



ऑयल इंडिया लिमिटेड  
( भारत सरकार का उद्यम )  
**Oil India Limited**  
(A Government of India Enterprise)

P.O. DULIAJAN-786602,  
ASSAM, INDIA  
Phone : 0374-2800491  
Fax : 0374-2800533  
Email : bhavik\_mody@oilindia.in  
erp\_mm@oilindia.in

TENDER NO. SSG0264P16/01

DATE: 17.02.2016

**INVITATION TO e-BID UNDER SINGLE STAGE TWO BID SYSTEM**

Dear Sirs,

OIL invites Bids for the supply of 7" **CASING** through its e-Procurement site under **International Competitive Bidding (ICB) - 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-July2012 for E-procurement (ICB Tenders). Special attention to the bidders is drawn to Section – E of the document.
- b) Technical specifications, Quantity and Notes for the Casing & attachments 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 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/E-01/2005-July 2012 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 Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam** on or before **13:00 Hrs (IST)** on the Bid Closing Date 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.

- 1.0 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. The bid signed using other than "Class 3" digital certificate without organization name, will be liable for rejection.

- 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 13:00 Hrs (IST) on the bid closing date 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 **OIL reserves right to go for Reverse Auction process** or may finalize the tender without Reverse Auction, if required. However, the decision to conduct Reverse Auction or not will be conveyed to short-listed bidders prior to opening of price bid. Please refer Addendum-B for terms and conditions for Reverse Auction.
- 9.0 **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. 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.

Yours faithfully,

OIL INDIA LIMITED

Sd/-  
(BHAVIK MODY)  
PURCHASE OFFICER (FS)  
FOR HEAD-MATERIALS

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 : SSG0264P16/01 17.02.2016**

Tender Fee : INR 4,500.00 OR USD 100.00  
Bid Security Amount : INR 311,800.00 OR USD 4,540.00  
(or equivalent Amount in any currency)

**Bidding Type : Single Stage Two Bid System**

Bid Closing On : 20.04.2016 at 11:00 hrs. (IST)  
Bid Opening On : 20.04.2016 at 14:00 hrs. (IST)

Performance Guarantee : Applicable @10% of order value

OIL INDIA LIMITED invites Global tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
<b><u>10</u></b> 01011302	<p>CASING - API Casing, API Seamless Steel, Threaded &amp; Coupled, shall conform to API 5CT, with API monogram, in Range - 3 length but maximum length of each joint shall be restricted to 12.19 M (40 Ft.), fitted with pressed steel or Elastomer-cum-metallic (composite) thread protector on both ends.</p> <p>Size : 7" (177.80 mm) OD Weight : 29 lbs/ft (43.16 Kg/m) Group : 3 Grade : P110 Type : 1 Connection : Premium Threaded ( BOX x PIN ) Drift Diameter : Standard Coupling : Regular Color Code : One White band on pipe &amp; entire coupling White.</p>	3000	M
<b><u>20</u></b> 01011303	<p>Casing Pup Joint, API Seamless Steel, Premium Threaded &amp; Coupled, shall conform to API 5CT, with API monogram, fitted with pressed steel or Elastomer-cum-metallic (composite) thread protector on both ends.</p> <p>Size : 7" (177.80 mm) OD Weight : 29 lbs/ft (43.16 Kg/m) Group : 3 Grade : P110 Connection : Premium Threaded ( BOX x PIN ) Drift Diameter : Standard Coupling : Regular Color Code : One White band on pipe &amp; entire Coupling White. Length : 79" (2000 mm) from box end to pin End. Tolerance +/- 6" (152 mm)</p>	30	NO

**Note description for item no./nos. : 10****NOTE :**

1. The color coding (to assist weight identification at site) shown above to be applied to each length of casing near the centre of joint in the form of 2" wide band for each color specified.
2. Third party inspection is required.
3. Elastomer-cum-metallic (composite) protector for pin and box and of casing should be extra strong closed end and of Drilltech make or it's suitable equivalent. The protector should be designed in such a way in order to cover 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.

**SPECIAL NOTE :**

1. Premium threaded end connection shall be any one of the following and no other premium connections for equivalent will be acceptable.

- a) ATLAS BRADFORD TC-II
- b) HSC (High Sealed & Coupled)
- c) HUNTING SEAL LOCK-HC
- d) KAWASAKI PREMIM FOX
- e) NEW VAM or VAM TOP
- f) NIPPON STEEL NSCC-FGL
- g) TENARIS HYDRIL WEDGE 563 or  
TENARIS HYDRIL 3SB or TENARIS  
HYDRIL MS

2. The premium threads specified above shall be cut by licensor / authorized licensee only. In case the casing manufacturer / Processor / Threader is not the licensor of the quoted premium thread, they should submit the valid authorization / license issued by licensor in favour of Licensee or cutting the quoted premium threads.

3. Casing pipes, pup joints, cross-overs joints & coupling shall be purchased from same source / manufacturer for compatibility.

Bidder must quote full tendered quantity.

4. Bidder must submit the technical catalogue along with the offer indicating performance properties & details of leak resistance connection.

N.B. : Material codes 01011301, 01011302, 01011303, 01011304, 01011305 & 01011306 are to be procured from the same source.

**Note description for item no./nos. : 20****NOTE :****1.0 SPECIFICATIONS :**

- 1.1 Casing short nipples/change nipples must be manufactured as per API Spec. 5CT, latest edition and must bear API monogram. A copy of valid API Spec. 5CT certificate from the manufacturer shall be submitted along with the offer.

- 1.2 The casing short nipples/change nipples shall be brand new, unused, and of prime quality.

- 1.3 Casing short nipples/change nipples shall be seamless or ERW threaded and fitted with power tightened couplings as per API Spec. 5CT (Latest Edition).

- 1.4 Couplings : Couplings for casing short nipples shall be as specified in API Spec. 5CT (latest edition) and must be manufactured by API approved mills.

- 1.5 Coating : Coating shall be done as per API Spec. 5CT (latest edition) and adequately oiled to withstand sea voyage.

- 1.6 Pipe Ends : Ends must be prepared as per relevant API specifications including clear triangle mark in case of

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Buttress thread. Suitable pressed steel thread protectors at both ends as specified in API 5CT (latest edition) shall be used to protect the ends.

1.7 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.

1.8 The offer must be accompanied by a detailed product catalogue specifying the performance properties of the offered product. (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.

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.

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 (Latest Edition).

3.2 Additionally, 'OIL' logo/mark and the purchase order number shall be die stamped or paint stencilled on each joint. 3.3 Color Coding : The color coding shall be done as per API Spec. 5CT (latest edition). The color 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.

3.4 For Buttress threaded casing short nipples/change nipples, a 1" wide by 24" long longitudinal white paint stripe shall be placed adjacent to the triangle mark on the field end; additionally, a 1" wide by 4" long longitudinal white paint stripe shall be placed adjacent to the triangle mark on the mill end.

## **4.0 THIRD PARTY INSPECTION :**

4.1 Inspection by an independent third party to cover the following shall be required against all casing short nipples/change nipples.

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) Issue of certificate

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 the following information :

i) Name of the Inspecting Agency (OIL's clearance has to be obtained prior to engagement except in case of M/s. Lloyds,

M/s. Rites, M/s. I.R.S., Tuboscope or B.V.

ii) All inclusive charges for Third Party Inspection per metre/per nipple (to be indicated separately).

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Note:

Offers without Third Party Inspection charges, as specified above, will be loaded with maximum value towards third party inspection received for the tender for comparison. However, OIL will reserve the right not to avail the inspection at its discretion

**5.0 WARRANTY :**

The supplier shall warrant that all tubulars to be supplied in the event of an order, shall be free from all defects and defaults in materials, workmanship and manufacture and shall be in full conformity with the specified API standards. This clause shall be valid for 12 months from the date of relative consignment note. The defective materials rejected by the purchaser shall be replaced by the seller at his expense immediately.

**SPECIAL NOTE :**

1. Premium threaded end connection shall be any one of the following and no other premium connections or equivalent will be acceptable.

- a) ATLAS BRADFORD TC-II
- b) HSC (High Sealed & Coupled)
- c) HUNTING SEAL LOCK-HC
- d) KAWASAKI PREMIM FOX
- e) NEW VAM or VAM TOP
- f) NIPPON STEEL NSCC-FGL
- g) TENARIS HYDRIL WEDGE 563 OR TENARIS HYDRIL 3SB OR  
TENARIS HYDRIL MS

2. The premium threads specified above shall be cut by licensor / authorized licensee only. In case the casing manufacturer / Processor / Threader is not the licensor of the quoted premium thread, they should submit the valid Authorization / license issued by licensor in favour of Licensee or cutting the quoted premium threads.

3. Casing pipes, pup joints, cross-over joints & coupling shall be purchased from same source / manufacturer for compatibility.

Bidder must quote full tendered quantity.

4. Bidder must submit the technical catalogue along with the offer indicating performance properties & details of leak resistance connection.

N.B. : Material codes 01011301, 01011302, 01011303, 01011304, 01011305 & 01011306 are to be procured from the same source.

**Special Notes :** **DELIVERY:** Bidder to quote best delivery period.  
All items to be procured from same source.

**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

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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 minimum **180 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-July 2012).

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 **20.04.2017**. Please submit bid bond as per revised format.

5) Performance Security @10% of order value is applicable against this tender. Please refer clause 10.0 of Section A of General Terms and conditions for Global Tender (MM/GLOBAL/E-01/2005-july 2012).

6) 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".

7) Bidders to note that Govt. of India under Micro, Small and Medium Enterprises Development (MSMED) Act 2006, has proclaimed the Public Procurement Policy, 2012 with effect from 1st April, 2012 in respect of procurement of goods and services, produced and provided by micro and small enterprises, by its Ministries, Departments and Public Sector Undertakings for promotion and development of Micro and Small Enterprises. A new Clause on applicability of Public Procurement Policy for procurement of goods from Micro and Small Enterprises(MSE) in the tender is furnished vide Amendment to General Terms and Conditions for Global Tender (MM/GLOBAL/E-01/2005-JULY2012). Bidders are requested to take note of the same and to submit their offers accordingly.

8) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

9) General terms and conditions of Global tender (document MM/GLOBAL/E-01/2005-July2012) is enclosed. Special attentions to Bidders are drawn to the Section E of above document.

10) 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 Monitor at present is as under:

i) SHRI RAJIV MATHUR, IPS (Retd.),

His email ids are furnished in OIL's website, [www.oil-india.com](http://www.oil-india.com)

11) OIL reserves right to go for Reverse Auction process or may finalize the tender without Reverse Auction, if required. However, the decision to conduct Reverse Auction or not will be conveyed to short-listed bidders prior to opening of price bid.



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Special Terms & Conditions and salient features for Reverse Auction are furnished in Addendum - B. The Business Rules for Reverse Auction and Process Compliance Form are given in Addendum - B. Bidders are required to sign the Business Rules for Reverse Auction and Process Compliance Form and attach this document along with the technical bid.

**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-July2012) 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 Rejection Criteria applicable for Reverse Auction tenders:

(i) Bidders not confirming to participate in Reverse Auction.

(ii) Offers of short listed bidders, who have confirmed acceptance to OIL tender conditions on reverse auction, but do not participate in Reverse Auction, irrespective of their prices quoted in SRM price bid. (In addition to rejection of bid, the bid security will also be invoked in such case.). If a bidder does not want to quote any price below the ceiling price during Reverse Auction, their "Logged In" during Reverse Auction itself shall be considered as Participation.

3.0 The following points are deemed as "non-negotiable" and offer shall be rejected straightaway without seeking clarification in case of the following:

- i. Validity of bid shorter than validity indicated in the tender.
- ii. Original Bid Security not received within the stipulated date and time mentioned in the tender.
- iii. Bid security with (i) Validity shorter than the validity indicated in tender and/or (ii) Bid security amount lesser than the amount indicated in the tender.
- iv. In case the party refuses to sign the Integrity Pact.

**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. 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 API Spec. 5CT (latest edition).

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.

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1.5 Coupling: Couplings shall be as specified in API Spec. 5CT (latest edition) and must be manufactured by API approved mills.

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 API specifications including clear triangle mark in case of Buttress thread. 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 its 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.

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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.

3.4 For Buttress threaded casings a 1" wide by 24" long longitudinal white paint stripe shall be placed adjacent to the triangle mark on the field end; additionally, a 1" wide by 4" long longitudinal white paint stripe shall be placed adjacent to the triangle mark on the mill end.

#### 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.
- (iv) 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., M/s Tuboscope Vetco and M/s DNV.
- (ii) All inclusive charges for Third Party Inspection per metre (to be indicated separately).