



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुर्गेश्वरान, अस्सम
Oil India Limited
(A Government of India Enterprise) Registered Office: Durgেশ्वरान, Assam

FC-24, 5th Floor, IT Infrastructure
Building, Sector-16A, NOIDA-201301
Fax: 0120 - 2488310
E-mail: cemg_c&p@oilindia.in
Web Site: www.oil-india.com

TENDER NO. SLG5232P15

DATE: 30.10.2014

INVITATION TO e-BID UNDER SINGLE STAGE TWO BID SYSTEM

Dear Sirs,

OIL invites Bids for the supply of CASING through its e-Procurement site under **SINGLE STAGE TWO BID System**. The bidding documents and other terms and conditions are available at Booklet No.MM/GLOBAL/E-01/2005-July2012. The prescribed Bid Forms for submission of bids are available in the tender document folder.

The general details of tender can be viewed by opening the RFx [Tender no.] under RFx and Auctions page. The details of items tendered can be found under Item tab and details can be found under Technical RFX.

The tender is invited with firm price for the specified quantity. Further details of tender are given in Technical Rfx -> External Area - > Tender Documents as **ANNEXURE 1A**.

The tender will be governed by:

- a) "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). Special attention to the bidders is drawn to Section – E of the document.
- b) Technical specifications ,Quantity and General Notes for Casing as per **Annexure – 1A**.

- c) The prescribed Bid Forms for submission of bids are available in the Technical Rfx -> External Area - > Tender Documents. Technical Checklist and Commercial Checklist vide **Annexure IV** must be filled-up and submitted along with the technical bid.
- d) The items covered by this enquiry 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 Benefit are furnished vide Addendum to MM/GLOBAL/E-01/2005-July2012 enclosed.

Special Note:

1.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with **Tender no.** and **Due date to The Sr. Manager (C&P), Oil India Limited, FC 24, 5th Floor, Sector 16A, Noida, Uttar Pradesh** on or before the Bid Closing Date and Time mentioned in the Tender.

- a) **Original Bid Security .**
- b) **Detailed Catalogue.**
- c) **Any other document required to be submitted in original as per tender requirement.**

All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate.

2.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

3.0 **All the Bids must be Digitally Signed using "Class 3" digital certificate (e-commerce application) with organisation name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.**

4.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.

5.0 **Two bid system** shall be followed for this tender and only the price-bids of the bidders whose offers are commercially and technically acceptable shall be opened for further evaluation.

6.0 **Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the** Technical RFX Response-> User - > Technical Bid only. The “**TECHNO-COMMERCIAL UNPRICED BID**” shall contain all techno-commercial details **except the prices. Please note that no price details should be uploaded in** Technical RFX Response.

7.0 The “**PRICE BID**” must contain the price schedule and the bidder’s commercial terms and conditions. **The prices of the items should be quoted in “Conditions Tab”.**

8.0 **The Integrity Pact is applicable against this tender .OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL’s competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder’s authorized signatory who sign the Bid.**

9.0 Port of receipt of material is **Chennai port**. Foreign bidder to quote ocean freight up to **Chennai Port**. If in any part of this tender document is mentioned Kolkata (or Calcutta) port in this regard, same should be read as **Chennai Port. CIF Chennai port** will be considered for evaluations among foreign bidders as well as with Indian bidders. However, if there is no foreign bidder, price of

Indian bidders will be considered to Kakinada (destination) for evaluation

Yours Faithfully

Sd/-

(RUPAK KALITA)
SR MANAGER (C & P)
FOR GENERAL MANAGER (GSc. CEMG)



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुर्गल्लारान, असम
Oil India Limited
(A Government of India Enterprise) Registered Office: Durgallan, Assam

FC-24, 5th Floor, IT Infrastructure
Building, Sector-16A, NOIDA-201301
Fax: 0120 - 2488310
E-mail: cemg_c&p@oilindia.in
Web Site: www.oil-india.com

ANNEXURE-IA

Tender No& Date : SLG5232P15 DATED 30.10.2014

Tender Fee : INR 4500.00 OR USD 100.00

Bid Security Amount : INR 30,40,200.00 OR USD 50,670.00

(or equivalent Amount in any currency)

Bidding Type : SINGLE STAGE TWO BID SYSTEM

Bid Closing on : As mentioned in OIL's e-portal

Bid Opening on : As mentioned in OIL's e-portal

Bid Validity from : Bid should be valid for 120 days bid closing date.

Bid Bond Validity : Bid Bond should be valid up to 05.10.2015.

Performance Guarantee : Applicable @ 10% of Order Value.

OIL INDIA LIMITED invites Global tenders for items detailed below:

TECHNICAL SPECIFICATIONS WITH QUANTITY

S.N O	Materials Description/ Specification	Quantity (Metres)
1	CASINGS, API, SEAMLESS STEEL, THREADED & COUPLED, IN RANGE 3 LENGTH BUT MAXIMUM LENGTH OF EACH JOINT SHALL BE RESTRICTED TO 12.19 MTRS. (40 FT.) FITTED WITH PRESSED STEEL OR ELASTOMER-CUM-METTALIC (COMPOSITE) THREAD	1800

	<p>PROTECTOR.</p> <p><u>PIPE PROPERTIES:</u> Nominal O.D: 16.00 inch (406.40mm) Weight: 84.00 ppf (125.117 kg/m) Grade: P110, API 5CT Colour Code: As per API 5CT</p> <p><u>CONNECTION PROPERTIES;</u> Connection type: Semi Premium or Premium Connection I.D: Not less than the Drift dia of Pipe (14.823"/ 376.50mm) 1.A Minimum Tensile Yield Strength: 2652klbs Minimum Compression Resistance: 1326 klbs 1.B Minimum internal Yield Pressure: 5960 PSI Minimum External Pressure Resistance: 1480 PSI</p> <p>Pup Joint of above Casings: 5ft/ 1.52m long - 2 Nos. & 10ft/ 3.05m long - 3 Nos.</p> <p>Coupling for above Casings: 3 Nos.</p> <p>NOTES: 1) Premium/ Semi-Premium Threaded and Coupled connection shall be anyone of the following only. No other/ equivalent connection/ thread will be acceptable. a) DINO VAM b) Tenaris Hydrill ER</p> <p>2) The Premium/ Semi-Premium connection specified above shall be cut/ machined by Licensor/ Authorized Licensee only. In case the Casing Manufacturer/ Processor/ Threader is not the licensor of the premium/ Semi-Premium connection, they shall submit valid Authorization/ License issued by Licensor in favour of Licensee for cutting the threads.</p> <p>3) Pipe & Connection Properties (including I.D, Drift dia, Connection O.D & Connection I.D) must be indicated while bidding. Any offered casing not fulfilling the indicated Pipe & Connection properties will not be accepted.</p>	
2.	<p>CASING, API, SEAMLESS STEEL, THREADED & COUPLED, IN RANGE 3 LENGTH BUT MAXIMUM LENGTH</p>	5000

<p>2.A</p> <p>2.B</p>	<p>OF EACH JOINT SHALL BE RESTRICTED TO 12.19 MTRS. (40 FT.) FITTED WITH PRESSED STEEL OR ELASTOMER-CUM-METTALIC (COMPOSITE) THREAD PROTECTOR.</p> <p><u>PIPE PROPERTIES:</u> Nominal O.D: 13.5/8" inch (346.08mm) Weight: 88.20 ppf (131.372 kg/m) Grade: P110, API 5CT Colour Code: As per API 5CT Special/ Alternate Drift Diameter: Not less than 12.250" (311.15mm)</p> <p><u>CONNECTION PROPERTIES;</u> Connection Type: Premium, Metal to Metal Sealing, Gas tight connection Connection O.D (Special clearance): Not more than 14.435"/ 366.65mm Connection I.D: Not less than the Special Drift dia of Pipe (12.250"/ 311.15mm). Minimum Tensile Yield Strength: 2248klbs Minimum Compression Resistance: 1349 klbs Minimum internal Yield Pressure: 9080 PSI Minimum External Pressure Resistance: 4570 PSI</p> <p>Pup Joint of above Casings: 5ft/ 1.52m long - 2Nos. & 10ft/ 3.05m long – 3 Nos.</p> <p>Coupling for above Casings: 4 Nos.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. Premium Threaded and Coupled connection shall be anyone of the following only. No other/ equivalent connection/ thread will be acceptable. <ol style="list-style-type: none"> a) VAM TOP SC80 b) Tenaris Hydrill ER c) Tenaris Hydrill Blue d) Tenaris Hydrill MS 2. The Premium connection specified above shall be cut/ machined by Licensor/ Authorized Licensee only. In case the Casing Manufacturer/ Processor/ Threader is not the licensor of the premium/ Semi-Premium connection, they shall submit valid Authorization/ License issued by Licensor in favour of Licensee for cutting the threads. 	
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	<p>3. Pipe & Connection Properties (including I.D, Drift dia, Connection O.D & Connection I.D) must be indicated while bidding. Any offered casing not fulfilling the indicated Pipe & Connection properties will not be accepted.</p>	
<p>3.</p> <p>3.A</p> <p>3.B</p>	<p>CASINGS, API, SEAMLESS STEEL, THREADED & COUPLED, WITH API MONOGRAM, IN RANGE 3 LENGTH BUT MAXIMUM LENGTH OF EACH JOINT SHALL BE RESTRICTED TO 12.19 MTRS. (40 FT.) FITTED WITH PRESSED STEEL OR ELASTOMER-CUM-METTALIC (COMPOSITE) THREAD PROTECTOR.</p> <p><u>PIPE PROPERTIES:</u> Nominal O.D: 9.5/8" inch (244.48mm) Weight: 53.50 ppf (79.687 kg/m) Grade: P110, API 5CT Colour Code: As per API 5CT Special/ Alternate Drift Diameter: Not less than 8.50" (215.90mm)</p> <p><u>CONNECTION PROPERTIES;</u> Connection Type: Premium, Metal to Metal Sealing, Gas tight connection Connection I.D: Not less than the Special Drift dia of Pipe (8.50"/ 215.90mm). Minimum Tensile Yield Strength: 1710klbs Minimum Compression Resistance: 1710 klbs Minimum internal Yield Pressure: 10900 PSI Minimum External Pressure Resistance: 7950 PSI</p> <p>Pup Joint of above Casings: 5ft/ 1.52m long - 2Nos. & 10ft/ 3.05m long – 3 Nos.</p> <p>Coupling for above Casings: 4 Nos.</p> <p>NOTES: 1. Premium Threaded and Coupled connection shall be anyone of the following only. No other/ equivalent connection/ thread will be acceptable. a) VAM 21 b) Tenaris Hydrill ER c) Tenaris Hydrill Blue d) Tenaris Hydrill Wedge 563 e) Atlas Bradford TC-II</p> <p>2. The Premium connection specified above shall be cut/ machined by Licensor/ Authorized Licensee</p>	<p>7600</p>

	<p>only. In case the Casing Manufacturer/ Processor/ Threader is not the licensor of the premium/ Semi-Premium connection, they shall submit valid Authorization/ License issued by Licensor in favour of Licensee for cutting the threads.</p> <p>3. Pipe & Connection Properties (including I.D, Drift dia, Connection O.D & Connection I.D) must be indicated while bidding. Any offered casing not fulfilling the indicated Pipe & Connection properties will not be accepted.</p>	
4.	<p>CASINGS, API, SEAMLESS STEEL, THREADED & COUPLED, WITH API MONOGRAM, IN RANGE 3 LENGTH BUT MAXIMUM LENGTH OF EACH JOINT SHALL BE RESTRICTED TO 12.19 MTRS. (40 FT.) FITTED WITH PRESSED STEEL OR ELASTOMER-CUM-METALLIC (COMPOSITE) THREAD PROTECTOR.</p> <p><u>PIPE PROPERTIES:</u> Nominal O.D: 7.00" inch (177.80mm) Weight: 32.00 ppf (47.663 kg/m) Grade: P110, API 5CT Colour Code: As per API 5CT Special/ Alternate Drift Diameter: Not less than 6.00" (152.40mm)</p> <p><u>CONNECTION PROPERTIES;</u> Connection Type: Premium, Metal to Metal Sealing, Gas tight connection Connection I.D: Not less than the Special Drift dia of Pipe (6.00"/ 152.40mm). Minimum Tensile Yield Strength: 1025klbs Minimum Compression Resistance: 615 klbs Minimum internal Yield Pressure:12810 PSI Minimum External Pressure Resistance: 10780 PSI</p> <p>Pup Joint of above Casings: 5ft/ 1.52m & 10ft/ 3.05m long – 2 Nos each</p> <p>Coupling for above Casings: 3 Nos.</p> <p>NOTES: 1. Premium Threaded and Coupled connection shall be anyone of the following only. No other/ equivalent connection/ thread will be acceptable.</p> <p>a) VAM Top Casing</p>	1700

	<p>b) Tenaris Hydrill ER c) Tenaris Hydrill Blue d) Tenaris Hydrill Wedge 563 e) Atlas Bradford TC-II</p> <p>2. The Premium connection specified above shall be cut/ machined by Licensor/ Authorized Licensee only. In case the Casing Manufacturer/ Processor/ Threader is not the licensor of the premium/ Semi-Premium connection, they shall submit valid Authorization/ License issued by Licensor in favour of Licensee for cutting the threads.</p> <p>3. Pipe & Connection Properties (including I.D, Drift dia, Connection O.D & Connection I.D) must be indicated while bidding. Any offered casing not fulfilling the indicated Pipe & Connection properties will not be accepted.</p>	
5.	<p>CASING, API, SEAMLESS STEEL, THREADED & COUPLED, WITH API MONOGRAM, IN RANGE 3 LENGTH BUT MAXIMUM LENGTH OF EACH JOINT SHALL BE RESTRICTED TO 12.19 MTRS. (40 FT.) FITTED WITH PRESSED STEEL OR ELASTOMER-CUM-METALLIC (COMPOSITE) THREAD PROTECTOR.</p> <p><u>PIPE PROPERTIES:</u> Nominal O.D: 4.50” inch (114.30mm) Weight: 13.50 ppf (20.108 kg/m) Grade: P110, API 5CT Colour Code: As per API 5CT</p> <p><u>CONNECTION PROPERTIES:</u> Connection Type: Premium, Metal to Metal Sealing, Gas tight connection Connection I.D: Not less than Special Drift dia of Pipe (3.795”/ 96.39mm). Minimum Tensile Yield Strength: 422klbs Minimum Compression Resistance: 422 klbs Minimum internal Yield Pressure:12410 PSI Minimum External Pressure Resistance: 10680 PSI</p> <p>Pup Joint of above Casings: 5ft/ 1.52m & 10ft/ 3.05m long – 1 No. each</p> <p>Coupling for above Casings: 2 Nos.</p> <p>NOTES:</p>	450

	<p>1. Premium Threaded and Coupled connection shall be anyone of the following only. No other/ equivalent connection/ thread will be acceptable.</p> <p>a) VAM Top Casing b) Tenaris Hydrill Blue c) Tenaris Hydrill Wedge 563 d) Atlas Bradford TC-II</p> <p>2. The Premium connection specified above shall be cut/ machined by Licensor/ Authorized Licensee only. In case the Casing Manufacturer/ Processor/ Threader is not the licensor of the premium/ Semi-Premium connection, they shall submit valid Authorization/ License issued by Licensor in favour of Licensee for cutting the threads.</p> <p>3. Pipe & Connection Properties (including I.D, Drift dia, Connection O.D & Connection I.D) must be indicated while bidding. Any offered casing not fulfilling the indicated Pipe & Connection properties will not be accepted.</p>	
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DELIVERY :

Delivery is the utmost important of the tender. OIL has the plan to spud the well by 31.05.2015. Therefore, bidders to quote their best delivery so that above casings will reach well site before 31.05.2015.

AA. Standard Notes:

1) The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidder has to submit both the “TECHNO-COMMERCIAL UNPRICED BID” and “PRICED BID” bid through electronic form in the OIL’s e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. The “TECHNO-COMMERCIAL UNPRICED BID” is to be submitted as per Scope of Work & Technical Specification of the tender and “PRICED BID” as per the **Online Price Bid format.**

2) In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that “TECHNO-COMMERCIAL UNPRICED BID should contain details as mentioned in the technical specifications as well as BEC/ BRC and upload the same in the Technical RFX Response-> User - > Technical Bid. No price should be given in above Technical Rfx otherwise the offer will be rejected. Please go through the help document in details before uploading the document and ensure uploading of technical bid in the

Technical RFx Response-> User - > Technical Bid only. The “PRICE BID” must contain the price schedule and the bidder’s commercial terms and conditions. The prices of the items should be quoted in “Conditions Tab”.

3) **Bid should be valid for 120 days from bid closing date, failing which offer shall be rejected.** Therefore, please ignore the minimum validity mentioned in the General Terms and Condition of Global Tender (MM/GLOBAL/E-01/2005).

4) The original bid security (Amount is mentioned above and also in Rfx Parameters of the tender in OIL’s e-portal) should reach us before bid closing date and time of the technical bid. Bid without original Bid Security will be rejected. The bidders who are exempted from submitting the Bid Bond should attach documentary evidence in the Technical RFx Response-> User - > Technical Bid as per clause 9.8 of Section A General Terms and conditions for Global Tender (MM/GLOBAL/E-01/2005- july 2012). **The bid security shall be valid up to 05.10.2015.**

5) **PRICED BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNO-COMMERCIALLY ACCEPTABLE. THE TECHNICALLY ACCEPTABLE BIDDERS WILL BE INFORMED BEFORE OPENING OF THE "PRICED BID".**

6) **Price should be maintained in the “online price schedule” only. The price quoted in the “online price schedule” will only be considered. No price should be given in Technical Rfx, otherwise the offer will be rejected.**

7) 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 Custom 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-July2012 enclosed.

8). General terms and conditions of Global tender (document MM/GLOBAL/E-01/2005-) is enclosed. Special attention to Bidders are drawn to the Section E of above document.

9) **The Integrity Pact is applicable against this tender. Therefore, please attach the Integrity Pact document duly signed along with your quotation as per BRC.** The name of the OIL’s Independent External Monitors at present are as under :

(I) **SHRI N. GOPALASWAMI,I.A.S (Retd) ,
Phone: +91-44-2834-2444 (Res), 96001 44444
(Mobile).
E-mail: gopalaswamin@gmail.com**

(II) **SHRI RAMESH CHANDRA AGARWAL , IPS(Retd)
Phone: +91-9810787089, 91-1122752749.**

E-mail: rcagarwal@rediffmail.com

10. No (repeat No) Reverse Auction will be carried out against this tender.

BB. BID REJECTION / BID EVALUATION CRITERIA

A) In addition to Bid Rejection Criteria (BRC) mentioned in the General Terms and Conditions for Global Tender (MM/GLOBAL/E-01/2005) and amendments to General Terms and Conditions for Global Tender, the following Bid Rejection Criteria will be applicable against this tender.

1.0 Offers with techno-commercial bid containing prices shall be rejected outright. Technical Rfx is meant for Technical bid only. Therefore, no price should be given in Technical Rfx, otherwise the offer will be rejected.

2.0 OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder **(along with the technical bid)** duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid.**

CC. Special Notes :

GENERAL NOTES FOR CASING

1.0 SPECIFICATION :

1.1 Casings must be manufactured as per API Spec. 5CT, latest edition and must bear API monogram wherever mentioned in Casing Specifications. A copy of valid API Spec. 5CT certificate from the manufacturer shall be submitted along with the offer.

1.2 The Casings shall be brand new, unused, and of prime quality.

1.3 Casings shall be seamless , threaded and fitted with power tightened couplings as per the connections mentioned in casing descriptions/ specifications with recommended torque.

- 1.4 Range : All casings shall be supplied in range III length. However, length of each joint should be restricted to 12.19 mtrs (40 ft.) max.
- 1.5 Coupling : Couplings shall be as per specification of the connections indicated in Casing Specifications.
- 1.6 Coating : Coating shall be done as per API Spec. 5CT (latest edition) and adequately oiled to withstand sea voyage.
- 1.7 Pipe ends : Ends must be prepared as per relevant specifications of indicated connections including clear triangle mark in case it is applicable. Suitable pressed steel / Elastomer-cum-metallic (Composite) thread protectors at both ends as specified in API 5CT (latest edition) shall be used to protect the ends.

Note : Elastomer-cum-Metallic (Composite) thread protectors for pin and box end of the casing should be extra strong, closed end & of Drilltech make or it's suitable equivalent. The protector should be designed in such a way that it covers the full length of casing threads as well as casing coupling threads. It should have steel shell and elastomer to reduce impact design, to stop corrosion, to eliminate stripping and to keep thread compound active.

- 1.8 The offer must contain detailed description of the materials giving details of size, weight / wall thickness, grade, length range, type of end, API Std., end protectors etc. Insufficient description will lead to rejection of the offer.
- 1.9 **THE OFFER MUST CONTAIN THE VARIOUS PERFORMANCE PROPERTIES OF THE OFFERED PRODUCT VIZ. COLLAPSE RESISTANCE, INTERNAL YIELD PRESSURE, PIPE BODY YIELD STRENGTH & JOINT STRENGTH (THESE PROPERTIES SHOULD NOT BE LESS THAN THOSE STIPULATED BY API, BUL 5C2, LATEST EDITION IN ANY CASE). FAILURE TO COMPLY WITH THE ABOVE MAY LEAD TO REJECTION OF THE OFFER.**

2.0 MILL INSPECTION, TESTING & CERTIFICATION:

- 2.1 The following tests and inspections shall be carried out as per API spec. 5CT (latest edition) and results thereof furnished to OIL along with the supply. Mill Test certificates are to be submitted to OIL in Original.
 - i) Testing of Chemical Composition.
 - ii) Testing of Mechanical Properties.
 - iii) Hydrostatic Tests.

- iv) Dimensional testing (wall thickness, drift test, length, weight, determination and straightness).
- v) Visual Inspection.
- vi) Non-Destructive Inspection.

The manufacturer shall furnish a certificate of compliance stating that the material has been manufactured, sampled, tested and inspected in accordance with API Spec. 5CT (SR-15), latest edition. The above certificate should be submitted to OIL in Original.

- 2.2 End threading, gauging, thread inspection and certification shall be carried out as per API Std. 5B (latest edition).

3.0 IDENTIFICATION MARKING :

- 3.1 Marking is to be done on each joint strictly as per Appendix D of API Spec. 5CT.
- 3.2 Additionally, 'OIL' logo/mark and the purchase order number shall be die stamped or paint stenciled on each joint.
- 3.3 Colour coding: The colour coding shall be done as per API Spec. 5CT (latest edition). The colour band shall be 50.8 mm (2") wide and shall be encircling the pipe at a distance not greater than 2 ft. from the coupling or box with entire paint on the outside surface of coupling.

4.0 THIRD PARTY INSPECTION :

- 4.1 Inspection by an independent third party to cover the following shall be required against all casings.
 - (i) Material Identification.
 - (ii) Stage inspection at random visit basis during manufacturing.
 - (iii) Audit and endorsement of all chemical analysis and physical test reports.
 - (iv) Witness dimensional checks.
 - (v) Witness mechanical tests.
 - (vi) Witness NDT.
 - (vii) Witness hydrostatic tests
 - (viii) Visual inspection for imperfections.
 - (ix) Longitudinal defect identification.
 - (x) Transverse defect identification.
 - (xi) Wall thickness measurement.

- (xii) Grade comparison.
- (xiii) End area defect identification.
- (xiv) Thread inspection.
- (xv) Check and verify length of each joint.
- (xvi) Issue of certificate.

Note : Proper Tally sheet (in Original) indicating length of each joint of Casing with heat number of the joint should be furnished to OIL. The Tally sheet should be duly signed & stamped by the Manufacturing Mill and will be endorsed (certified) by the third party inspection agency.

4.2 The third party inspection is to be carried out by an internationally reputed inspection Agency. Bidders must indicate the availability of such a Third Party Inspection Agency in their area furnishing following information.

- (i) Name of the Inspecting Agency (OIL's clearance has to be obtained prior to engagement except **M/s. Lloyds, M/s Bureau Varitas, M/s. RITES, M/s. I.R.S. and M/s DNV.**
- (ii) All inclusive charges for Third Party Inspection per metre (to be indicated separately).

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