

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

ANNEXURE-I**Tender No. : KID3409L15/05****Tender Date : 29.04.2014**

Item No./ Mat. Code	Material Description	Quantity	UOM
10 99068457	<p>Flange, RTJ, 50 mm NB, 2500 Class Flange, Forged Carbon Steel, Ring Joint Groove, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Ring Gasket as per ANSI B 16.20 Standard (Latest Edition):</p> <p>NOMINAL SIZE : 50 mm (2 inch) CLASS :ANSI 2500 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H</p> <p>Flange should be suitable for welding to 60.3 mm (2.3/8 inch) OD, API 5L Grade-B, Bevel End pipe having Wall thickness of 11.07 mm (0.436 inch).</p>	12	PAA
20 99068458	<p>Flange, RTJ, 65 mm NB, 2500 Class Flange, Forged Carbon Steel, Ring Joint Groove, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Ring Gasket as per ANSI B 16.20 Standard (Latest Edition):</p> <p>NOMINAL SIZE : 65 mm (2.1/2 inch) CLASS :ANSI 2500 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H</p> <p>Flange should be suitable for welding to 73.0 mm (2.7/8 inch) OD, API 5L Grade-46, Bevel End pipe having Wall thickness of 14.02 mm (0.552 inch).</p>	20	PAA
30 99068459	<p>Flange, RTJ, 100 mm NB, 2500 Class Flange, Forged Carbon Steel, Ring Joint Groove, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Ring Gasket as per ANSI B 16.20 Standard (Latest Edition):</p> <p>NOMINAL SIZE : 100 mm (4 inch) CLASS :ANSI 2500 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H</p> <p>Flange should be suitable for welding to 114.3 mm (4.1/2 inch) OD, API 5L Grade-60, Bevel End pipe having Wall thickness of 11.125 mm (0.438 inch).</p>	20	PAA
40 99068460	<p>"Flange, RF, 50 mm NB, 300 Class Flange, Forged Carbon Steel, RF with Serrated Concentric Facing, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Spiral-Wound Gasket as per ANSI B 16.20 Standard (Latest Edition):</p>	24	PAA

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	<p>NOMINAL SIZE : 50 mm (2 inch) CLASS :ANSI 300 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H</p> <p>Flange should be suitable for welding to 60.3 mm (2.3/8 inch) OD, API 5L Grade-B, Bevel End pipe having Wall thickness of 5.54 mm (0.218 inch)."</p>		
50 99068461	<p>Flange, RF, 100 mm NB, 300 Class Flange, Forged Carbon Steel, RF with Serrated Concentric Facing, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Spiral-Wound Gasket as per ANSI B 16.20 Standard (Latest Edition):</p> <p>NOMINAL SIZE : 100 mm (4 inch) CLASS :ANSI 300 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H</p> <p>Flange should be suitable for welding to 114.3 mm (4.1/2 inch) OD, API 5L Grade-46, Bevel End pipe having Wall thickness of 7.14 mm (0.281 inch).</p>	24	PAA
60 99068462	<p>Flange, RF, 150 mm NB, 300 Class Flange, Forged Carbon Steel, RF with Serrated Concentric Facing, elding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Spiral-Wound Gaskets per ANSI B 16.20 Standard (Latest Edition):</p> <p>NOMINAL SIZE : 150 mm (6 inch) CLASS :ANSI 300 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H</p> <p>Flange should be suitable for welding to 168.3 mm (6.5/8 inch) OD, API 5L Grade-A, Bevel End pipe having Wall thickness of 7.11 mm (0.280 inch).</p>	24	PAA
70 99068463	<p>Flange, RF, 200 mm NB, 300 Class Flange, Forged Carbon Steel, RF with Serrated Concentric Facing, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Spiral-Wound Gasket as per ANSI B 16.20 Standard (Latest Edition):</p> <p>NOMINAL SIZE : 200 mm (8 inch) CLASS :ANSI 300 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H</p>	24	PAA

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	Flange should be suitable for welding to 219.1 mm (8.5/8 inch) OD, API 5L Grade-B, Bevel End pipe having Wall thickness of 7.04 mm (0.277 inch).		
80 99068464	"Flange, RF, 250 mm NB, 300 Class Flange, Forged Carbon Steel, RF with Serrated Concentric Facing, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Spiral-Wound Gasket as per ANSI B 16.20 Standard (Latest Edition): NOMINAL SIZE : 250 mm (10 inch) CLASS :ANSI 300 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H Flange should be suitable for welding to 273 mm (10.3/4 inch) OD, API 5L Grade-B, Bevel End pipe having Wall thickness of 7.80 mm (0.307 inch)."	24	PAA
90 99068465	Flange, RF, 300 mm NB, 300 Class Flange, Forged Carbon Steel, RF with Serrated Concentric Facing, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Spiral-Wound Gasket as per ANSI B 16.20 Standard (Latest Edition): NOMINAL SIZE : 300 mm (12 inch) CLASS :ANSI 300 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H Flange should be suitable for welding to 323.9 mm (12.3/4 inch) OD, API 5L Grade-A, Bevel End pipe having Wall thickness of 8.40 mm (0.330 inch).	24	PAA
100 99068466	"Flange, RF, 400 mm NB, 300 Class Flange, Forged Carbon Steel, RF with Serrated Concentric Facing, Welding Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts and Spiral-Wound Gasket as per ANSI B 16.20 Standard (Latest Edition): NOMINAL SIZE : 400 mm (16 inch) CLASS :ANSI 300 Material: ASTM A105 Stud-Bolts: ASTM A193 GR B-7 NUTS: ASTM A194 GR.2H Flange should be suitable for welding to 406.4 mm (16 inch) OD, API 5L Grade-46, Bevel End pipe having Wall thickness of 7.92 mm (0.312 inch)."	24	PAA
110 99067133	Flanges in pair as per ANSI B16.5 300 class (PN 50) (WN) along with necessary Studs / Nuts and mettalic gasket. Specifications:	12	NO

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	<p>Flanges made of forged carbon steel, RF weld neck type as per ANSI-B 16.5, material to ASTM A-105, ANSI 300 class. All dimensions to be provided as per ANSI B-16.5.</p> <p>Nom. Size : 600 mm (24") Bore : 610 mm Pipe Wall thickness : 7.1 mm OD flange : 36" Diameter of bolt circle: 32" No of bolts: 24</p> <p>Gasket shall be as per ANSI 16.5(gasket factor m should be greater than 3.00 and minimum design seating stress should be 10000psi) Mettalic gasket shall be of spiral-wound metal with asbestos and other non mettalic filler</p>		
120 99049336	<p>Steel pipe flanges, raised face, forged, Slip-on Welding type, materials : forged carbon steel as per ASTM A- 105. dimension & drilled as per ANSI B 16.5 latest edition, complete with requisite studs and nuts. Size and pressure ratings are as under. Materials for Studs - ASTM A 193 Gr. B7 & Nuts - ASTM A 194 Gr. 2H</p> <p>----- SIZE : 4" (101.6 MM) X 300 CLASS PRESSURE RATING</p>	12	PAA
130 99049334	<p>Steel pipe flanges, raised face, forged, Slip-on Welding type, materials : forged carbon steel as per ASTM A- 105. dimension & drilled as per ANSI B 16.5 latest edition, complete with requisite studs and nuts. Size and pressure ratings are as under. Materials for Studs - ASTM A 193 Gr. B7 & Nuts - ASTM A 194 Gr. 2H</p> <p>----- SIZE : 2" (50.8 MM) X 300 CLASS PRESSURE RATING</p>	12	PAA
140 99066929	<p>FLANGE (SLIP ON TYPE)RF</p> <p>Steel pipe flanges, raised face, Forged, Slip on Weilding type forged carbon steel as per ASTM A105 grade dimension & drilled as per ANSI B 16.5 latest edition,complete with requisite quantity of studs and nuts . Size and pressure rating are as under: 8inch(203 mm) X 300 CLASS</p>	24	NO
150 99066928	<p>FLANGE (SLIP ON TYPE)RF</p> <p>Steel pipe flanges, raised face, Forged, Slip on Weilding type forged carbon steel as per ASTM A105 grade dimension & drilled as per ANSI B 16.5 (Blind) latest edition,complete with requisite quantity of studs and nuts . Size and pressure rating are as under: 10inch(250 mm) X 300 CLASS</p>	24	NO
160	Steel pipe flanges, raised face, Forged, Slip on Welding type forged carbon	24	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
99066926	steel as per ASTM A105 grade dimension & drilled as per ANSI B 16.5 latest edition,complete with requisite quantity of studs and nuts . Size and pressure rating are as under: 16inch(406 mm) X 300 CLASS		
170 99074874	Blind Flange, Class;300, Type;BLIND, RF, Material: ASTM A 105, End drilled to ANSI B 16.5. Size:400 mm (16").	24	NO
180 99064873	Flange, Forged Carbon Steel, Ring Joint Groove, Weld Neck as per ANSI B16.5 Standard (Latest Edition) with necessary High Tensile Stud-Bolts & Nuts necessary and Ring Gasket (R-24) as per ANSI B 16.20 Standard (Latest Edition): Nominal Size : 50 MM (2 inch) Pipe O.D.: 60.3 mm (2.3/8 inch) Class :ANSI 1500 Material: ASTM A105 Stud-Bolts: STM A193 GR B-7 NUTS: ASTM A194 GR.2H Flange should be suitable for welding to API 5L Grade-B, Bevel End pipe having Wall thickness of 11.07mm (0.436 inch).	50	PAA
190 99047257	Flange, Forged Carbon Steel, weld neck, Ends RTJ, Conforming to ANSI B 16.5 (latest edition), Material to ASTM A 105 with necessary high tensile stud and nut and ring joint gasket. Materials for studs ASTM A193 Grade B-7 and nuts ASTM A194 Grade 2H and ring gasket as per ANSI B 16.20. Nominal size : 50 mm (2") x 900 Class , O.D. 60.3 mm (2 3/8"), Wall thickness 5.54 mm (0.218")	50	PAA
200 99055300	4" Dia Flange WN RTJ ASME B16.5 900#63AARH SCH XXS ASTM A105 Groove R37	200	NO
210 99055301	4" Dia Flange WN RTJ ASME B16.5 1500#63AARH SCH XXS ASTM A105 Groove R39	200	NO
220 99045695	Blind Flange, Class;300, Type;BLIND, RF, Material: ASTM A 105, End drilled to ANSI B 16.5. Size : 50 mm (2")	24	PC
230 99045701	Blind Flange, Class;300, Type;BLIND, RF, Material: ASTM A 105, End drilled to ANSI B 16.5. Size:300 mm (12")	24	PC
240 99045700	Blind Flange, Class;300, Type;BLIND, RF, Material: ASTM A 105, End drilled to ANSI B 16.5. Size : 250 mm (10")	24	PC
250 99045699	Blind Flange, Class :300, Type : BLIND, RF, Material : ASTM A105, End drilled to ANSI B 16.5. Size : 200 mm(8")	24	PC

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260 99045698	Blind Flange, Class : 300, Type : BLIND, RF, Material : ASTM A105, End drilled to ANSI B 16.5. Size : 150 mm(6")	24	PC
270 99045697	Blind Flange, Class;300, Type;BLIND, RF, Material: ASTM A 105, End drilled to ANSI B 16.5. Size : 100 mm (4")	24	PC
280 99074867	REDUCERS (CONCENTRIC), 400mm x 300mm, 70 kg/sq.cm Concentric Reducer, Seamless, Butt-welding, manufactured as per ANSI B 16.9 std. (latest edition)and Butt welding ends confirming to ANSI B 16.25(latest edition): Material: ASTM A 234 WPB Working pressure: 70 kg/sq.cm (1000 psi) Nominal pipe size (NPS) = 400 mm (16 inch) x 300 mm (12 inch) End to End Distance: 356 mm Reducer should be suitable for welding to the pipes having following specification:welding to a) 406.4 mm (16 inch) OD,API 5L Grade-46, Bevel End pipe having Wall thickness of 7.92 mm (0.312inch)." b)323.9 mm (12.3/4 inch) OD,API 5L Grade-A, Bevel End pipe having Wall thickness of 8.40 mm (0.330 inch).at the other end.	20	NO
290 99074868	REDUCERS (CONCENTRIC), 400mm x 250mm, 70 kg/sq.cm Concentric Reducer, Seamless, Butt-welding, manufactured as per ANSI B 16.9 std. (latest edition)and Butt welding ends confirming to ANSI B 16.25(latest edition): Material: ASTM A 234 WPB Working pressure: 70 kg/sq.cm (1000 psi) Nominal pipe size (NPS) = 400 mm (16 inch) x 250 mm (10 inch) End to End Distance: 356 mm Reducer should be suitable for welding to the pipes having following specification:welding to a) 406.4 mm (16 inch) OD,API 5L Grade-46, Bevel End pipe having Wall thickness of 7.92 mm (0.312 inch). b) 250 mm (10") O.D. API 5L Grade B, Bevel End pipe having Wall thickness 7.80 mm (0.307 inch) at the other end.	10	NO
300 99074869	REDUCERS (CONCENTRIC), 508mm x 400mm, 70 kg/sq.cm Concentric Reducer, Seamless, Butt-welding, manufactured as per ANSI B 16.9 std. (latest edition)and Butt welding ends confirming to ANSI B 16.25(latest edition): Material: ASTM A 234 WPB Working pressure: 70 kg/sq.cm (1000 psi) Nominal pipe size (NPS) = 508 mm (20 inch) x 400 mm (16 inch) End to End Distance: 508 mm Reducer should be suitable for welding to the pipes having following specification:welding to a) 508 mm (20 inch) O.D. API 5L Grade 46, Bevel End pipe having Wall	5	NO

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	thickness 7.92 mm (0.312 inch) b) 406.4 mm (16 inch) OD,API 5L Grade-46, Bevel End pipe having Wall thickness of 7.92 mm (0.312inch) at the other end.		

Special Notes : Attachments in 'Services for Object':

- 1) Annexure-A (Technical Compliance Check-List)
- 2) Annexure-B (Scope of Supply)
- 3) Annexure-C (QAP for Flange-Sample Only)

1) Items must be brand new, unused and free from all defects and in ready to use condition.

2) All flanges shall be thoroughly cleaned & painted with anti-corrosive paint or varnish to avoid corrosion.

3) Bidder to quote their best delivery period. Delivery period should not be more than 3 months after PO placement.

4) Any variation or non-conformity to the tender specification must be clearly mentioned in the Technical Compliance Check-List (Annexure-A) given in the Tender. Deviation mentioned elsewhere in the offer will not be given cognizance.

5) Scope of supply under this tender shall be as per Annexure-B. Confirmation to the same shall be submitted by the bidder.

6) Detailed Engineering drawings of the flanges as per relevant standard must be submitted to us in duplicate along with the quotations for dimensional check and approvals.

7) The supplier shall carryout visual and dimensional checking and Magnetic Particle Test on each and every item to be supplied.

8) Test certificates of raw material used, Hydraulic Test conducted, Magnetic Particle test conducted and dimensional check must be submitted to OIL along with the materials.

9) Every piece of Flange must be marked permanently to show at least :

- a) Manufacturer's name or trademark.
- b) Materials and product identification (viz. ASTM A 105).
- c) Pressure rating/class.
- d) Designation (i.e. ANSI B 16.5)
- e) NPS
- f) Ring Joint Flange shall be marked with Letter "R" and the corresponding Ring Groove Number (viz. R24)
- g) 3rd party Inspector's identification mark.
- h) OIL's Purchase Order No.

IN ABSENCE OF ABOVE MARKING, THE MATERIAL WILL NOT BE ACCEPTED.

10) "Materials shall be inspected and certified by any one of the OIL authorized third party inspection agencies viz. M/s. BV / IRS / LRIS / RITES / DNV prior to despatch. Bidders must quote the inspection charges separately in % (percentage) in the offer for evaluation of offer, failing which it shall be construed that the quoted rates are inclusive of 3rd party inspection

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charges."

When a bidder mentions third party inspection charges as extra without specifying the amount, the offer will be loaded with maximum value towards third party inspection charges quoted against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading and in the event of order on that bidder, third party inspection charges mentioned by OIL on the Purchase Order will be binding on the bidder.

11) Scope of test and inspection by OIL's approved third party inspection agency must include:

- a) At least 5% of the raw materials against each item at random shall be selected by third party inspector & necessary chemical & mechanical tests will be carried out by manufacture to confirm that correct materials as per specifications has been used and certificates to the same approved by TPIA must be provided to OIL along with the materials / despatch documents.
- b) Raw material identification against Original Mill certificate and correlation of Heat Nos. Certified copies of the certificates must be provided to OIL along with the materials / despatch documents.
- c) One or two piece(s) against each heat treated lot and size after formation and before machining will be selected and stamped by Inspector for physical and chemical testing. Physical testing of the materials at Govt. Approved Laboratories / OIL approved Laboratories must be witnessed and certified by Inspector.
- d) To carryout Magnetic particle testing on 10% of each item (minimum quantity- 01 Piece against each item) and to review MP test report for all the materials.
- e) To make visual and dimensional check (min. 15% of ordered quantity) of all the items and to ensure dimensions of all fittings are as per OIL approved drawings i.e. as per relevant standard. These dimensional check certificates must be certified by TPI.
- f) Finished materials (min. 10% of the ordered quantity) will be tested hydraulically at 1.5 times of working pressure or specified test pressure as per specification in presence of Inspector. Inspector must write the number of pieces tested and test pressure in the Inspection Certificate.
- g) Randomly check markings in Flanges and Ring Gaskets.
- h) Check all flanges for thorough cleaning & painting with anti-corrosive paint or varnish to avoid corrosion.
- i) Ensure packing and tagging of finished product for dispatch is done as per OIL's PO.
- j) To check and certify all the stages of Quality Assurance Procedure (QAP) approved by OIL are covered and followed by the manufacturer.
- k) To document and issue inspection certificate. All the certificates (original + 2 certified copies) must be checked verified and signed by Inspector under official seal and must be submitted along with despatch documents.

12) Bidder must submit their Quality Assurance Procedure (QAP) based on NIT requirements and relevant standards. A sample of QAP required to be submitted by the bidders is attached (Annexure-C).

13) In the Bid Vendor has to mention the factory where, the forging of the flanges will be carried out and OIL reserves the right to inspect the flanges as in forged condition and to inspect adherence to the approved QAP during manufacturing stage. Party has to inform OIL during the manufacturing stage and At least 15 days advance notice will be required for deputing OIL's Engineer.

14) Further to the above point , OIL's Engineer will witness the following inspection at your works besides the third party inspection before dispatching the finished product. At least 15 days advance notice will be required for deputing OIL's Engineer.

- a) Hydraulic testing
- b) Magnetic Particle Testing
- c) Any other tests relevant to the quality assurance

15) Materials must be guaranteed for workmanship & performance for a period of 18 months

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from the date of dispatch or 12 months from the date of commissioning, whichever is earlier and relevant guarantee certificate in duplicate must be provided along with the supply.

16) Quantity of each and every item may be increased /decreased at the time of final order placement.

17) OIL's P.O. Number, size of material packed and box/bag/crate number should be clearly written on the box/gunny bag/crate with a marker pen and a card containing details of the content viz. OIL's P.O. No., item No., quantity, size of material, challan reference etc. must be tagged to the box/bag/crate securely. A copy of the tag should also be kept inside the box/bag/crate to enable the receiving personnel at Duliajan to properly account for the goods.

18) Threads of items under the scope of supply must be gauged and checked as per relevant original master gauges and certified by Inspector.

19) BID ENCLOSURES:

a) The bidder's quote should indicate each and every item serially as given in the technical specification of the enquiry.

b) Relevant catalogue, technical brochures, detailed Engineering drawings must be furnished along with the quotation in duplicate.

c) Technical Compliance Check-List (as Annexure-A)

d) Conformance to Scope of supply (as Annexure-B)

e) Bidders Quality Assurance Procedure (QAP) (as Annexure-C).

f) Any other documents required for evaluation of bidders' offer.

20. Validity of offer: 75 days from the date of tender opening. Offer with validity less than 75 days will be rejected.

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Tender Date : 29.04.2014
Bid Closing On : 30.05.2014 at 14:00 hrs.(IST)
Bid Opening On : 30.05.2014 at 14:00 hrs.(IST)

Tender issued to following parties only:

Slno	V_Code	Vendor Name	City/Country
1	200046	Parveen Industries Pvt. Ltd.	DELHI
2	200052	SARA SAE PVT. LTD.	DEHRADUN
3	200264	TUBE-BEND(CALCUTTA) PVT. LTD.	KOLKATA
4	200449	CHANDA & CO. (ENGG) PVT. LTD.	KOLKATA
5	201040	R.P. ENGG. (P) LTD.	HOWRAH
6	202891	TRUE FAB ENGINEERS (P) LTD.	FARIDABAD,HARYANA
7	202928	WESTON ENGINEERS	HOWRAH
8	203237	UDYOG CORPORATION	KOLKATA
9	204469	TRUE FORGE PVT. LTD.	FARIDABAD
10	204470	STEEL SAMRAT (INDIA)	MUMBAI
11	208361	PARAMOUNT FORGE	MUMBAI
12	210704	OMEGA CORPORATION	NAGPUR