

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery		
	CLIENT		INDIAN OIL CORPORATION LIMITED		
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008		Rev. No. 0	Page 1 of 13

JOB CONSTRUCTION SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY

0	21.11.2019	ISSUED FOR IMPLEMENTATION	TB	PKP / LA	LA	JMC
REV.	DATE	STATUS	WRITTEN BY	CHECKED BY	APPROVED BY	AUTHOR. BY
DOCUMENT REVISIONS						

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 2 of 13

CONTENTS

1.	GENERAL	3
2.	REFERENCE	4
3.	DEFINITIONS	4
4.	KICK OFF MEETING	6
5.	STANDARD TRACEABILITY	6
6.	FULL TRACEABILITY (As applicable)	10
7.	POSITIVE MATERIAL IDENTIFICATION (PMI)	13
8.	ATTACHMENTS	13

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 3 of 13

1. GENERAL

1.1. Scope

This specification covers requirements for the Material Identification of all piping components must be applied from site receiving up to fabrication, erection and final test. by Contractor at site

Contractor to apply the standard traceability and the full traceability (as applicable) to any piping components of the piping class which the components are part of.

This specification establishes the actions to be taken to ensure material Traceability that is the identification of piping materials during any construction phase.

This specification defines:

- the various Traceability methods;
- Traceability instruction work;
- extent of each Traceability;
- roles and responsibilities of personnel involved in Traceability activity.

1.2. Fields of application

This specification must be applied at material receiving and storage in the site warehouse and during site/shop piping prefabrication and erection activity.

This specification is applied to:

- piping loose component;
- piping shop fabricated and field erected;
- piping wholly field fabricated and erected.

The following steps of piping traceability are included:

- receiving at site/shop;
- storage;
- registration;
- identification;
- marking;
- inspection;
- coordination of staff involved and certification request;
- certification records.

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 4 of 13

1.3. Exclusions

- 1.3.1. Traceability, among NDE/Heat Treatment records, joints, Isometric drawings, and welders is excluded from this specification.

These activities shall be coordinated and recorded according to the following:

- Job Construction Specification for Welders Management 080557C-000-PP-821

- 1.3.2. No metallic piping components are excluded from this specification.

2. REFERENCE

2.1. Documents

The following documents are correlated with following documents:

- Piping Construction Quality Control Plans
- Specification for Site Coordination & Communication 080557C-000-PP-805
- Job Specification for Material Receiving, Inspection, Handling Storage & Preservation 080557C-000-PP-807
- Specification for Positive Material Identification 080557C-000-PP-804
- Specification for colour Coding of piping materials By Vendors 080557C-000-SP-1390-009

All other documents referenced in this specification shall be applicable.

3. DEFINITIONS

3.1. Traceability

Traceability means a correct identification of original materials and material composition during construction phases and in particular after installation, using “stamping, etching and stencilling” as methods of implementation.

TARGET: Measures intended to prevent the installation of incorrect materials during construction and piping assembling of plant.

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 5 of 13

Traceability can be implemented using:

3.1.1. Colour code: STANDARD TRACEABILITY

Colour code, fixed by Engineering, is used only for an easy identification to permit a quick material handling/segregation and visual check/monitoring during construction phases.

3.1.2. Identification code: STANDARD TRACEABILITY

Identification code, fixed by Engineering, is used to establish a correspondence between each piping component and the ISO's bill of material.

This code permits a full material tracking during the all phases:

- Engineering: ISO's bill of material and take-off
- Procurement: material requisitioning/P.O.
- Shipping: Inspection, Shipping release notes and packing list,
- Construction:
 - Warehousing: receiving inspection, segregation and storage, software material management input data and delivery voucher to site.
 - Piping engineering: ISO's prefabrication analysis
 - Erection: piping component tracking versus ISO's drawing.

3.1.3. Tracking code: (TOTAL) FULL TRACEABILITY

Tracking code ensures the identification of installed material by means of the twofold correlation of the heat number and related Material Test Report (MTR) issued by the Manufacturer.

3.1.4. PMI: POSITIVE MATERIAL IDENTIFICATION

PMI ensures a correct installation of materials/weld deposit throughout chemical verification, at any construction phases, of distinctive (s) component (s) of requested alloy steel.

3.2. Definition of the Party

Wherever used in this procedure, the following words shall have the meaning as given hereunder

“OWNER or IOCL or CLIENT” shall mean INDIAN OIL CORPORATION LIMITED

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 6 of 13

“CONSULTANT or PMC” shall mean TECHNIP INDIA LIMITED

“CONTRACTOR” shall mean the bidder selected by the OWNER for performing the scope of works specified in the Tender documents.

“AUTHORISED REPRESENTATIVE” shall mean OWNER’s/CONSULTANT’s representative authorized to act for and on behalf of OWNER/CONSULTANT, as the case may be

“VENDOR” shall mean any third party supplying any of the equipment/materials for setting up the Plant.

“PROJECT” shall mean Sulphur Recovery Unit and Additional Tanks Project, Paradip Refinery

“PLANT” shall mean the units and facilities comprised in the project, and if divided into different packages for the award of Contracts.

“UNIT” shall mean a particular process unit etc. which forms a distinct operating system and a part of the plant.

"WORKS" means and includes any and all works and services undertaken by the CONTRACTOR.

"MATERIALS" means equipment, materials, chemicals, spare parts, tools etc. to be provided by the CONTRACTOR in accordance with the CONTRACT, which are for incorporation into the Temporary or Permanent Works.

“SUB-CONTRACTOR” shall mean Sub-Contractor engaged by CONTRACTOR

4. **KICK OFF MEETING**

CONTRACTOR QC Manager and CONSULTANT QC Manager/Personnel shall define and agree working details/instructions to implement this Traceability procedure during a dedicate Kick Off Meeting, before starting of shop/field activities.

5. **STANDARD TRACEABILITY** (Colour and identification code)

5.1. **Fields of application**

Standard Traceability is applied to all piping components.

Standard Traceability is applied/checked during:

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 7 of 13

- warehousing
- piping prefabrication;
- piping erection.

The colour coding established for the identification of piping components is mentioned below :

5.2. Colour Coding

The colour code shall be used for material identification. Color coding is intended to supplement standard marking required by ASME, MSS, ASTM, API or other codes and/or specifications. The colour code shall be marked at **Manufacture shop itself**. The main purpose of color coding is to simplify identification of piping elements during storage and after the pipe has been cut for fabrication or returned to stock.

All pieces shall be marked with a stripe of water-proof paint / ink in accordance with the colour code specification. The painted stripe shall be executed as per the relevant detailed supply specification for each piping component category.

Surfaces to be color coded shall be clean, dry and free from oil, grease, rust, scale and other foreign matter. The surface preparation shall be according to manufacturer's paint. Colour coding paint shall not be applied to any machined surface, including welded surfaces, weld bevels, etc., nor on any surface intended for welding.

The paint or ink used for austenitic stainless steel or nickel alloy steel shall not contain any chlorides, nor shall it contain zinc, lead, halogens or other harmful metal or metal salts that may cause a corrosive attack.

One or more stripes of water-proof paint, shall be provided according to the Specification Specification for Color Coding of Piping **Materials 080557C-000-SP-1390-009**

5.3. Identification

Correct identification of material/spool shall be implemented by color coding and/or tagging such as clarified in this table:

IDENTIFICATION TABLE - 5.3.1.

Description	Identification			
	Color code	Tagging codes		
		Identification code ⁽⁵⁾	Material ⁽⁶⁾ Specification	Spool numbering ⁽⁷⁾
Material typology ⁽¹⁾		x	x	
Material dimensions ⁽²⁾		x		

 	PROJECT	Standby SRU & Additional Tanks IOCL Paradip Refinery		
	CLIENT	INDIAN OIL CORPORATION LIMITED		
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 8 of 13

Description	Identification			
	Color code	Tagging codes		
		Identification code ⁽⁵⁾	Material ⁽⁶⁾ Specification	Spool numbering ⁽⁷⁾
Material grade/std ⁽³⁾	x	x	x	
Material supply status ⁽⁴⁾	x	x	x	
Fabricated spool				x

Notes:

- 1) Pipe, elbow,
- 2) Diameter/thickness
- 3) API 5L Gr B, A53 Gr B,
- 4) Seamless, welded, normalized,
- 5) As defined in Contractor Software
- 6) As defined by applicable ASTM, API, etc.
- 7) As agreed by CONTRACTOR & CONSULTANT.

5.3.1. Warehouse Reception

- Prior to accepting the material, the warehouseman shall check the type and quantity of materials against the packing list and the purchase order.
- Warehouseman shall restore identification colour coding or tagging at site when this is not properly applied or damaged during shipping.

Note: The identification code is usually marked by Manufacture (Contractor has to provide this color code requirement to the Vendor during ordering) .

The warehouseman is responsible for marking the identification code during material acceptance before delivering the same to the piping fabrication

- Materials which cannot be identified shall be stored in a separate “QUARANTINE AREA” and shall be properly identified by the sign “HOLD”.
- Quarantined material may not be utilized as plant erecting material.

5.3.2. Marking

When the warehouse staff or CONTRACTOR'S personnel should restore or apply the identification on piping components, the following methods shall be used:

- “Low stress” punch.
- Paint markers, with insoluble water ink that will not attack or harmfully affect the material at ambient or elevated temperature. Ink shall be free from halogen (bromine, chlorine, fluorine, iodine), lead, sulphur, zinc, cadmium, mercury or other harmful compounds.

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 9 of 13

- Punched metal sheet labels fastened with an adequate wire on piping.
- Note:** This method is advisable only for temporary use or for special materials

Marks shall be applied in the following locations:

- pipe: 75mm from one end of the outer surface
- welds: adjacent to the welder's identification marker on the weld.
- fittings, forging, or casting: adjacent to the Manufacturer's marking.

5.3.3. Preservation

Color and identification codes shall be maintained on loose materials and or spools during all fabrication/erection activities, including shot-blasting and priming.

Fabrication activities requiring preservation of identification are:

- cutting
- furnace Post Weld Heat Treatment (PWHT)
- shot blasting and priming

Raw Loose components to be primed

Straight pipes and piping components, with the bevelled ends, shot blasted and primed before fabrication/erection should have their ends, 50 mm at least, protected by tape to avoid any contamination during welding.

CONTRACTOR first of all shall provide to keep full identifications as follow:

- transcribing with paint marker (see point 5.3.2) into the inner part of piping the identification code, and applying a short line with color code (when possible);
- punching the identification code (see point 5.3.2) and applying a short line with color code directly onto the end of piping component and protecting it with adhesive tape;
- using metal labels fastened to the piping part;
- using metal labels tack welded to the piping part. This operation must be authorized by SITE MANAGEMENT.

After primer application CONTRACTOR will restore the identification code and color code.

Prefabricated Spools to be primed

The CONTRACTOR, in charge of piping prefabrication, will take care to keep the identification of spools during the various fabrication phases, as follows:

- Before cutting the pipe (or elbow), the CONTRACTOR will identify each loose part by marking the identification code as per point 5.3.2;

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 10 of 13

- After welding each pre-fabricated spool will be identified by the isometric number and a sequential number. The identification will be applied, when possible, with adequate marker and circled, to be more clear, with the same marker;
- The identification of spools to be shot blasted and primed shall be transferred by marking on one end of the spool according to point 5.3.2 and protected by tape. After spool priming primary identification will be restored;
- Other methods may be submitted by CONTRACTOR to CONSULTANT/OWNER for approval;
- Moreover the CONTRACTOR shall protect the bevels with appropriate masking tape before applying the primer.

6. **FULL TRACEABILITY (As applicable)** (Tracking code)

6.1. **Scope**

The scope of Full Traceability is to identify installed material by means of the twofold correlation of the Heat Number and related Material Test Report (MTR) issued by the manufacturer

Full Traceability is performed in addition to standard Traceability and does not replace PMI

6.2. **Fields of Application**

In order to avoid possible mistakes of appraisal and/or interpretation the Full Traceability will be applied to all piping lines with a diameter $\geq 2''$.

The piping lines with a diameter $\leq 1\frac{1}{2}''$ shall be traced by the standard method.

Full Traceability is not applied to the following accessory components: bolting, gaskets, temporary strainers, etc.

These components shall be traced by the standard method.

6.3. **File Number**

6.3.1. **File Number Scope**

The File Number scope is to quickly find in the material certificate archives the Material Test Reports of each material Heat Number relevant to piping materials utilized in the Plant.

6.3.2. **File Number Assignment**

The warehouse team shall assign to each Material Test Report a File Number that univocally identifies the component with Heat Number, Material Test Report, material

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 11 of 13

description/dimension, Identification Code and not mandatory but preferable if also MR/PO/Packing List number and supplier name will be mentioned.

The warehouse team will fill the above information in the suggested Form QC22 and will write on the Material Test Report (MTR) the assigned File Number (FN).

Note: If same MTR makes reference to different materials (description or dimensions) different FN for the same certificate shall be assigned for each different material.

As many copies of the MTR should be provided and positioned into the binder, according to FN sequence, as different FN arising for each MTR.

The File Number is a 4-digit number XXYY, in which:

XX = the number of the binder containing the MTR.

YY = the MTR position inside the binder.

6.4. Warehouse Reception

In addition to checking the type and quantity of materials against the packing list and purchase order and prior to accepting the material, the warehouse team shall immediately verify that the MTR matches the Heat Number marked on the pieces.

Materials which cannot be identified by its Heat Number and/or MTR shall be stored in a separate "QUARENTINE AREA" and shall be properly identified and segregated with "HOLD" tag.

Such material shall not be utilized as Plant erecting material.

6.4.1 Marking

Accepted materials shall be stored in warehouse areas only after the warehouse team has checked the Heat Number marking on each loose component.

6.5. Material Delivery

The material as per point 6.4.1 can be delivered to the Site for fabrications.

6.6. Heat Number Preservation

Full Traceability shall be maintained throughout all work phases. Suitable measures shall be taken for the purpose.

The following activities make to lose the Traceability:

- cutting;

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 12 of 13

- heat treatment;
- shot-blasting and painting.

Before cutting, the Heat Number - which makes the material traceable - shall be indicated on the portion where it is lacking. Scrap shall be kept separate and traceable by transcribing or punching the Heat Number on them.

Prior to local heat treatment, the Heat Number shall be repeated on an area away from the heat.

Before shot-blasting and priming pipes or loose material, the Heat Number can be preserved through the technique reported in point 5.3.3

Before shot-blasting and priming complete spools, or before heat treatment in furnace, the Heat Number shall be transferred on the (attached) Form W10 produced for each isometric.

6.7. Heat Number Transfer on Site

Prior to the pressure test of any test circuit, the Heat Number marked on loose components, erected directly on site, shall be transferred on Form W10 produced for each isometric.

Any modification to the isometric sketch after pressure test shall be performed using traceable material.

The W10 Form shall also be revised.

6.8. Conversion of Heat Number to File Number on W10 Form

As specified in point 6.6. & 6.7. the Heat Number is recorded in W10 Form therefore by QC22 Form , which include both information Heat Number and relevant File Number, is possible the conversion from Heat Number to File Number on W10 Form.

Remarks:

- The filled W10 Forms and relevant isometrics with welded identified joints, utilized as welding/materials map, will allow the Full Traceability of welding NDE/Materials for installed piping lines.
- W10 Form will be prepared by electronic sheet; it will be possible to split W10 Form in two sections: W10/1 for NDE Traceability and W10/2 for Material Traceability.

In this case CONTRACTOR shall propose new Forms for CONSULTANT examination and approval.

 	PROJECT		Standby SRU & Additional Tanks IOCL Paradip Refinery	
	CLIENT		INDIAN OIL CORPORATION LIMITED	
STANDARD SPECIFICATION FOR SITE PIPING MATERIAL TRACEABILITY	Project No. 080557C001	Document No. 080557C-000-JSC-0000-008	Rev. No. 0	Page 13 of 13

7. POSITIVE MATERIAL IDENTIFICATION (PMI)

7.1. Scope

PMI checks a correct installation of materials/weld deposit throughout chemical verification of distinctive component(s).

PMI is not a substitute for Material Test Reports, nor vice versa.

PMI does not replace “Standard Traceability” or “Full Traceability”.

7.2. Report

At the end of each inspection, a report shall be issued, signed by the attending inspectors on attached Form QC 21.

Reports Traceability and filing shall be assured according to the following:

- Welding/piping: PMI inspection report (QC21) of welds and base metal shall be recorded on Form W10 (NDE/PWHT/HT/PMI and material traceability summary) and filed for progressive number;
- Instrument: PMI inspection report of instrument shall be filed separately from piping and welding reports;
- Filler metal: PMI inspection report of filler metal shall be filed for progressive number together with welding reports;
- Others: PMI inspection report shall be filed for progressive number together with Piping reports.

8. ATTACHMENTS

ATT. 1 – QCF QC22 – FILE NUMBER RECORD

ATT. 2 – QCF W10 – NDE / PWHT / HT / PMI AND MATERIAL TRACEABILITY SUMMARY

ATT. 3 – QCF QC21 – PMI REPORT



COMPANY:

QC 22

SH. OF



QC 22 N° _____

[illegible]

TECHNIP INDIA LIMITED

					PROJECT:														
					COMPANY:														
QUALITY CONTROL FORM W 10					PROJ. No.:			QCF REV. 0			SH. ____ OF ____								
NDE / PWHT / HT / PMI AND MATERIAL TRACEABILITY SUMMARY					CONTRACTOR:					W 10 N° (SEE ISO N°)									
ISO N° _____		SH. ____ OF ____		NDE (Ref to W 09) _____		HEAT TREAT. REQUIR.		Y <input type="checkbox"/>		N <input type="checkbox"/>									
PIPING CLASS _____				MATERIAL _____		PMI		Y <input type="checkbox"/>		N <input type="checkbox"/>									
LEGEND <div style="display: flex; justify-content: space-between;"> <div> RTR = RADIOG. REPORT N° UTR = UT REPORT N° REP = REPAIR REPORT N° </div> <div> PTR = PT REPORT N° MTR = MT REPORT N° </div> <div> (1) B = BUTTWELD; S = SOCKET WELD; EW = EXTERNAL WELD (2) P = PREBRICATION; E = ERECTION (3) A = ACCEPTED; R = TO BE REPAIRED; C = TO BE CUT; CM = CUT TO MODIFY </div> </div>																			
JOINTS			BASE MATERIAL TRACEABILITY				PMI	WELDER IDENTIF.	WPS N°	CONTROL AND EVALUATION CERTIFICATION									
N°	Type (1)	P/E (2)	HEAT NUMBER	MANUFACTURER	IDENT CODE	SHORT DESCR.	REPORT N°			VISUAL (3)	RADIOGRAPHIC / ULTRASONIC TEST			PT / MT			PMI	PWHT	HT
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

INSPECTORS		CONTRACTOR		PMC		OWNER			
PHASE		PREFA.	ERECT.	PREFA.	ERECT.	PREFA.	ERECT.	PREFA.	ERECT.
NAME									
SIGNATURE									
DATE									

 		PROJECT:														
		COMPANY:														
QUALITY CONTROL FORM QC 21		PROJ. No.:				SH. 1 OF__										
POSITIVE MATERIAL IDENTIFICATION REPORT		CONTRACTOR:														
PMI CARRIED OUT: SHOP <input type="checkbox"/> FIELD <input type="checkbox"/> BEFORE INSTALLATION <input type="checkbox"/> AFTER INSTALLATION <input type="checkbox"/>																
EQUIPMENT: _____		ITEM DESCRIPTION _____														
PIPING COMPONENT: _____		SUPPLIER: _____														
		MR/PO: _____				REV: _____										
LINE/DRAWING Nr: _____		PIPING SUPPORT: _____														
FILLER METAL: _____ Ø _____		AWS: _____														
ALLOY ELEMENTS TO BE CHECKED: _____																
PMI EQUIPMENT: { _____ :		_____														
{ _____ :		_____														
ANALYTICAL LABORATORY METHODS: _____																
CALIBRATION:	YES <input type="checkbox"/>	NO <input type="checkbox"/>														
SAMPLING:	10% <input type="checkbox"/>	100% <input type="checkbox"/>		____ % <input type="checkbox"/>												
ITEM TO BE TESTED	IDENT CODE	ALLOY ELEMENTS													DATE & INITIALS	
		Cr	Ni	Mo	Cb/Nb	Ti	V	Cu	Al	C	Co	W	FE			
TEST RESULT:		ACCEPTABLE <input type="checkbox"/>		REMARKS:												
		NOT ACCEPTABLE <input type="checkbox"/>														
INSPECTORS		CONTRACTOR		PMC		OWNER										
NAME																
SIGNATURE																
DATE																



COMPANY:

SH. 2 OF ____

CONTRACTOR:

TEST RESULT:	ACCEPTABLE	<input type="checkbox"/>	REMARKS:
	NOT ACCEPTABLE	<input type="checkbox"/>	

TECHNIP INDIA LIMITED