII. Pump Inlet Piping Size: 4" (100 MM)NB</p> <p>VIII. Pump Outlet Piping Size: 2 ½ " (65 MM)NB</p> <p>IX. Fluid to be handled: Bore Well Water (ranges of parameters of bore well water is appended below to act as a guide for design/ selection of equipment)</p>	1	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p> ☒ Appearance : Turbid ☒ Odor : Normal ☒ Chloride (as Cl) : 5 -8 mg/l ☒ Turbidity (NTU) : 40-90 ☒ pH : 6.6-6.9 ☒ Total Hardness (as CaCO₂) : 80-100 mg/l ☒ Iron : 2.5 - 5.7 mg/l ☒ Total Dissolved solids : 160-180 mg/l ☒ Alkalinity (as CaCO₃) : 125-140 mg/l ☒ Oil and Grease : Nil </p> <p> B. The design / operating principle of the offered Maintenance free Discharge Pulsation Dampeners should such that: I. There should not be any requirement of gas charging. II. There should not be any replaceable elements incorporated whatsoever. </p> <p> C. End connections (flanges) of the offered Maintenance free Discharge Pulsation Dampeners must be 2 ½ " (65 MM)NB. </p> <p> D. The limiting length (span) of the offered Maintenance free Discharge Pulsation Dampeners along with suitably rated companion flanges should not be more than 900 MM. </p> <p> E. The offered Maintenance free Discharge Pulsation Dampeners should be supplied along with a pair of suitably rated companion flanges, nuts and bolts. </p> <p> F. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners are compatible for operation with pumps with pump data mentioned in point no "A" above and also with handling liquid as mentioned in point A. IX. above. </p> <p> G. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners are completely maintenance free and there should not be any need of replacement of any elements whatsoever. </p> <p> H. The design and the operating principle of the offered Maintenance free Discharge Pulsation Dampeners should clearly be explained in the offer along with requisite technical details, drawings and literature. </p> <p> I. The offered Maintenance free Discharge Pulsation Dampeners should perform satisfactorily in case of variation of 5% to 10% of the pump operating pressure. </p> <p> J. The offered Maintenance free Discharge Pulsation Dampeners should carry ASME U Code stamp. </p> <p> K. Expected life of maintenance free dampener should not be less than 10(ten) years in normal flow condition. Undertaking against the same to be submitted by the bidder alongwith the bid. </p> <p> L. The requisite installation and operation recommendations to be forwarded for review at our end along with the offer. </p>		
30 OC000417	<p> 30. <u>Maintenance free Suction Stabilizer for Water Injection Pump Sets.</u> </p> <p> A. The offered Maintenance free Suction Stabilizer should be suitable for use in the pumps with the following data: I. Pump Type: Triplex, reciprocating single acting. II. Stroke length: 6" </p>	1	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>III. Plunger Size: 2 -3/8"</p> <p>IV. Suction Pressure: 2-4 KGSCM</p> <p>V. Maximum operating Pressure: 140 Kg KGSCM</p> <p>VI. Rated Discharge: 22 KLPH</p> <p>VII. Pump Inlet Piping Size: 4" (100 MM)NB</p> <p>VIII. Pump Outlet Piping Size: 2 ½ " (65 MM)NB</p> <p>IX. Fluid to be handled: Bore Well Water (ranges of parameters of bore well water is appended below to act as a guide for design/ selection of equipment)</p> <p>Ø Appearance : Turbid</p> <p>Ø Odor : Normal</p> <p>Ø Chloride (as Cl) : 5 -8 mg/l</p> <p>Ø Turbidity (NTU) : 40-90</p> <p>Ø pH : 6.6-6.9</p> <p>Ø Total Hardness (as CaCO₂) : 80-100 mg/l</p> <p>Ø Iron : 2.5 # 5.7 mg/l</p> <p>Ø Total Dissolved solids : 160-180 mg/l</p> <p>Ø Alkalinity (as CaCO₃) : 125-140 mg/l</p> <p>Ø Oil and Grease : Nil</p> <p>B. The design / operating principle of the offered Maintenance free Suction Stabilizer should such that:</p> <p>I. There should not be any requirement of gas charging.</p> <p>II. There should not be any replaceable elements incorporated whatsoever.</p> <p>C. End connections (flanges) of the offered Maintenance free Suction Stabilizer must be 4" (100 MM)NB.</p> <p>D. The limiting length (span) of the offered Maintenance free Suction Stabilizer along with suitably rated companion flanges should not be more than 900 MM.</p> <p>E. The offered Maintenance free Suction Stabilizer should be supplied along with a pair of suitably rated companion flanges, nuts and bolts.</p> <p>F. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners are compatible for operation with pumps with pump data mentioned in point no #A" above and also with handling liquid as mentioned in point A. IX. above.</p> <p>G. The bidder should certify that the offered Maintenance free Suction Stabilizer is completely maintenance free and there should not be any need of replacement of any elements whatsoever.</p> <p>H. The design and the operating principle of the offered Maintenance free Suction Stabilizer should clearly be explained in the offer along with requisite technical details, drawings and literature.</p> <p>I. The offered Maintenance free Suction Stabilizer should perform satisfactorily in case of variation of 5% to 10% of the pump operating pressure.</p> <p>J. The offered Maintenance free Suction Stabilizer should carry ASME U Code stamp.</p> <p>K. Expected life of maintenance free dampener should not be less than 10(ten) years in normal flow condition. Undertaking against the same to be submitted by the bidder alongwith the bid.</p> <p>L. The requisite installation and operation recommendations to be forwarded for review at our end along with the offer.</p>		

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Item No./ Mat. Code	Material Description	Quantity	UOM
40 0C000417	<p><u>40. Maintenance free Suction Stabilizer</u></p> <p>A. The offered Maintenance free Suction Stabilizer should be suitable for use in the pumps with the following data:</p> <p>I. Pump Type: Triplex, reciprocating single acting.</p> <p>II. Stroke length: 5"</p> <p>III. Plunger Size: 3.5"</p> <p>IV. Suction Pressure: 2-4 KGSCM</p> <p>V. Maximum operating Pressure: 60 Kg KGSCM</p> <p>VI. Rated Discharge: 40 KLPH</p> <p>VII. Pump Inlet Piping Size: 6" (150 MM)NB</p> <p>VIII. Pump Outlet Piping Size: 3" (75 MM)NB</p> <p>IX. Fluid to be handled: Crude Oil. (parameters of two crude oil samples are appended below to act as a guide for design/ selection of equipment)</p> <p style="text-align: center;">Sample - I</p> <p>Ø Water Content (% v / v) : 0.2</p> <p>Ø Density at 15 Deg C : 0.9063</p> <p>Ø API Gravity at 60 Deg F : 24.5</p> <p>Ø Pour Point (Deg C) : 6</p> <p>Ø Wax content , % mass : 6.4</p> <p>Ø Asphaltene content, % mass : 0.72</p> <p>Ø Resin content, % mass : 3.6</p> <p>Ø Viscosity of raw crude by Fann VG Meter [Pv (cp) / Yv (dynes / cm²) : 33 / 8 at 24 Deg C ; 42 / 13 at 21 Deg C ; 61 / 27 at 18 Deg C</p> <p style="text-align: center;">Sample # II</p> <p>Ø Water Content (% v / v) : 0.4</p> <p>Ø Density at 15 Deg C : 0.8969</p> <p>Ø API Gravity at 60 Deg F : 26.2</p> <p>Ø Pour Point (Deg C) : 26.2</p> <p>Ø Wax content , % mass : 7.8</p> <p>Ø Asphaltene content, % mass : 0.32</p> <p>Ø Resin content, % mass : 3.7</p> <p>Ø Viscosity of raw crude by Fann VG Meter [Pv (cp) / Yv (dynes / cm²) : 9 / <2 at 30 Deg C; 11 / 2 at 27 Deg C; 14 / 4 at 24 Deg C</p> <p>B. The design / operating principle of the offered Maintenance free Suction Stabilizer should such that:</p> <p>I. There should not be any requirement of gas charging.</p> <p>II. There should not be any replaceable elements incorporated whatsoever.</p> <p>C. End connections (flanges) of the offered Maintenance free Suction Stabilizer must be 6" (150 MM)NB.</p> <p>D. The limiting length (span) of the offered Maintenance free Suction Stabilizer along with suitably rated companion flanges should not be more than 900 MM.</p> <p>E. The offered Maintenance free Suction Stabilizer should be supplied along with a pair of suitably rated companion flanges, nuts and bolts.</p> <p>F. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners are compatible for operation with pumps with pump data mentioned in point no #A" above and also with handling liquid as mentioned in point A. IX. above.</p>	1	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>G. The bidder should certify that the offered Maintenance free Suction Stabilizer are completely maintenance free and there should not be any need of replacement of any elements whatsoever.</p> <p>H. The design and the operating principle of the offered Maintenance free Suction Stabilizer should clearly be explained in the offer along with requisite technical details, drawings and literature.</p> <p>I. The offered Maintenance free Suction Stabilizer should perform satisfactorily in case of variation of 5% to 10% of the pump operating pressure.</p> <p>J. The offered Maintenance free Suction Stabilizer should carry ASME U Code stamp.</p> <p>K. Expected life of maintenance free dampener should not be less than 10(ten) years in normal flow condition. Undertaking against the same to be submitted by the bidder alongwith the bid.</p> <p>L. The requisite installation and operation recommendations to be forwarded for review at our end along with the offer.</p>		

- Special Notes** :
1. The items shall be brand new, unused & of prime quality. Bidder shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 18 months from date of despatch/shipment or 12 months from date of receipt of the items at site which ever is earlier. The defective materials, if any, rejected by us shall be replaced by the supplier at their own expense. Bidders must confirm the same while quoting.
 2. The minimum FOB/FCA charges in case of partial order for reduced quantity/ items shall have to be indicated by the bidder. In case this is not indicated specifically, the charges quoted would be prorata calculated and the same will be binding on the bidder.
 3. Expected life of maintenance free dampener should not be less than 10(ten) years in normal flow condition. Undertaking against the same to be submitted by the bidder alongwith the offer.
 4. The requisite installation and operation recommendations to be forwarded for review at our end along with the offer. Bidders shall be guided accordingly.
 5. Bidders other than OEM (Original Equipment Manufacturer) must submit proper valid authorisation certificate alongwith the warranty back-up from OEM failing which offer shall be liable for rejection.
 6. In the event of an order, all the items shall be suitably packed for transportation and any item found damaged in transit shall have to be replaced free of cost by the supplier. Bidders to confirm the same while quoting.
 7. Validity of the offers should be 120 days from the date of bid opening. Bids with lesser validity shall be rejected.
 8. Quotation must be submitted in **triplicate**.
 9. The items covered by this tender shall be used by Oil India Limited in the PEL/ML areas

which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/01/2005 enclosed.

Special notes (Technical):

The bid must conform to the specifications and terms and conditions given in the enquiry. Bid will be rejected in case the items offered do not conform to all the required technical parameters/requirement stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected.

A. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners / Suction Stabilizers are compatible for operation with pumps with pump data mentioned in point no "A" of Item Description.

B. The bidder should certify that the offered Maintenance free Discharge Pulsation Dampeners / Suction Stabilizers are completely maintenance free and there should not be any need of replacement of any elements whatsoever.

C. Bidder may be an Original Equipment Manufacturer (OEM) of Maintenance free Suction Stabilizer and Discharge Pulsation Dampeners

OR

The bidder may be an authorized dealer of OEM of Maintenance free Suction Stabilizer and Discharge Pulsation Dampeners.

In case the bidder is an authorized dealer of OEM of Maintenance free Suction Stabilizer and Discharge Pulsation Dampeners, documentary evidence in regard to be furnished along with the offer.

D. The design and the operating principle of the offered Maintenance free Discharge Pulsation Dampeners / Suction Stabilizers should clearly be explained in the offer along with supporting technical details, drawings and literature.

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Tender issued to following parties only:

Slno	V_Code	Vendor Name	City/Country
1	100194	SHAFFER	TEXAS
2	100923	HYDRIL PTE LTD	SINGAPORE
3	100924	CAMERON GMBH	CELLE
4	100926	COOPER CAMERON CORPORATION	TEXAS 77092
5	101618	Flowguards Limited	Cheshire
6	101717	HALLIBURTON EXPORT INC.	TEXAS
7	102273	NATIONAL OILWELL VARCO	HOUSTON