

IMPORTANT NOTE

BID DOCUMENT HAS BEEN DISPLAYED BELOW TO UNDERSTAND THE REQUIREMENT ONLY. PARTIES INTERESTED TO PARTICIPATE AGAINST THIS TENDER SHALL HAVE TO PURCHASE THE TENDER DOCUMENT FROM ANY OF OIL'S DESIGNATED OFFICES MENTIONED IN THE TENDER NOTIFICATION. PROOF OF PURCHASE OF TENDER DOCUMENT MUST BE SUBMITTED ALONG WITH THE OFFER FAILING WHICH OFFERS SHALL BE TREATED AS UNSOLICITED.

OIL INDIA LIMITED
(A Govt. of India Enterprise)
4, India Exchange Place,
Kolkata – 700 001.

OIL INDIA LIMITED (OIL) invites sealed tenders for supply of the following items :-

Srl. No.	Tender No. (Bid Closing Date)	Materials Description	Single Order Value in (Rs. Lakhs)	Annual Turnover in (Rs. Lakhs)
1.	KID7340P10/04 (30.04.2010)	Infrared (IR) On-Line Gas Monitoring System (Two Bid).	36	73
2.	KID7186P10/01 (30.04.2010)	Tent.	16	33
3.	KID7307P10/08 (30.04.2010)	Skid Mounted Diesel Engine Driven Progressive Cavity Pump – 5 Nos.	19	38
4.	KID7308P10/08 (30.04.2010)	Skid Mounted Diesel Engine Driven Progressive Cavity Pump – 5 Nos.	19	38
5.	KID7341P10/03 (07.05.2010)	IR Filters.	45	90
6.	KID7362P10/03 (07.05.2010)	Column Internal and Accessories.	20	40
7.	KID7361P10/03 (07.05.2010).	Horizontal Cylindrical Vessel for Storage of Liquid Hydrocarbon.	19	38

2.0 Bid documents (Non transferable) can be purchased from **26.03.2010** till one day prior to the respective Bid Closing Dates on payment of tender fee of Rs. 1000.00 each through Crossed Demand Draft in favour of M/s. Oil India Limited payable at the place of purchase (excepting for PSUs and SSI units registered with NSIC/Directorate of Industries for the item) from (A) Head (Calcutta Branch), Oil India Limited, 4,India Exchange Place, Kolkata - 700001 (B) Head Materials, Oil India Limited, P.O. Duliajan, Assam - 786602 (C) Sr. Adviser (Contract & Purchase), .Oil India Limited, Plot No. 19,Sector-16A, Noida – 201301 (D), Chief Materials Manager (Pipeline), Oil India Limited, P.O: Udayan Vihar, Guwahati - 781171.

3.0 To be eligible for issue of tender documents, the applicant must meet the following qualifying criteria (documentary evidence to be provided) :

(i) Successful execution of a single order of value not less than the amount shown above for supply of similar items during last five years.

(ii) Annual turnover of the firm in any of the last three financial years or current financial year should be more than the amount shown above.

4.0 Bidders may visit OIL's website www.oil-india.com for further details on the above tenders.

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OIL INDIA LIMITED

(A Govt. Of India Enterprise) Tel :033 2230 1657, 1658
 4, India Exchange Place, Fax :91 33 2230 2596
 Kolkata-700001 E-mail :oilcalmn@cal2.vsnl.net.in

Tender No. & Date : KID7361P10/03 15.03.2010

Bid Security Amount : INR 95,000.00 OR USD 0.00
 (or equivalent Amount in any currency)

Bidding Type : Single Bid (Composite Bid)

Bid Closing On : 07.05.2010 at 14:00 hrs. (IST)
 Bid Opening On : 07.05.2010 at 14:00 hrs. (IST)

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 0C000637	<p>HORIZONTAL CYLINDRICAL VESSEL COMPLETE WITH ACCESSORIES FOR STORAGE OF LIQUID HYDROCARBON (CONDENSATE), CAPACITY-40 CUBIC METER.</p> <p>The scope of supply includes design, engineering, manufacturing and supply of horizontal cylindrical vessel complete with accessories for storage of condensate (liquid hydrocarbon) of capacity 40 cubic meter as per ASME section VIII, Div-1 and API Spec-620 and to meet duty condition and technical requirements given in Item Description Texts. and technical requirements as following-</p> <p>TECHNICAL SPECIFICATION FOR VESSEL:</p> <p>A) Duty conditions-</p> <p>i) Liquid capacity - 40 M3 ii) Type of liquid - condensate.(liquid Hydrocarbon) iii) Operating pressure - 1 kg/cm2 iv) Design pressure - 6.7 kg/cm2 v) Operating temperature - 5 to 50 deg C vi) Max Design Temperature- 65.8 Deg C vii) Test pressure - 10 kg/cm2 viii) Specific Gravity of condensate - 0.65 to 0.83</p> <p>B) Shell Body style- horizontal, cylindrical welded ellipsoidal dish end. Dished end must not have any weld joints, shall be spun in a dished head spinning machine.</p> <p>C) Material of construction- all pressure plates to IS:2002 Gr-2 steel. Non pressure plates to IS:2062 quality steel. Corrosion allowance for Pressure plates should be taken as 1.6 mm (1/16 Inch).</p> <p>D) Design and fabrication specification- ASME section VIII, Div-1 and API spec-620</p> <p>E) Shell Body diameter- diameter of the vessel shall not be more than 3 meter.</p>	2	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>F) Connections/nozzles- the vessel shall have the nozzle for various mountings and accessories as under:</p> <p>i) 2 nos. of 100mm NB x NSI 150 class flanged RF nozzles for connection of inlet and outlets.</p> <p>ii) 2 nos. of 100mm NB x NSI 150 class flanged RF nozzles for installation of one no. vapour pressure cum vacuum relief valve and one no. pressure relief valve.</p> <p>iii) 2 nos. of 12.7 mm NB NPT/API LP nozzle for installation of pressure gauge.</p> <p>iv) 1 no. 100 mm NB x ANSI 150 Class RF flanged nozzle at bottom of the vessel for drain valve.</p> <p>v) 4 nos. 12.7 mm NB NPT/API LP nozzles for installation of 2 nos. of reflex type liquid level gauge glasses. 2 nos. of gauge glasses are considered for covering the entire diameter of the vessel vertically. Accordingly nozzles are to be provided in such a manner that the gauges after installation will provide liquid level at any point of the entire vertical length of the vessel.</p> <p>vi) 500 mm NB X ANSI 150 class RF flanged nozzle as manhole at top side of the vessel complete with ANSI 150 class RF blind flange with davit.</p> <p>G) The vessel should have at least 2 suitable designed Supports-saddles of 1.00 meter high for placing on the foundation. The Supports-saddles shall be sturdy enough to take the entire load of the vessel filled with water. The base of the legs shall have 3 nos. of 19.05 mm bore holes for inserting foundation bolts. The Supports-saddles may be detachable type for each of transportation.</p> <p>H) The vessel should have suitable Lifting Lugs.</p> <p>I) Earthing Provision: 1 no. of 3/4" studs with nuts on each legs/supports of the vessel to be provided for electrical earthing.</p> <p>J) A ladder shall be provided near the liquid level gauges on the body of the vessel for reading liquid level measurement and also for climbing on the vessel. To note that the Vessel Supports-saddles would be installed on a foundation of at least 1.50 m high from the ground level. Therefore, the height/length of the ladder should cover the total height of foundation, Supports-saddles and one vertical length of the vessel circumference. Ladder should have a suitable fall prevention guard and have easy access to the platform. Guard and ladder may be of detachable and collapsible type.</p> <p>K) A suitable walkway/platform with railing should be provided at about 300 mm from top of the vessel covering one side of the entire length. The railing may be of detachable type for ease of transportation.</p> <p>L) Accessories: The vessel should be equipped with the following accessories-</p> <p>i) Pressure Relief Valve: 1 no. of pressure relief valve for release of hydrocarbon vapours is to be provided as per following specifications-</p> <ul style="list-style-type: none"> - Pressure relief set at : 1.10 kg/cm² - Operating Temperature : 5 to 50 deg C 		

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>- End connections : 100mm/150mm NB ANSI 150 Class RF</p> <p>ii) Pressure cum Vacuum Relief Valve: 1 no. of pressure cum vacuum relief valve complete with spark arrestor for release of hydrocarbon vapours or intake air respectively are to be provided as per following specifications-</p> <ul style="list-style-type: none"> - Pressure relief set at : 1.10 kg/cm² - Vacuum set at : 50 mm of WG - Operating Temperature : 5 to 50 deg C - End connections : 100mm/150mm NB ANSI 150 Class RF - Spark arrestor should be suitably designed for 100% dissipation of heat. <p>Pressure cum Vacuum Relief Valve should be fitted along with isolation valve (two piece design, ball valve with API 6D Monogram) with proper locking arrangement. Ball valve should be of same size and rating (of relief valve).</p> <p>iii) Pressure gauge: 2 nos. of bourdon type pressure gauges having pressure range of 0 to 3 Kg/cm² . Movement material should be SS 304. Dial diameter should be minimum 100 mm. End connections- 12.7 mm NB NPT / API LP.</p> <p>iv) Reflex type liquid level gauge: 2 nos. of Reflex type liquid level gauge complete with 3 way valves (valve cock assembly) at both ends for monitoring liquid level inside the vessel. Suitable metallic cover should be provided surrounding the gauge glass as protection against breakage. The gauge should have scales in divisions of mm, cm and m by its side for measurement of liquid level in the vessel. The two gauges should be installed in such a way that the liquid level of entire vertical diameter of the vessel is visible in the gauges.</p> <p>v) Cast steel globe type valves for pressure gauge and gauge glass nozzles: 6 nos, 12.7 mm NB x 30 kg/cm² NPT.</p> <p>e) The end connection of all the accessories should be such that they are fitted in the nozzles made for their mounting.</p> <p>vi) Temperature gauge complete with thermowell: 1 no. temperature gauge of ranges 0 to 100 deg C complete with temperature element, thermowell and suitable adaptor for installation in the vessel.</p> <p>vii) API 600 wedge type gate valve: cast carbon steel gate valve as per API spec 600, rising stem with renewable backseat bush and braided asbestos gland packing , bolted bonnet, integral cast wedge gate , tested as per API spec 598 complete with companion flanges and stud bolts and nuts for the following duties-</p> <ul style="list-style-type: none"> - For inlet and outlet , 100 mm NB x ANSI 150 class RF - 2 Nos. - For drain outlet, 100 mm NB x ANSI 150 class RF - 1 No. <p>M) Test Certificate: The manufacturer will have to provide certificate in respect of-</p> <ul style="list-style-type: none"> i) Raw materials used showing material compositions along with physical and chemical properties. ii)Hydraulic pressure Test charts for 24 Hrs continuous record of pressure 		

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>recorder.</p> <p>iii) Test certificates of all the bought out items.</p> <p>vi) Radiographed film of weld joints.</p> <p>v) Heat Treatment (PWHT) chart.</p> <p>N) Finishing: Vessel should be cleaned by sand blasting followed by one coat of uniform red oxide primer and one coat of premium quality epoxy paint of grey shed. The inner surfaces of the equipment should be given a coat of high quality red oxide primer before dispatch.</p> <p>Notes:-</p> <p>1) Third party inspection charges should be quoted separately.</p> <p>2) Post weld heat treatment (Stress Relieving) of the whole vessel should be carried out in an automatic temperature controlled furnace /as applicable per ASME CODE SEC VIII DIV-1</p> <p>3) Bidder should submit the following along with bid for Technical scrutiny-</p> <p>a) Details of Vessel design along with approx. weight.</p> <p>b) The bidder must submit technical literature/catalogue, drawings of the offered product in duplicate along with the offer, failing which the offer shall be liable for rejection.</p> <p>c) All technical details of the vessel including that of bought out items with drawings should be forwarded along with the quote for technical scrutiny.</p> <p>d) Relevant technical literature with detail specifications of all bought out items would be furnished for technical scrutiny.</p> <p>4) The bought out items should be procured from reputed companies having good performance record. OIL reserves the right for rejection of any party, if their credentials are not up to OIL's satisfaction.</p> <p>5) Working drawing and QAP/ITP shall be submitted within 3 weeks from the date of placement of order and material to be delivered to us within 5 months from the date of approval of the 1st approved working drawing.</p> <p>6) The order no. and year of manufacture will be clearly written by welding on the legs of the vessel. Company's name plate should be fitted in the body of the vessel having detail technical specification such as capacity, design pressure, hydraulic test pressure, weight, order no etc.</p> <p>7) The bidder must clearly mention any deviation/modification from our specification in their offer. This point is to be noted carefully and bidder to summarize the deviation/modification in a separate column in their offer document with a heading " deviation/modification" otherwise they will write " NO DEVIATION FROM ENQUIRY"</p> <p>8) Dished end shall be pressed and spun in dished head spinning machine only. Weld joint in dished end shall not be allowed, and the offer shall be liable for rejection.</p> <p>9) OIL should depute its engineer for final inspection of the vessel before despatch for which minimum 15 days prior intimation will have to be provided</p>		

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>by the party.</p> <p>10) Nozzle necks are to be made of SA 106 Gr B material only and to be provided with RF plates /saddle made of the material similar to the shell material. Also, all the nozzle connection should be provided with proper blind / plug at the time of despatch of standard specification.</p> <p>11) All flanges fitted on the vessel including companion flanges and valve flanges should be as per ANSI B-16.5. Companion flanges should be weld neck type.</p> <p>12) Screwed ends should be API LP threaded as per API- 5B.</p> <p>13) Stud bolts and nuts should conform to ASTM -A-193 and ASTM A- 194. GR-2H respectively.</p> <p>14)Third Party Inspection:</p> <p>The vessel will be inspected by any one of Third Party Inspection Agencies approved by Oil India Ltd. Viz M/s Lloyds or M/s Bureau Veritas or M/s RITES or M/s Tuboscope Vetco or M/s DNV or M/s IRS only with following scope of work-</p> <p>a)To review qualification of the welder and welding procedure specifications (WPS) as per ASME code.</p> <p>b)To review and ensure use of raw materials as per purchase order. This may be done by reviewing original MTC or by chemical analysis and physical test.</p> <p>c)To ensure that the bidder has complied with respect to our approved drawing for fabrication of the vessel.</p> <p>d) To review the stage wise inspection of sub assemblies viz. inlet and outlet, mist extractor assembly, dished end, companion flanges etc. before final assembly.</p> <p>e)To review the radiographed film of weld joints as per relevant ASME code and heat treatment chart.</p> <p>f)To witness final dimensional inspection and ensure proper workmanship.</p> <p>g)To witness the painting of the vessel as per the requirement.</p> <p>h)To witness hydro test of the vessel.</p> <p>i)The above inspection is for general guide line only. If third party desire to carry out any additional inspection as per ASME code, the same should be included under intimation to Oil India Limited.</p> <p>j)To document and issue inspection certificate.</p> <p>15) EXPERIENCE :</p> <p>(i) The bidder must have at least 3 years experience in Design, Fabrication and Supply of Pressure Vessel/Separator/similar items used in Oil & Gas Fields as per ASME section VIII, Div-1 and/or API Spec-620. The bidder must submit the necessary credential to this effect.</p> <p>ii) Incase of bidder does not have requisite experiences as mentioned in para 15(i) above, the bidder can have collaboration to cover the shortfall in experiences mentioned in para 15(i). The collaborator must have full experience as mentioned in para 15(i) above. Such collaboration shall be through a pre -Tender by-partite agreement or MOU between the primary Bidder and the collaborator. The Pre-Tender by-partite agreement has to be</p>		

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>valid until guarantee period of the vessels. However, post-supply performance guarantee has to be given by the primary Bidder. The bidder has to submit the following documents along with the bid:</p> <p>a) Credential certificates / documents of the collaborator. b) Copy of Agreement / MOU of the collaborator.</p> <p>16) Delivery should be within 6 (six) month from the date of placement of the order.</p>		

Special Notes : 1) **BID EVALUATION CRITERIA:** The Offers will be evaluated strictly as per NIT specifications. Any offer not meeting the Experience criteria as given below will not be evaluated.

(i) The bidder must have at least 3 years experience in Design, Fabrication and Supply of Pressure Vessel/Separator/similar items used in Oil & Gas Fields as per ASME section VIII, Div-1 and/or API Spec-620. The bidder must submit the necessary credential to this effect.

ii) In case of bidder does not have requisite experiences as mentioned in para 1(i) above, the bidder can have collaboration to cover the shortfall in experiences mentioned in para 1(i). The collaborator must have full experience as mentioned in para 1(i) above. Such collaboration shall be through a pre-Tender by-partite agreement or MOU between the primary Bidder and the collaborator. The Pre-Tender by-partite agreement has to be valid until guarantee period of the vessels. However, post-supply performance guarantee has to be given by the primary Bidder. The bidder has to submit the following documents along with the bid:

- a) Credential certificates / documents of the collaborator.
- b) Copy of Agreement / MOU of the collaborator.

2) **BID REJECTION CRITERIA** : The bids must be complete in all respect. Bids must be submitted along with all the required documents for Technical scrutiny as following:

- a) Details of Vessel design along with approx. weight.
- b) The bidder must submit technical literature/catalogue, drawings of the offered product in duplicate along with the offer, failing which the offer shall be liable for rejection.
- c) All technical details of the vessel including that of bought out items with drawings should be forwarded along with the quote for technical scrutiny.
- d) Relevant technical literature with detail specifications of all bought out items would be furnished for technical scrutiny.

General Notes:

1. Warranty for trouble free operation of the equipment along with the accessories for a period of 18 (eighteen) months from the date of receipt of the materials or 12 (twelve) months from the date of commissioning whichever is earlier. The vendor shall repair or replace any item or equipment found defective in materials or workmanship or performance within the above period, at no extra cost. Confirmation to above should be clearly mentioned in the offer.

2. Bidder must fill-up the check list vide Annexure - A enclosed in the above specification.

3. Pre Dispatch Inspection:

Materials/Equipments are to be inspected & certified by OIL's engineers at supplier's work before despatch and for which 15 (fifteen) days advance intimation will be required.

**HORIZONTAL CYLLINDRICAL VESSEL COMPLETE WITH ACCESSORIES FOR
STORAGE OF LIQUID HYDROCARBON (CONDENSATE)
CAPACITY-40 CUBIC METER**

CHECK LIST

Sl.No	Description	Remarks	
		YES	NO
1	The scope of supply includes design, engineering, manufacturing and supply of horizontal cylindrical vessel complete with accessories for storage of condensate (liquid hydrocarbon).		
2	Shell Body style is horizontal, cylindrical welded ellipsoidal dish end. Dished end must not have any weld joints, shall be spun in a dished head spinning machine.		
3	All pressure plates to IS:2002 Gr-2 steel. Non pressure plates to IS:2062 quality steel. Corrosion allowance for Pressure plates should be taken as 1.6 mm (1/16 Inch)		
4	Design and fabrication specification- ASME section VIII, Div-1 and API spec-620		
5	Shell Body diameter- diameter of the vessel shall not be more than 3 meter.		
6	Connections/nozzles on the vessel for various mountings and accessories are as per Tender		
7	The vessel should have at least 2 suitable designed Supports-saddles of 1.00 meter high for placing on the foundation. The Supports-saddles shall be sturdy enough to take the entire load of the vessel filled with water. The base of the legs shall have 3 nos. of 19.05 mm bore holes for inserting foundation bolts.		
8	The vessel should have suitable Lifting Lugs.		
9	Earthing Provision: 1 no. of 3/4" studs with nuts on each legs/supports of the vessel to be provided for electrical earthing.		
10	Control System Engineering details, technical documents of detectors & other instrumentation system provided		
11	A ladder shall be provided near the liquid level gauges on the body of the vessel for reading liquid level measurement and also for climbing on the vessel. Ladder should have a suitable fall prevention guard and have easy access to the platform		
12	A suitable walkway/platform with railing should be provided at about 300 mm from top of the vessel covering one side of the entire length		
13	Pressure Relief Valves are as per Tender		
14	Pressure cum Vacuum Relief Valves are as per Tender		
15	Pressure cum Vacuum Relief Valve should be fitted along with isolation valve (two piece design, ball valve with API 6D Monogram) with proper locking arrangement. Ball valve should be of same size and rating (of relief valve).		
16	Pressure Gauges are as per Tender.		
17	Reflex type liquid level Gauges are as per Tender		
18	Temperature Gauges complete with thermowell are as per Tender.		
19	API 600 wedge type gate valves for inlet & outlet and drain are as per tender.		
20	Manufacturer Test Certificates will be provided as per tender.		

**HORIZONTAL CYLLINDRICAL VESSEL COMPLETE WITH ACCESSORIES FOR
STORAGE OF LIQUID HYDROCARBON (CONDENSATE)
CAPACITY-40 CUBIC METER**

21	Vessel should be cleaned by sand blasting followed by one coat of uniform red-oxide primer and one coat of premium quality epoxy paint of grey shed. The inner surfaces of the equipment should be given a coat of high quality red oxide primer before dispatch.		
22	Third party inspection charges should be quoted separately.		
23	Post weld heat treatment (Stress Relieving) of the whole vessel should be carried out in an automatic temperature controlled furnace /as applicable per ASME CODE SEC VIII DIV-1		
24	Bidder should submit the documents as per Notes-3 along with bid for Technical scrutiny.		
25	Working drawing and QAP/ITP shall be submitted within 3 weeks from the date of placement of order and material to be delivered to us within 5 months from the date of approval of the 1st approved working drawing.		
26	The order no. and year of manufacture will be clearly written by welding on the legs of the vessel. Company's name plate should be fitted in the body of the vessel having detail technical specification such as capacity, design pressure, hydraulic test pressure, weight, order no etc.		
27	The bidder must clearly mention any deviation/ modification from our specification in their offer. This point is to be noted carefully and bidder to summerize the deviation/modification in a separate column in their offer document with a heading " deviation/modification" otherwise they will write " NO DEVIATION FROM ENQUIRY"		
28	Dished end shall be pressed and spun in dished head spinning machine only. Weld joint in dished end shall not be allowed, and the offer shall be liable for rejection.		
29	OIL should depute its engineer for final inspection of the vessel before despatch for which minimum 15 days prior intimation will have to be provided by the party.		
30	Nozzle necks are to be made of SA 106 Gr B material only and to be provided with RF plates /saddle made of the material similar to the shell material. Also, all the nozzle connection should be provided with proper blind / plug at the time of despatch of standard specification.		
31	All flanges fitted on the vessel including companion flanges and valve flanges should be as per ANSI B-16.5. Companion flanges should be weld neck type.		
32	Screwed ends should be API LP threaded as per API- 5B.		
33	Stud bolts and nuts should conform to ASTM -A-193 and ASTM A- 194. GR-2H respectively.		
34	Third Party Inspection will be carried out as per tender.		
35	Warranty for trouble free operation of the equipment along with the accessories for a period of 18 (eighteen) months from the date of receipt of the materials or 12 (twelve) months from the date of commissioning whichever is earlier. The vendor shall repair or replace any item or equipment found defective in materials or workmanship or performance within the above period, at no extra cost. Confirmation to above should be clearly mentioned in the offer.		