Confirmation Sheet (Deaerator)

Ref.no.: HEE-DEA-CONFIRM-1

S.No	Description	270 MW	500 MW	600 MW
01.	Storage Tank sections	3	3	3
02.	Deaerator Heater	1	1	1
03.	Spool piece	4 nos. (2 sizes) Dia. 457-2 nos. Dia. 610- 2nos.	4 nos. of dia. 914	4 nos. of dia. 914
04.	Backing rings	8 nos. (2 sizes) Dia. 426- 4 nos. Dia. 579- 4 nos.	8 nos. dia. 880	8 nos. dia. 880
05.	Bottom plates for saddles	3 nos.	3 nos.	3 nos.
06.	Heater supports	2 nos.	2 nos.	2 nos.
07.	SS plates for Sliding supports	4 nos.	4 nos.	4 nos.
08.	Orifice assembly	3 nos.	4 nos.	4 nos.
09.	Loose items other than those mentioned in Sl. no. 03 to 07 for Storage tank eg: Isolation valves, impulse piping, Counter flanges, gaskets, fasteners	As per BOM	As per BOM	As per BOM
10.	Loose items other than those mentioned in Sl. no. 08 for Heatereg Isolation valves, impulse piping, Counter flanges, gaskets, fasteners	As per BOM	As per BOM	As per BOM
11.	Standpipes	2 nos.	2 nos.	2 nos.
12.	Loose items for Standpipes eg: elbows, connecting piping, Isolation valves, Counter flanges, gaskets, fasteners	As per BOM	As per BOM	As per BOM
13.	Platform Base plates & other loose items	As per BOM	As per BOM	As per BOM

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Form No.



PRODUCT STANDARD HEAT EXCHANGERS HYDERABAD

No: HE 5 1474

REV. NO. **01**

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SPECIFICATION

FOR

DEAERATORS

Prepared: Approved: Date:

UMESH MENON TSN BHARGAV 02.02.2011

TD-106-1 Rev-5 Form No.



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HYDERABAD

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1.0 Scope:

This specification covers supply of Deaerator in complete assembled condition as per the materials specified and documents enclosed with technical enquiry, the details of which are as follows. In other words, Vendors to supply Deaerators with their own materials as per BHEL design (Refer Sl. no.5.0 for list of drgs./ documents applicable). Loose items required to be supplied along with main equipments shall be packed in crates

2.0 <u>Scope of Assemblies to be supplied</u>:

Sl. No.	Sub assembly
1.	Deaerator Storage tank:
	In one or more than one piece depending on the length as
	indicated in the drg.
2.	Deaerator Heater in one assembly
3.	Loose items such as Heater supports, Spool pieces, Backing
	rings, Bottom plates for Saddles, SS plates, Foundation bolts (if
	included in BOM for vendor), Orifice assembly, impulse
	piping, isolation valves, Counter flanges, Elbows and Fasteners
4.	Stand pipes along with loose items
5.	Platform materials as per BOM and Platform assembly drg.

Scope of work:

- i) Procurement of all materials such as Plates, Pipes, Angles, Channels, Fasteners, ANSI Flanges, Gaskets, Couplings, Plugs. Only Spray Valves, Trays and Name Plate will be given as free issue materials by BHEL.
- ii) Manufacturing.
- iii) Inspection, NDT & Testing.
- iv) Painting
- v) Preservation & Packaging
- vi) Packing of loose items and Platform materials in crates for dispatch to site. Vendor to forward list of items in each crate to site as well as to BHEL.

f.Doc.	Prepared:	Approved:	Date :
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4.0 <u>List of applicable standards</u>:

Non BHEL standards

- ASME Sec II Part A (Latest edition and addenda)
- ASME Sec VIII Div 1. (Latest edition and addenda)
- ANSI B16.5 for pipes flanges, flanged fittings. (Latest edition)
- ASME Sec IX for welding standards. (Latest edition and addenda)
- ANSI B36.1 for Pipes(Latest edition)
- Heat exchange Institute (HEI) Standard for Deaerator (Latest edition and addenda (If indicated as design code in the assly. drg.))

BHEL standards:

- i. Standard for Unspecified tolerances- HE71036 R02
- ii. Hydro test standard- HY0852061 R02
- iii. Dished Ends & Spherical Dishes: HE51370 R00.

5.0 <u>List of applicable Drawings/ Documents:</u>

S.No.	Description
1.	Manufacturing drgs. as per drawing list
2.	Bill of Material
3.	Drawings for forming of Dished Ends & Spherical Dishes
4.	List of Vendors for Dished Ends & Spherical Dishes

6.0 Materials specification:

Material	Standard	Remarks
CS Plates	BQ to SA 516 Gr. 70 with S1, S5 and S8.	For pressure parts (Shell, Dished ends, Spherical dishes, Support pads and RF Pads)
SS Plates	SA240 TP304	Orifice plate, Water box, Tray enclosure, Impingement plate etc.
CS Pipes	SA106 Gr.B	Nozzle pipes, Stand Pipes
SS Pipes	SA312 TP321	Disperser pipe, Vent pipe etc.
CS Couplings	SA350 LF2/ SA105	Stubs for Pressure gauge/ Transmitter/ Temperature gauge/ Sampling & Dosing conn, Stand Pipe Couplings

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SS Couplings	SA182 F304	Stubs for Vent conn.
Plugs	SA105	For Couplings
CS	SA193 B7/	For fixing impingement plate and
Fasteners	SA194 2H	Foundation Bolts
SS	SA193 B8/	For Water how Travensly, etc.
Fasteners	SA194 Gr.8	For Water box, Tray assly. etc.
Gasket	Non Asbestos MSW	For Flange conn.
SS Valve	SA351 Gr.CF8	For Orifice assly.
CS Flange	SA105	Nozzle Flange
SS Flange	SA182 F310	For Orifice assly.
SS Angle/ Split cotter pin/ Hold down rod	SS304	For Tray assly.
Angles, Channels, Beams	IS226	For Tray assly. & Initial Heating pipe support and Platform
Bar Grating	IS2062 Gr.B	Galvanized
U-Clamps with nuts	IS226/ Nuts as per IS1364	Galvanized
CS rounds & Pin	IS1570 (for rounds), IS6688 (for pin)	Manhole conn.
.Elbows - CS	SA234 WPB	Stand Pipe, over flow
Chequered Plate	IS3502	For Platform
MS Tube	IS1239PT1	For Platform
Washer	IS2016	

7.0 <u>Materials for Non-pressure parts</u>:

Whenever CS is mentioned on the drawing, it shall be IS2062 Gr. B for plates. Any non-pressure part welded to pressure part shall be same as the pressure part material.

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8.0 <u>Inspection</u>:

- a) Access to Quality Control Inspector / Customer / BHEL representative shall be provided by the vendor / for all process quality control activities as well as for monitoring progress of job as per agreed delivery schedule. Regular feedback from vendor shall be communicated to BHEL about the progress of individual job. Inspection call shall be communicated well in advance to accommodate travel time for reaching vendor works using all modes of available communication like fax, email, telephone etc. to sub-contract department and/or inspection agency.
- b) The raw materials for manufacture shall be as per the list of applicable national / international standards. Vendor shall procure raw materials from approved list of vendors, which shall be indicated, by the vendor at the time of bidding. Chemical composition of plates shall be as per the specification. Vendor to follow the Quality Plan (QP) furnished by BHEL (The relevant QP for inspection stages by Customer will be forwarded to Vendor after placement of PO)

9.0 **Hydrostatic Test:**

- a) Hydrostatic testing of Storage Tank (if applicable at works) and Heater shall be done separately. (Reference document shall be BHEL QP)
- b) Water for Hydro test shall be salt free and shall not contain chlorides more than 40 ppm.

10.0 Rejection & Replacement:

In the event of any material proving defective in the course of further inspection / hydro testing at erection site / BHEL works, the same shall be rejected not withstanding any previous acceptance.

The supplier shall replace the material at their own cost and the rejected material shall be returned to the vendor after all the commercial conditions are satisfied.

11.0 Data Folder:

Fabricator shall supply 5 bound copies of data folders containing the following information:

- a) As built dimensional report.
- b) Certified material test report, showing location, heat numbers, chemical analysis and physical properties of all materials used in the fabrication of the Deaerator. Test certificates of materials supplied by BHEL (if any) will be passed on to the fabricator for completion.
- c) Welding & testing Plan.

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d) Reports of tests made on welded test plates, if any such tests are made.

- e) Hydrostatic and other test reports.
- f) Engraving of Name Plate.
- g) Records of radiographic examination.
- h) Photostat copy of approving agency's certificate, if any.
- i) Any other documentation as required.

11. Guarantee Period:

The fabricator shall, at his own expenses make necessary repairs and/or replacements without delay if any defects due to inferior materials or workmanship develop under operating conditions within 12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier.

Important notes:

General

- *Inspection by (BHEL QC/ Lloyds/ BHEL appointed TPI/ Customer/ Customer appointed Consultant- Reference document: BHEL Quality Plan (QP))
- a) Adhere strictly to the notes/remarks/instructions mentioned on the individual, sub-assy. and main assly. drgs.
- b) All materials of the equipment shall confirm to Part lists and attestation by '*'. Review of records by Customer if required
- c) The complete equipment shall be manufactured as per ASME Sec.VIII, Div.1- & HEI Standards (if indicated in drg)
- d) Welder's qualification shall be done as per ASME Sec. IX. Only approved welders by Lloyds shall be employed on the job.
- e) Welding procedure approval by BHEL QC and Lloyds.
 - i) Check for the identification of all welds (weld No. shall be punched for correlation with welder) inspection by QC and Lloyds.
 - ii) Qualified painters shall only be used on the job.
 - iii) Root run of all L seams and C- seams of shells and fabricated Nozzles shall be back gouged and examined by P.T and inspected by '*' as per QP.
- f) MT & PT Test shall be carried out on nozzle to head welds and nozzle to shell welds. Inspection by '*'.
- g) For weld details follow latest revision of drg. no. 2-163-10-00014
- h) Use spiders for removing ovality for fit up and during welding of C seams of shell segments.
- i) Prior to rolling of shell plates, remove the mill scales by shot/grit blast.
- j) Inside edges of all projected nozzles shall be round off.

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k) Before flame cutting of nozzle holes, assemble Spiders at open ends and Stiffening rings inside the shells to restrict distortion.

- 1) Match marking of inter connecting nozzles: Down comers and Equalizers nozzles of Storage tank shall exactly match with corresponding nozzles on Heater .Before closing these nozzles with end covers, a Trial assembly of storage tank to Heater shall be carried out. (Fixture shall be made by Vendor so that the location of Down comer and Equalizer can be transferred to the other tank for making openings so as to avoid any misalignment at site during erection)
- m) <u>Match marking of Storage Tank sections</u>: Trial assembly of all Storage Tank sections shall be carried out and match mark in presence of QC, Lloyds and Customer (if required)

Checks for Deaerator Heater

- a) For detailed assly. of Trays, refer Tray assly. & Tray assly. details
- b) Spray valves and Tray plates shall be stored properly at vendor's works, before assly. with Heater
- c) Spray valves are to be assembled prior to the assembly of Trays.
- d) Check for welding of stoppers to hold down rods and assly. of hold down angles with cleats.
- e) Check to ensure welding of double lock nuts for spray valves, hold down rods and nut pos. with cleats and hold down angle.
- f) Check to ensure fixing of split pin thro' the top lock nut and stem of the spray valve before assembly of spray valve.
- g) Check to ensure positioning of split pin at the bottom of hold down rod.
- h) Painting scheme: Shall be as per assly. drg.Note: Qualified painters shall only to be engaged on the job.
- i) Cleaning, painting & packing for dispatch including blanking of all openings inspection by BHEL QC & Lloyds.
- j) Ensure that all openings are blanked while dispatch to prevent ingress of foreign matter and to avoid damage to the terminating flange faces. All exposed machined parts shall be coated with suitable protective.
- k) Check for preservation of weld edge preparation.

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Rev.	Date	Revision details	Revised by	Approved by
00	02.02.2011	First issue	UM	TSNB
01	17.02.2011	PWHT removed	UM	TSNB

List of Vendors for Dished ends

S.No.	Vendor details
01.	ICEM- Mumbai
02.	Metal Engineers, Balanagar
	Hyderabad
03.	Dynamic dish, Jeedimetla,
	Hyderabad
04.	Hyderabad Metchem
	Hyderabad
05.	Satya Fabricators
	Hyderabad

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SPECIFICATION FOR DISHED ENDS

- 1.0 Material: The material shall confirm to SA 516 gr. 70 (As per ASME Section II Part A, year of edition and addenda, as per Drawing/ Enquiry/ P.O). The plate shall meet the requirements of S1, S5 and S8 of supplementary requirements of ASME.
- 2.0 Code of Construction: The code of construction shall be ASME section VIII division 1, year of edition and addenda as per drawing/ Enquiry/ P.O.)
- 3.0 The dished ends up to a diameter of 1600 mm shall be pressed from a single plate by coldforming/hot-forming/spinning. In case of spinning method is adopted, the central hole shall be plugged and radiographed 100%.
- 4.0 For dished ends above 1600 mm, a weld joint is permitted and the butt weld shall be fully radiographed before forming. MPI/DPT shall be carried out on weld edge preparation, back chip area and weld. Qualified welders using approved procedures, as per the requirements of ASME Section IX, latest edition shall carry out the welding. Production test coupon for weld shall be prepared and tested as per the requirements of section IX of ASME.
- 5.0 Tolerance: As per code of construction (para 2.0 above)
- 6.0 When dished ends are ordered in pairs for a single shell, it is essential that the diameters of the two dished ends are matched within 3 mm and are clearly marked for identification to ensure proper alignment in further fabrication at BHEL.
- 7.0 Thickness: The thickness specified is minimum thickness, which shall be ensured, after forming, throughout the surface of the dished ends including the knuckle portion. Minimum thickness shall be measured all over the area after removal of scales.
- 8.0 Heat Treatment: Cold formed dished ends shall be normalized. Hot-formed dished ends shall be normalized, irrespective of the forming of the dished ends in normalizing range. Normalizing charts duly certified by the inspecting agency should be submitted. Dished end mechanical properties shall be proved on the test coupons, after the coupon is subjected to same heat treatment as the dished ends including the final normalization.
- In case the dished ends with butt welded joint in the blank, the following additional test shall be carried out;
- The butt weld shall be 100 % radiographed after forming a.
- b. Both inside and outside surface of weld seam shall be MT examined after normalization

Ref. Doc.

Revision:

Refer to record of revision

Prepared:

B. Srinivas

ymwas an Date:

02/04/02

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HYDERABAD PT/MT shall be carried out on the entire surface of the dished ends after forming. If required, as

drawing/ Enquiry. /P.O., UT shall be carried out on the entire surface of the formed dished end, as per requirement of SA 435 of ASME code. Acceptance standard shall be as per SA 435.

- 10.0 Dished ends shall be protected against corrosion by a temporary coat of rust preventive.
- 11.0 Three lifting lugs at 120 deg apart, of suitable sizes of the same material as dished ends shall be provided for handling. Qualified welders using approved procedures, followed by PT examination shall carry out the welding.
- 12.0 Inspection: The inspection shall be as follows
- For HP Heater Dished ends: By DOB and LRIS and certification in IBR form III C.
- For others: By LRIS

The scope of inspection shall be as per the approved quality assurance plans (HY/ HE/ 016/ DE).

- 13.0 The following test certificates/ information shall be furnished by supplier duly attested by the inspection agency.
- Mill test certificate of raw material & test coupon (if material is not free issue) a.
- Process of manufacture. b.
- Minimum thickness achieved. C.
- d. Normalizing charts
- As built dimensions of the dished ends. e
- Mechanical test results. f.
- Radiography results(if applicable) g.
- h. UST results (if applicable)
- PT & MT examination report.
- j. IBR form IIIC (if applicable)
- 15. IDENTIFICATION: The following identifications shall be hard punched.
 - Suppliers Monogram.
 - 2. Dish number
 - Material Specification
 - Heat & Plate Number
 - P.O Number
 - Inspection Agency/ Personnel stamp

The above punching shall be done outside 50 mm below the peripheral edge.

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<u>Plates</u>

PMD No.	Item	Vendor code	Vendor Name
E.PL.004	SS PLATES / SHEETS /	A11929	STEEL AUTHORITY OF
	SHIMS		INDIA LTD
		H00856	JSL LIMITED
		S72073	ACERINOX S.A.,
		F80003	OUTOKUMPU
			STAINLESS OY
		SI00001	ACRONI D.O.O
		BE00001	INDUSTEEL,
		KR00002	POSCO STEEL SERVICES
			& SALES CO. LTD.
E.PL.005	B.Q.PLATES(SIZE UPTO	A11929	STEEL AUTHORITY OF
	45 MM THICKNESS)		INDIA LTD
		T10050	JINDAL STEEL & POWER
			LTD.
		KA00016	JSW STEEL LIMITED
E.PL.006	B.Q.PLATES(SIZE ABOVE 45 MMTHICKNESS)	U80960	CORUS UK LTD.,
	·	S80003	DUFERCO S.A.,
		G91407	SALZGITTER
			MANNESMANN
			INTERNATIONAL
		F90163	DILLING-GTS VENTES,
		T10050	JINDAL STEEL & POWER
			LTD.
		CH00001	EAST METALS S.A
		BE00001	INDUSTEEL,
		KR00002	POSCO STEEL SERVICES & SALES CO. LTD.

<u>Pipes</u>

PMD No.	Item	Vendor code	Vendor Name
E.PT.003	STAINLESS STEE &PIPES OD UPT	EL TUBES A11988 TO AND	M/S. NUCLEAR FUEL COMPLEX
	INCLUDING 168		
		M14688	REMI EDELSTAHL
			TUBULARS LIMITED
		S90071	AB SANDVIK
			MATERIALS
			TECHNOLOGY,
		S72022	TUBACEX TUBOS
			INDXIDABLES S.A.

		M10104	HEAVY METAL & TUBES LIMITED,
		M01160	JINDAL SAW LIMITED,
		M01152	MAHARASHTRA SEAMLESS LTD.,
			SERVICES S.A.
		190302	TENARIS GLOBAL
		S72049 M20047	TUBOS REUNIDOS,S.A, ISMT LIMITED.,
	PIPES OD ABOVE 114.3 MM AND BELOW 219.1 MM	572040	TUDOS DELINIDOS S A
E.PT.011	CARBON STEEL (SEAMLESS) TUBES /	C90151	VALCOVNY TRUB CHOMUTOV A. S
		CN00010	ZHEJIJANG HI-TECH METALS CO. LTD.
		GJ00011	CHANDAN STEEL LIMITED
		0.100044	PVT. LTD.
		GJ00007	KRYSTAL STEEL MFG.
		GJ00006	MODERN TUBE INDUSTRIES LTD
		AP00073	LINKWELL SEAMLESS TUBES (P) LTD.
			INTERNATIONAL CO.
		K70007	IL SHIN STEEL
		G01459	RATNAMANI METALS & TUBES LTD.,
		J90001	NIKKO BOEKI KAISHA LTD.
		100001	LTD.,
		M10063	PRAKASH STEELAGE
		10003	CORPORATION,
		K70003	CORPORATION SAMSUN
		J90097	SUMITOMO
			ROHRENWERKE
		G91881	TPS TECHNITUBE
		M10104	HEAVY METAL & TUBES LIMITED,
		M20071	SANDVIK ASIA LIMITED
		\$70015	IGAWARA INDUSTRIAL SERVICE AND TRAD

		J90097	SUMITOMO
		370077	CORPORATION
		F90112	VALLOUREC &
		1 70112	MANNESMANN
		1170047	TUBES., TRANSWORLD FZC
		U70047	
		AE00001	KIRTANLAL
			INTERNATIONAL DMCC
		AE00002	VENUS
			INTERNATIONAL FZE
			(YANGZHOU CHENGDE
			STEEL PIPE CO. LTD.)
		U60001	INTERPIPE,
.PT.012	CARBON	C90151	VALCOVNY TRUB
1.012	STEEL(SEAMLESS) TUBE		CHOMUTOV A. S
	/ PIPES OD FROM		OHOWOTOV A. 3
	219.1MM UPTO AND		
	INCLUDING 273.1MM		
	INCLUDING 2/3. HVIIVI		
		J90097	SUMITOMO
			CORPORATION
		M01152	MAHARASHTRA
			SEAMLESS LTD.,
		M01160	JINDAL SAW LIMITED,
		S70615	PRODUCTOS
			TUBULARES S.A.,
		M20047	ISMT LIMITED.,
		190302	TENARIS GLOBAL
			SERVICES S.A.
		F90112	VALLOUREC &
			MANNESMANN
			TUBES.,
		U70047	TRANSWORLD FZC
		AE00001	KIRTANLAL
		ALUUUU I	
			INTERNATIONAL DMCC
		AE00002	VENUS
			INTERNATIONAL FZE
			(YANGZHOU CHENGDE
			STEEL PIPE CO. LTD.)

E.PT.013	CARBON STEEL (SEAMLESS) TUBES / PIPES OD ABOVE 273.1MM UPTO AND INCLUDING 355.6MM	C90151	VALCOVNY TRUB CHOMUTOV A. S
		J90097	SUMITOMO
			CORPORATION
		M01152	MAHARASHTRA
			SEAMLESS LTD.,
		S70615	PRODUCTOS
			TUBULARES S.A.,
		190302	TENARIS GLOBAL
			SERVICES S.A.
		F90112	VALLOUREC &
			MANNESMANN
			TUBES.,
		U70047	TRANSWORLD FZC
		AE00001	KIRTANLAL
			INTERNATIONAL DMCC
		AE00002	VENUS
			INTERNATIONAL FZE
			(YANGZHOU CHENGDE
			STEEL PIPE CO. LTD.)
E.PT.014	CARBON STEEL (SEAMLESS) TUBE /PIPES OD ABOVE 355.6MM	C90151	VALCOVNY TRUB CHOMUTOV A. S
		190302	TENARIS GLOBAL
			SERVICES S.A.
		S70615	PRODUCTOS
			TUBULARES S.A.,
		J90097	SUMITOMO
			CORPORATION
		F90112	VALLOUREC &
			MANNESMANN
			TUBES.,
		U70047	TRANSWORLD FZC
		AE00001	KIRTANLAL
			INTERNATIONAL DMCC
		AE00002	VENUS
			INTERNATIONAL FZE
			(YANGZHOU CHENGDE
			STEEL PIPE CO. LTD.)
		AE00002	INTERNATIONAL I (YANGZHOU CHEI

E.PT.015	STAINLESS STEEL TUBES	M14688	REMI EDELSTAHL
	& PIPES OD ABOVE		TUBULARS LIMITED
	168.3MM UPTO AND		
	BELOW 273.1MM		
	BELOW E/OITHWIN		
		S70615	PRODUCTOS
			TUBULARES S.A.,
		S90071	AB SANDVIK
			MATERIALS
			TECHNOLOGY,
		S72022	TUBACEX TUBOS
			INDXIDABLES S.A.
		S70015	IGAWARA INDUSTRIAL
			SERVICE AND TRAD
		J90097	SUMITOMO
			CORPORATION
		G01459	RATNAMANI METALS &
			TUBES LTD.,
		J90001	NIKKO BOEKI KAISHA
			LTD.
		G91881	TPS TECHNITUBE
			ROHRENWERKE
		CN00010	ZHEJIJANG HI-TECH
			METALS CO. LTD.
E.PT.016	STAINLESS STEEL TUBES	J90001	NIKKO BOEKI KAISHA
	& PIPES OD 273.1MM		LTD.
	AND ABOVE		
		J90097	SUMITOMO
			CORPORATION
		S70615	PRODUCTOS
			TUBULARES S.A.,
		S70015	IGAWARA INDUSTRIAL
			SERVICE AND TRAD
		G91881	TPS TECHNITUBE
			ROHRENWERKE

Structural

PMD No.	Item	Vendor code	Vendor Name
E.ST.003	STRUCTURAL STEEL (A11929	STEEL AUTHORITY OF
	BEAMS, ANGLES &		INDIA LTD
	CHANNELS)		
		M40492	M/S. VANDANA ISPAT
			LIMITED
		T10050	JINDAL STEEL & POWER
			LIMITED

A48711	RASHTRIYA ISPAT
	NIGAM LTD,
A60202	STEEL AUTHORITY OF
	INDIA LTD
CG00001	NANDAN STEELS &
	POWER LTD.
AP00098	BEEKAY STRUCTURAL
	STEELS

SS Angles

PMD No.	Item	Vendor code	Vendor Name
E.ST.006	S.S. ANGLES	A11929	STEEL AUTHORITY OF
			INDIA LTD
		AP00048	MANIDHARI STAINLESS
			WIRE PVT. LTD.
		DL00004	AMBICA STEELS
			LIMITED
		GJ00011	CHANDAN STEEL
			LIMITED

<u>Flanges</u>

PMD No.	Item	Vendor code	Vendor Name
ST.FL.001	FLANGES (CARBON	A10415	PRESHZINGER
	STEEL) UPTO 6 INCHES		ENGINEERING
		M10177	SHREE GANESH
			FORGINGS LTD
		U00150	KISAAN STEELS (PVT)
			LTD.,
		T10113	MOD FORGE PVT. LTD
		A49888	EVERGREEN
			MACHINERY & TOOLS
		D01374	J.K.FORGINGS,
		D00122	THE PUNJAB STEEL
		1100001	WORKS,
		U00021	ALKA FORGINGS
		A30184	FLASH FORGE PVT LTD
ST.FL.003	FLANGES (STAINLESS	A10415	PRESHZINGER
	STEEL)-UPTO 6 INCHES		ENGINEERING
		D00122	THE PUNJAB STEEL
			WORKS,
		U00150	KISAAN STEELS (PVT)
			LTD.,

		M10177	SHREE GANESH
			FORGINGS LTD
		D01374	J.K.FORGINGS,
		A49888	EVERGREEN
			MACHINERY & TOOLS
		A30184	FLASH FORGE PVT LTD
		GJ00011	CHANDAN STEEL
			LIMITED
ST.FL.004	FLANGES (CARBON	A10415	PRESHZINGER
	STEEL) FOR> 6" UPTO 12"		ENGINEERING
	12	A49888	EVERGREEN
			MACHINERY & TOOLS
		D00122	THE PUNJAB STEEL
		U00150	KISAAN STEELS P. LTD
		D00106	GOLDEN IRON & STEEL
		U00029	CHAUDHRY HAMMER
		U01378	GHAZIABAD ISPAT UDYOG
		D01374	J.K. FORGINGS
		M10177	SREE GANESH
		A30184	FORGINGS FLASH FORGE PVT LTD
		A30104	FLASH FORGE PVI LID
D.FO.003	STANDARD FLANGE	D00106	GOLDEN IRON & STEEL WKS.
		D00122	THE PUNJAB STEEL WORKS,
		U00029	CHAUDHRY HAMMER
		000027	WORKS (P) LTD.
		U00150	KISAAN STEELS (PVT)
			LTD.,
		U01378	GHAZIABAD ISPAT UDYOG LTD.,
		D01374	J.K.FORGINGS,
		120.07.1	3.1.1.1 OROH 100 ₁

Fasteners

ST.SW.001	STUD WITH TWO NUTS	A00030	JAI FASTENERS (P)
			LIMITED
		M33208	PRESIDENT
			ENGINEERING WORKS

			INDUSTRIES
		K50243	NAGABUSHANAM
		145000	
		A15029	ATLAS FASTENERS
		P00370	MORNING STAR INDUSTRIES
		PB00002	UDEHRA FASTENERS LTD.
		GJ00005	RATNESH METAL INDUSTRIES PVT. LTD.
		MH00021	MEGA ENGINEERING PVT. LTD.
		P00004	PIONEER NUTS AND
			BOLTS PVT. LTD.
ST.FS.004	FASTENERS (STUDS) and SS Fasteners	A00030	JAI FASTENERS (P) LIMITED
		M33208	PRESIDENT
			ENGINEERING WORKS
		T10113	MOD FORGE PVT. LTD
		T10060	SREE PAVITHRA INDUSTRIES,
		M10016	BOLTMASTER
			(INDIA)PVT.LTD.
		A15029	ATLAS FASTENERS
		K50057	CANARA AUTO
		K50138	PRODUCTS AMBIKA ENTERPRISES,
		H00020	LPS BOSSARD PVT. LTD.
			LINUOUS ENGINEES:
		A10388	UNIQUE ENGINEERING ENTPS P LTD
		P00370	MORNING STAR INDUSTRIES
		PB00002	UDEHRA FASTENERS

		GJ00005	RATNESH METAL INDUSTRIES PVT. LTD.
		MH00021	MEGA ENGINEERING PVT. LTD.
		P00004	PIONEER NUTS AND BOLTS PVT. LTD.
		KA00015	SRI RAMANUJA INDUSTRIAL SERVICES
		P00002	PANKAJ INTERNATIONAL
ST.FS.005	FASTENERS (NUTS) & ss fasteners	A00030	JAI FASTENERS (P) LIMITED
		H00020	LPS BOSSARD PVT. LTD
		K50057	CANARA AUTO PRODUCTS
		M33208	PRESIDENT ENGINEERING WORKS
		T10113	MOD FORGE PVT. LTD
		T10143	SUNDRAM FASTENERS LTD.
		T10060	SREE PAVITHRA INDUSTRIES,
		M10016	BOLTMASTER (INDIA)PVT.LTD.
		A10388	UNIQUE ENGINEERING ENTPS P LTD
		A15029	ATLAS FASTENERS
		P00370	MORNING STAR INDUSTRIES
		PB00002	UDEHRA FASTENERS LTD.
		GJ00005	RATNESH METAL INDUSTRIES PVT. LTD.
		MH00021	MEGA ENGINEERING PVT. LTD.
		P00004	PIONEER NUTS AND BOLTS PVT. LTD.
		KA00015	SRI RAMANUJA INDUSTRIAL SERVICES

		P00002	PANKAJ INTERNATIONAL
ST.FS.006	FASTENERS (WASHERS)	A00030	JAI FASTENERS (P) LIMITED
		T10113	MOD FORGE PVT. LTD
		M33208	PRESIDENT ENGINEERING WORKS
		A15029	ATLAS FASTENERS
		H00020	LPS BOSSARD PVT. LTD.
		A10388	UNIQUE ENGINEERING ENTPS P LTD
		PB00002	UDEHRA FASTENERS LTD.
		P00004	PIONEER NUTS AND BOLTS PVT. LTD.
		P00002	PANKAJ INTERNATIONAL

Vendor Name	City	PostalCode	Stroot	Street 2	Street 3	Telephone 1	Fax Number	E-Mail Address
CN00010 ZHEJIJANG HI-TECH METALS CO. LTD.	ZHEJIANG	111111	ZHENXI TOWN, HUZHOU 313012	Street 2	Street 3	86 572 7362198		samxu@jiuli.com
AP00098 BEEKAY STRUCTURAL STEELS	VISAKAPATNAM	530012	AUTONAGAR		PLOT NO. 19-21 & 24-26, BLOCK-E	0891-6539029,9830093993		structural@beekaysteel.com
AP00073 LINK WELL SEAMLESS TUBES (P) LTD.	SECUNDERABAD	500009	TAWAIPURA, TARBUND		LINKWELL HOUSE, GROUND FLOOR, 2-3-76	040-27897077		shr@linkwellseamlesstubes.com
AP00048 MANIDHARI STAINLESS WIRE PVT. LTD.	HYDERABAD	500055	137, I.D.A, PHASE-V, JEEDIMETLA			040-23091478	040-23195734	info@manidhariwire.com
A60202 STEEL AUTHORITY OF INDIA LTD	SECUNDERABAD	127714	4TH FLOOR, 4TH FLOOR, SOMASUNDARAM S	IISCO STEEL PLANT	3-1-277/1/4, PVS MANSION,			iiscohyd@yahoo.com
A49888 EVERGREEN MACHINERY & TOOLS STORES	SECUDERABAD	500003	5-1-454, RANIGUNJ		POST BOX NO.1628,			evergreenmachinery@yahoo.co.in
A48711 RASHTRIYA ISPAT NIGAM LTD,		103311	KHANIJ BHA KHANIJ BHAVAN / NMDC BUI	VISAKHAPATNAM STEEL PLANT,	DOOR NO:10-3-311/A,			rinlhyd@ap.nic.in
A30184 FLASH FORGE PVT LTD	VISAKHAPATNAM	530012	F-33, D BLOCK,	AUTONAGAR,		08913292232,9848149317		sales@flashforge.co.in
A30184 FLASH FORGE PVT LTD A11929 STEEL AUTHORITY OF INDIA LTD	VISAKHAPATNAM HYDERABAD	530012 500004	F-33, D BLOCK, TARAMANDAL SAIFABAD	AUTONAGAR,	5-9-13 9TH FLOOR	08913292232,9848149317	8912768281	salesmumbai@flashforge.co.in
A10415 PRESHZINGER ENGINEERING	HYDERABAD	500055	IDA JEEDIMETLA	PLOT NO. 84/A	PHASE-1 SHAPUR NAGAR	040-55440384	040-23713008	bmsec@sail_steel.com pecplks_hyd53@rediffmail.com
GJ00011 CHANDAN STEEL LIMITED	UMBERGAON	396171	DIST. VALSAD	PLOT # 35 & 36, 102/2 GIDC	THASE TOTAL OR WASARC	91 260 2562066		flanges@chandansteel.net
GJ00007 KRYSTAL STEEL MANUFACTURING	VADODARA	391775	P.O. MANJUSAR, TALUKA SAVLI	1201 11 00 0 00, 10272 0100	PLOT NO. KV-2, G.I.D.C. SAVLI	02667-264777		works@krystalsteel.co.in
GJ00006 MODERN TUBE INDUSTRIES	VADODARA	391243	VILLAGE: RAMANGAMDI, POR		SURVEY NO. 873, NEAR: POR GIDC	0265-2831810	0265-2831811	herbert.mtil@gmail.com
G01459 RATNAMANI METALS & TUBES LTD.,		111111	ANKUR ROAD ANKUR ROAD, NARANPURA, A	17,RAJMUGAT SOCIETY,	NARANPURA CHAR RASTA,			info@ratnamani.com
H00856 JSL STAINLESS LIMITED	HISAR	125005		REG.OFFICE:P.O.BOX.NO.6,	DELHI ROAD,			jsl.puneetgrover@gmail.com
KA00016 JSW STEEL LIMITED	DIST. BELLARY	583275	P.O. VIJAYANAGAR			08395-250120	08395-250138	balachandra.mouli@jsw.in
M40492 M/S. VANDANA ISPAT LIMITED	RAIPUR.	492001		VANDANA BUILDING	M.G. ROAD	0771-2535244	0771-2233023	vandanaloha@yahoo.co.in
M20071 SANDVIK ASIA LIMITED	PUNE	411012	MAHARASHTRA	MUMBAI-PUNE ROAD	DAPODI, PUNE- 411012			sanika.kulkarni@sandvik.com
M14688 REMI EDELSTAHL TUBULARS LIMITED	MUMBAI	400063	GOREGAON EAST,		11, CAMA INDUSTRIAL ESTATE,	022-40589888		deepaksoni@remigroup.com
M10177 SHREE GANESH FORGINGS LTD	NAVI MUMBAI	400705	DALLA ADOLOGIA MANUADA CUEDA	C-3/C, TTC INSUATRIAL AREA	THANE BELAPUR ROAD			shreeganeshforgings@vsnl.com
M10104 HEAVY METAL & TUBES LIMITED,		111111	MUMBAI - 400 004. MAHARASHTRA	12, 'SKM HOUSE',	6TH KHETWADI,	022 66124500	022 2252/57/	hitesh@heavytubes.com
M10063 PRAKASH STEELAGE LTD., M01152 MAHARASHTRA SEAMLESS LTD.,	MUMBAI	400026 402126	DIST. RAIGADH	701, MAHALAXMI CHAMBERS PIPE NAGAR, VILLAGE SUKELI	BHULABHAI DESAI ROAD N.H.17, B.K.G.ROAD, TALUKA-ROHA	022-66134500 02194-238511	022-23526576 02194-238513	marketing@prakashsteelage.com jindal_d@vsnl.net.in
T10113 MOD FORGE PVT. LTD	CHENNAI	600058	AMBATTUR INDL. ESTATE,	103, SIDCO AIEMA TOWER,	1ST MAIN ROAD,	044-26253236		gindai_d@vsni.net.in chennai@mod-forge.com
T10050 JINDAL STEEL & POWER LIMITED	CHENNAI	600038	TEYNAPET	4C, CENTURY PLAZA	560-562, ANNA SALAI	011 20200200	J 1 1 20201700	isplchennai@vsnl.net
U01378 GHAZIABAD ISPAT UDYOG LTD.,	GHAZIABAD	201009	SITE NO.1	C/89, INDUSTRIAL AREA,	BULANDSHAHR ROAD,	0120 2866189	0120-2866188	giultd@yahoo.co.in
U01378 GHAZIABAD ISPAT UDYOG LTD.,	GHAZIABAD	201007	SITE NO.1	C/89, INDUSTRIAL AREA,	BULANDSHAHR ROAD,	0120 2866189		sharmaak27@rediffmail.com
U00150 KISAAN STEELS (PVT) LTD.,	GHAZIABAD	201001	P.O. BOX NO 71	B-12 INDUSTRIAL AREA,	BULANDSHAHR ROAD,	0120-2700938		kspl_nitin@yahoo.com
U00150 KISAAN STEELS (PVT) LTD.,	GHAZIABAD	201001	P.O. BOX NO 71	B-12 INDUSTRIAL AREA,	BULANDSHAHR ROAD,	0120-2700938	0120-4175942	accounts@kisaansteels.com
U00029 CHAUDHRY HAMMER WORKS (P) LTD.		201001	GHAZIABAD (UP) INDIA.	NEAR HAPUR ROAD FLY OVER	P.O. BOX 20,			chaudhry.works@gems.vsr
U00021 ALKA FORGINGS,	GHAZIABAD	201009	GHAZIABAD. GHAZIABAD. U.P.	C-20, BULANDSHAR ROAD	INDUSTRIAL AREA	0120-2700831,9873439011		alka_forgings@rediffmail.com
DL00004 AMBICA STEELS LIMITED	NEW DELHI	110052	C54/1 WAZIRPUR INDL. AREA			011-47034400	011-47034450	info@ambicasteels.com
D01374 J.K.FORGINGS,	NEW DELHI.	110064		B-83, MAYAPURI INDUSTRIAL AREA	PHASE-1,	011-28114484		jkforgings@sify.com
D00122 THE PUNJAB STEEL WORKS,	NEW DELHI	110064	MAYAPURI INDUSTRIAL AREA	7.40 INDUSTRIAL AREA	B-38,	011-28115960	011-28116333	pswforge@yahoo.com
D00106 GOLDEN IRON & STEEL WKS.	NEW DELHI.	110015	MAAINI DOAD, CANATA COLONIV	7/19, INDUSTRIAL AREA,	KIRTHINAGAR,	011-25932126		giswgold@del3.vsnl.net.in
CG00001 NANDAN STEELS & POWER LTD. KR00002 POSCO STEEL SERVICES &	RAIPUR KYEONGZSANGBUK-DO	492001 790-360	MAIN ROAD, SAMTA COLONY POHANG-SI	MILL-POSCO	GROUND FLOOR, 199'C' 1, GOEDONG-DONG, NAM-GU	0771-4078000 82 54 2200114		raipur_nandan@yahoo.com webmaster@posco.com
AE00001 KIRTANLAL INTERNATIONAL DMCC	NTEUNGZSANGDUK-DU	103921	P.O. BOX- 103921, DUBAI		·			admin@kirtanlalinternational.com
MEDDOO I ININIMENE INTERNATIONAL DIVIDO				1504 BIN HENLU LOWER-L	IAL-MANKHOOLROAD	19 / 1-4- 354 34 1 1	19 / 1-4- 354 3381	\mathbf{I}
AF00002 VENUS INTERNATIONAL EZE.	DUBAL.			504, BIN HENDI TOWER-1 PLOT # 352-971, BLOCK-5.	AL-MANKHOOL ROAD JUMFIRAH BFACH ROAD.	971-4-3543411 -3557677	971-4-3543381	
AE00002 VENUS INTERNATIONAL FZE, BE00001 INDUSTEEL BELGIUM	DUBAI, CHARLEROI	11111111	P.O.BOX-103976,	PLOT # 352-971, BLOCK-5,	JUMEIRAH BEACH ROAD,	-3557677		hemendra@venusfze.com
AE00002 VENUS INTERNATIONAL FZE, BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A.	DUBAI, CHARLEROI			·			32 71 441714	
BE00001 INDUSTEEL BELGIUM	-	1111111 0	P.O.BOX-103976, RUE DE CHATELET 266	·	JUMEIRAH BEACH ROAD,	-3557677 32 71 441905	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A.	-	1111111 0 6900	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO	PLOT # 352-971, BLOCK-5,	JUMEIRAH BEACH ROAD,	-3557677 32 71 441905	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES.,	-	1111111 0 6900 12345	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY.	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100	-3557677 32 71 441905	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A.	CHARLEROI	1111111 0 6900 12345 12345 11111 12345	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC- SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6,	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO,	-3557677 32 71 441905 41912607760	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD.	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103-	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI -	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU	-3557677 32 71 441905 41912607760	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO.	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567 123-567	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1	-3557677 32 71 441905 41912607760	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567 123-567 123456	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601.	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21,	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING,	-3557677 32 71 441905 41912607760	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A.,	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567 123-567 123456 123456	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA,	-3557677 32 71 441905 41912607760	32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com
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BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY, SI00001 ACRONI d.o.o. U60001 INTERPIPE, U70047 TRANSWORLD FZC U80960 CORUS UK LTD.,	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567 123456 123456 123456 123456 123456 123456 123456 1234 111 11 4270 49600 1234 123456789	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N . SPAIN S P A I N . SWITZERLAND. SWEDEN. 4270, JESENICE DNEPROPETROVSK, BLOCK AL ESBIQ, BUR DUBAI U.A.E ALDWARKE LANE, ROTHERHAM	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9, SE - 811 81, 104, RABAB & LAYLA CORUS ENGINEERING STEELS OR	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN , CESTA BORISA KIDRICA 44 1-A, PISARZHEVSKOGO STR. 49600 PLOT NO.3, 316-0119 (P-60/4) WIRE ROD & BAR PO BOX 50	-3557677 32 71 441905 41912607760 49 65927120 38645841000 3.80562E+11	32 71 441714 41912607751 49 65921305 38645841111 3.80562E+11	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com bostjan.blazic@acroni.si denys.poptsov@interpipe.biz trivedi@transworldfzc.com feedback@corusgroup.com
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY, SI00001 ACRONI d.o.o. U60001 INTERPIPE, U70047 TRANSWORLD FZC U80960 CORUS UK LTD., AE00001 KIRTANLAL INTERNATIONAL DMCC	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567 123456 123456 123456 123456 123456 123456 123456 1234 111 11 4270 49600 1234 123456789 103921	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N . SPAIN S P A I N . SWITZERLAND. SWEDEN. 4270, JESENICE DNEPROPETROVSK, BLOCK AL ESBIQ, BUR DUBAI U.A.E ALDWARKE LANE, ROTHERHAM P.O. BOX- 103921, DUBAI	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9, SE - 811 81, 104, RABAB & LAYLA CORUS ENGINEERING STEELS OR 504, BIN HENDI TOWER-1	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN, CESTA BORISA KIDRICA 44 1-A, PISARZHEVSKOGO STR. 49600 PLOT NO.3, 316-0119 (P-60/4) WIRE ROD & BAR PO BOX 50 AL-MANKHOOL ROAD	-3557677 32 71 441905 41912607760 49 65927120 38645841000 3.80562E+11 44 2077174444 971-4-3543411	32 71 441714 41912607751 49 65921305 38645841111 3.80562E+11 44 2077174455 971-4-3543381	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com bostjan.blazic@acroni.si denys.poptsov@interpipe.biz trivedi@transworldfzc.com feedback@corusgroup.com admin@kirtanlalinternational.com
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY, SI00001 ACRONI d.o.o. U60001 INTERPIPE, U70047 TRANSWORLD FZC U80960 CORUS UK LTD., AE00001 KIRTANLAL INTERNATIONAL DMCC AE00002 VENUS INTERNATIONAL FZE,	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567 123456 123456 123456 123456 123456 123456 123456 1234 111 11 4270 49600 1234 123456789	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N . SPAIN S P A I N . SWITZERLAND. SWEDEN. 4270, JESENICE DNEPROPETROVSK, BLOCK AL ESBIQ, BUR DUBAI U.A.E ALDWARKE LANE, ROTHERHAM P.O. BOX- 103921, DUBAI P.O.BOX-103976,	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9, SE - 811 81, 104, RABAB & LAYLA CORUS ENGINEERING STEELS OR	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN , CESTA BORISA KIDRICA 44 1-A, PISARZHEVSKOGO STR. 49600 PLOT NO.3, 316-0119 (P-60/4) WIRE ROD & BAR PO BOX 50	-3557677 32 71 441905 41912607760 49 65927120 38645841000 3.80562E+11 44 2077174444 971-4-3543411 -3557677	32 71 441714 41912607751 49 65921305 38645841111 3.80562E+11 44 2077174455 971-4-3543381	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com bostjan.blazic@acroni.si denys.poptsov@interpipe.biz trivedi@transworldfzc.com feedback@corusgroup.com admin@kirtanlalinternational.com hemendra@venusfze.com
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BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY, SI00001 ACRONI d.o.o. U60001 INTERPIPE, U70047 TRANSWORLD FZC U80960 CORUS UK LTD., AE00001 KIRTANLAL INTERNATIONAL DMCC AE00002 VENUS INTERNATIONAL FZE, BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES.,	CHARLEROI	1111111 0 6900 12345 12345 11111 12345 1234567 123456 123456 123456 123456 123456 123456 123456 123456 123456 1234 111 11 4270 49600 1234 113456789 103921 1111111 0 6900 12345	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N . SPAIN S P A I N . SWITZERLAND. SWEDEN. 4270, JESENICE DNEPROPETROVSK, BLOCK AL ESBIQ, BUR DUBAI U.A.E ALDWARKE LANE, ROTHERHAM P.O. BOX-103921, DUBAI P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9, SE - 811 81, 104, RABAB & LAYLA CORUS ENGINEERING STEELS OR 504, BIN HENDI TOWER-1 PLOT # 352-971, BLOCK-5,	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN, CESTA BORISA KIDRICA 44 1-A, PISARZHEVSKOGO STR. 49600 PLOT NO.3, 316-0119 (P-60/4) WIRE ROD & BAR PO BOX 50 AL-MANKHOOL ROAD JUMEIRAH BEACH ROAD,	-3557677 32 71 441905 41912607760 49 65927120 38645841000 3.80562E+11 44 2077174444 971-4-3543411 -3557677 32 71 441905	32 71 441714 41912607751 49 65921305 38645841111 3.80562E+11 44 2077174455 971-4-3543381 32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com bostjan.blazic@acroni.si denys.poptsov@interpipe.biz trivedi@transworldfzc.com feedback@corusgroup.com admin@kirtanlalinternational.com hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in
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BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY, SI00001 ACRONI d.o.o. U60001 INTERPIPE, U70047 TRANSWORLD FZC U80960 CORUS UK LTD., AE00001 KIRTANLAL INTERNATIONAL DMCC AE00002 VENUS INTERNATIONAL FZE, BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS, S.A, S72073 ACERINOX S.A.,	CHARLEROI	11111111 0 6900 12345 12345 11111 12345 1234567 123456 123456 123456 123456 123456 123456 123456 1234 111 11 4270 49600 1234 11345 123456789 103921 1111111 0 6900 12345	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N. SPAIN S P A I N. SWITZERLAND. SWEDEN. 4270, JESENICE DNEPROPETROVSK, BLOCK AL ESBIQ, BUR DUBAI U.A.E ALDWARKE LANE, ROTHERHAM P.O. BOX-103921, DUBAI P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N. SPAIN S P A I N.	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9, SE - 811 81, 104, RABAB & LAYLA CORUS ENGINEERING STEELS OR 504, BIN HENDI TOWER-1 PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100,	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN, CESTA BORISA KIDRICA 44 1-A, PISARZHEVSKOGO STR. 49600 PLOT NO.3, 316-0119 (P-60/4) WIRE ROD & BAR PO BOX 50 AL-MANKHOOL ROAD JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID,	-3557677 32 71 441905 41912607760 49 65927120 38645841000 3.80562E+11 44 2077174444 971-4-3543411 -3557677 32 71 441905 41912607760	32 71 441714 41912607751 49 65921305 38645841111 3.80562E+11 44 2077174455 971-4-3543381 32 71 441714 41912607751	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com bostjan.blazic@acroni.si denys.poptsov@interpipe.biz trivedi@transworldfzc.com feedback@corusgroup.com admin@kirtanlalinternational.com hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY, SI00001 ACRONI d.o.o. U60001 INTERPIPE, U70047 TRANSWORLD FZC U80960 CORUS UK LTD., AE00001 KIRTANLAL INTERNATIONAL DMCC AE00002 VENUS INTERNATIONAL FZE, BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A. S72022 TUBACEX TUBOS INDXIDABLES S.A. S72024 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A.,	CHARLEROI	11111111 0 6900 12345 12345 11111 12345 1234567 123456 123456 123456 123456 123456 123456 123456 1234 111 11 4270 49600 1234 123456789 103921 1111111 0 6900 12345 12345 11111 12345 123456	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N. SPAIN S P A I N. SWITZERLAND. SWEDEN. 4270, JESENICE DNEPROPETROVSK, BLOCK AL ESBIQ, BUR DUBAI U.A.E ALDWARKE LANE, ROTHERHAM P.O. BOX-103921, DUBAI P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N. SPAIN S P A I N. SWITZERLAND.	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9, SE - 811 81, 104, RABAB & LAYLA CORUS ENGINEERING STEELS OR 504, BIN HENDI TOWER-1 PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9,	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN, CESTA BORISA KIDRICA 44 1-A, PISARZHEVSKOGO STR. 49600 PLOT NO.3, 316-0119 (P-60/4) WIRE ROD & BAR PO BOX 50 AL-MANKHOOL ROAD JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO,	-3557677 32 71 441905 41912607760 49 65927120 38645841000 3.80562E+11 44 2077174444 971-4-3543411 -3557677 32 71 441905 41912607760	32 71 441714 41912607751 49 65921305 38645841111 3.80562E+11 44 2077174455 971-4-3543381 32 71 441714 41912607751 49 65921305	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com bostjan.blazic@acroni.si denys.poptsov@interpipe.biz trivedi@transworldfzc.com feedback@corusgroup.com admin@kirtanlalinternational.com hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com
BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY, SI00001 ACRONI d.o.o. U60001 INTERPIPE, U70047 TRANSWORLD FZC U80960 CORUS UK LTD., AE00001 KIRTANLAL INTERNATIONAL DMCC AE00002 VENUS INTERNATIONAL FZE, BE00001 INDUSTEEL BELGIUM CH00001 EAST METALS S.A. F90112 VALLOUREC & MANNESMANN TUBES., G91407 SALZGITTER MANNESMANN INTERNATIONAL G91881 TPS TECHNITUBE ROHRENWERKE I90302 TENARIS GLOBAL SERVICES S.A. J90001 NIKKO BOEKI KAISHA LTD. K70007 IL SHIN STEEL INTERNATIONAL CO. S70015 IGAWARA INDUSTRIAL SERVICE AND TRAD S70615 PRODUCTOS TUBULARES S.A., S72022 TUBACEX TUBOS INDXIDABLES S.A. S72049 TUBOS REUNIDOS,S.A, S72073 ACERINOX S.A., S80003 DUFERCO S.A., S90071 AB SANDVIK MATERIALS TECHNOLOGY,	CHARLEROI	11111111 0 6900 12345 12345 11111 12345 1234567 123456 123456 123456 123456 123456 123456 123456 12345 111111 4270 49600 1234 1111111 0 6900 12345 111111 10 6900 12345 111111 12345 123456	P.O.BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N. SPAIN S P A I N. SWITZERLAND. SWEDEN. 4270, JESENICE DNEPROPETROVSK, BLOCK AL ESBIQ, BUR DUBAI U.A.E ALDWARKE LANE, ROTHERHAM P.O. BOX-103976, RUE DE CHATELET 266 VIA MAGGIO 1C, 6900 LUGANO BOULOGNE-B BOULOGNE-BILLANCOURT, FR GERMANY. URUGUAY TOKYO 103-0012, JAPANTOKYO 103- SEOJEONG-DONG PYEONGTAEK-CI, GYEONG SINGAPORE SINGAPORE - 609 601. (VIZCAYA), (VIZCAYA), SPAIN S P A I N. SPAIN S P A I N. SWITZERLAND. SWEDEN.	PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100, VIA BAGUTTI 9, SE - 811 81, 104, RABAB & LAYLA CORUS ENGINEERING STEELS OR 504, BIN HENDI TOWER-1 PLOT # 352-971, BLOCK-5, V&M FRANCE, DIRECTION COMMERC-SCHWANNSTRASSE 12, JULIUS-SAXLER-STR. 7, LA CUMPARSITA 1373, PISO 6, TOWA, 3-15, NIHONBASHI - ROOM NO.603, 6TH FLOOR LTD., 2 JURONG EAST STREET 21, CARRETERA GALINDO A UGARTE S/M P.O.BOX - 22, BARRIO SAGARRIABAI N.2A, SANTIAGO DE COMPOSTELA 100,	JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN, CESTA BORISA KIDRICA 44 1-A, PISARZHEVSKOGO STR. 49600 PLOT NO.3, 316-0119 (P-60/4) WIRE ROD & BAR PO BOX 50 AL-MANKHOOL ROAD JUMEIRAH BEACH ROAD, IALE,130,RUE DE SILLY,92100 D-40476, DUSSELDORF, DE-54550 DAUN 11200, MONTEVIDEO, HARIDOME-CHO,1-CHOME,CHUO-KU GYEONGSUNG B/D, 841-1 # 05-04, IMM BUILDING, 48510, VALLEDE TRAPAGA, 01400 LLODIO, 01470 AMURRIO-ALAVA 28035 - MADRID, CH 6900, LUGANO, SANDVIKEN,	-3557677 32 71 441905 41912607760 49 65927120 38645841000 3.80562E+11 44 2077174444 971-4-3543411 -3557677 32 71 441905 41912607760 49 65927120	32 71 441714 41912607751 49 65921305 38645841111 3.80562E+11 44 2077174455 971-4-3543381 32 71 441714 41912607751 49 65921305	hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com bostjan.blazic@acroni.si denys.poptsov@interpipe.biz trivedi@transworldfzc.com feedback@corusgroup.com admin@kirtanlalinternational.com hemendra@venusfze.com etienne.francois@arcelormittal.com diego.zanuso@eastmetals.biz dindmag@md4.vsnl.net.in scc_mum@satyam.net.in service@tpsd.de imoc@vsnl.com mdi_mdi@sify.com overseas@ilshinsteel.co.kr kumar@igawara.com.sg commercial.tubos@productostubulers.com grnaoc@hd1.vsnl.net.in trade@bom5.vsnl.net.in acuetopa@acxgroup.com jacques.schramm@duferco.com genny.dcruze@sandvik.com
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VENDOR STANDARD QUALITY PLAN

QP No.: HY/QA/VSQP/01

Rev. No.: 00

DATE : 18.02.2011

ITEM: DEAERATOR HEADER & STORAGE TANK

PAGE : Page 1 of 8

SL	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF	QUANTUM	REFERENCE	ACCEPTANCE	FORMAT OF	*	A	GENO	CY	REMARKS
NO	COMPONENTS	CHARACTERISTICS	CLASS	CHECK	OF CHECK	DOCUMENT	NORMS	RECORD	D	S	M	C	
1.0	MATERIAL												
1.1	At Suppliers works									•		1	
1.1.1	Shell Plates & Plates for Dished Ends	a. Chemical composition	Critical	Chemical	As per Spec	SA 516 GR.70	SA 516 GR.70	Supplier's TC	√	P	V	V	With the supplementary requirements S1,S5,S8 C=0.25Max.
		b. Mechanical properties	,,	Mechanical	As per Spec	SA 516 GR.70	SA 516 GR.70	Supplier's TC	V	P	V	V	
		c. UT Examination as per Drg	,,	NDE	100%	SA 435	SA 435	,,	V	P	V	V	
		d. Dimensional examination	Major	Measrt	,,	PO/Spec	PO/spec	,,		P	V	V	
		e. Surface Examination	Major	Visual	100%	No pitting	No pitting	Insp. Record		P	W	W	
		f. Verification of Material with Spec & TC	,,	Visual	,,	,,	,,	,,	√	P	V	V	Verification of Mill TCs at the time of induction.
1.1.2	Pipes	a. Verification & correlation of material with Mill TCs and transfer of attestation Dimensional & surface examination	Major	Visual	100%	SA 106 GRB	SA 106 GRB	Supplier's TCS and Insp. Record	√	Р	V	V	Hydro test or UT/ eddy current & flattening test at subvendors works of vendor.
1.1.3	Flanges	a. Verification & correlation of material with TC and transfer of attestation Dimensional & surface examination	Major	Visual	100%	SA105	SA105	Supplier's TCS and Insp. Record	V	Р	V	V	UT on all accessible areas for thickness >25mm shall be carried out

Drg No. : As per BHEL PO

BHEL Spec. No.: As per BHEL PO

APPROVED BY:

Legend: ***D**- Documents marked (✓) to be included by Supplier in Documentation Package.

S - Sub Vendor

P - Perform

M -Vendor / Manufacturer

W - Witness

C -Customer (BHEL) / Inspection Agency

V - Verify

AMIT KARAMCHANDANI ENGINEER/QA

PREPARED BY:

Y C VENKATESWARA RAO

DGM / QA



1.1.6

1.1.6.1

1.1.7

Spray Valves

At Supplier's

Shell Dished Ends (formed with single Plate or Butt welded plates)

1..1.7.1 At supplier's works | a. Verification & correlation

works

BHEL **HYDERABAD-32**

VENDOR STANDARD QUALITY PLAN

OP No.: HY/OA/VSOP/01

Rev. No.: 00

Supplier's TC

Supplier's TC

DATE: 18.02.2011 PAGE: Page 2 of 8

ITEM: DEAERATOR HEADER & STORAGE TANK

AGENCY REMARKS SLTYPE OF **OUANTUM** REFERENCE ACCEPTANCE FORMAT OF COMPONENTS CHARACTERISTICS **CLASS** NO CHECK OF CHECK NORMS RECORD D DOCUMENT S Μ C 1.1.4 Plates for pads a. Verification & correlation of material with Mill TCs Supplier's Р and transfer of attestation 100% TCS and V V Major Visual SA516 GR.70 SA516 GR.70 Dimensional & surface Insp. Record examination 1.1.5 Tray Assemblies At Supplier's a. Chemical composition. SA240TP430 SA240TP430 Supplier's TC P V V Critical Chemical As per Spec. works b. Mech. Properties SA240TP430 SA240TP430 Supplier's TC P V V Mechanical As per Spec. c. Visual examination for No cracks and No cracks and any surface defects of tray 100% Supplier's TC P V V Major Visual dents dents after stamping. ASME SEC V ASME SEC VIII d. PT examination of Trav " NDE 100% Supplier's TC Р V V plates article 6 appendix 8 e. Dimensional conformity Supplier's TC V V P Measrt. 100% Drawing Drawing of Trav stack Verification of f. Verification of Material Mill TCs at the Р

100%

100%

100%

Drawing

As per Spec & PO

SA 516 GR.70/

Visual

Visual &

Measrt

Visual

	11	J					
Drg No.	: As per BHEL PO	BHE	L Spec. No.:	As per BHEL	PO	PREI	PARED BY:

Major

Major

Legend: ***D**- Documents marked (✓) to be included by Supplier in Documentation Package.

S - Sub Vendor P - Perform M - Vendor / Manufacturer W - Witness

with Spec & TC

a. Verification of material

TC for compliance with

Specification and PO

C -Customer (BHEL) / Inspection Agency V - Verify

AMIT KARAMCHANDANI **ENGINEER/OA**

Drawing

As per Spec &

PO

SA 516 GR.70

APPROVED BY:

√ P V

V

 $\sqrt{}$ P

time of induction.

CHP

Review of

Original Mill

TCs at the time of induction

with the



VENDOR STANDARD QUALITY PLAN

QP No.: HY/QA/VSQP/01

Rev. No.: 00

DATE : 18.02.2011 PAGE : Page 3 of 8

ITEM: DEAERATOR HEADER & STORAGE TANK

SL	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF	QUANTUM	REFERENCE	ACCEPTANCE	FORMAT OF	*	Α	GEN	CY	REMARKS
NO	COMPONENTS	CHARACTERISTICS	CLASS	CHECK	OF CHECK	DOCUMENT	NORMS	RECORD	D	S	M	C	
		of material with mill TCs, matl. Specification & TC				BHEL Spec.							supplementary Requirements S1,S5,S8. Review of mill original TC at the time of induction
		b. Dimensional conformity after forming	,,	Measrt.	100%	Drawing	Drawing	Supplier's TC	$\sqrt{}$		P	W	LRA Inspection
		c. RT of Butt welds before forming	Critical	NDE	100%	ASME Sec.V Art.2	ASME Sec.VIII Div I UW51	Supplier's TC	1	P	V	V	LRA Inspection Review of RT films
		d. UT on outer surface area after forming and SR	Major	NDE	100%	HE51370/00 and ASME Sec V art 5	HE51370/00 ASME Sec VIII appdx 12	,,	√	P	V	V	LRA Inspection
		e. MT/PT on entire outer surface including welds after forming and SR	Major	NDE	100%	HE51370/00 and ASME Sec V art 7/6	HE51370/00 and ASME Sec VIII appdx 6/8	,,	√	P	V	V	LRA Inspection
		f. Verification of HT chart for Stress Relieving/ Normalizing after forming	Major	Visual	100%	ASME Sec VIII Div.I, UCS-56	ASME Sec VIII Div.I, UCS-56	,,	√	P	V	V	LRA Inspection
		g. Mechanical testing of production test coupon Heat treated along with dished ends	Major	Visual	As per Spec	SA516 Gr 70	SA516 Gr 70	Supplier's TC	√	P	W	V	LRA Inspection
		h. Thickness measurement on knuckle portion	Major	Measrt.	100%	Spec./Drg.	Spec./Drg.		1	P	W	W	Measrt. by Dmeter. LRA Inspection
2.0	INPROCESS INSPI		M	37' 1	1000/	TC 0 D	TC 0 1	I D 1			Ъ	337	
2.1	Shell Fabrication	a. Transfer of identification	Major	Visual	100%	TC & Drg	TC & drg	Insp. Record	7		P	W	

Drg No. : As per BHEL PO

BHEL Spec. No.: As per BHEL PO

APPROVED BY:

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S - Sub Vendor

P - Perform

M -Vendor / Manufacturer

W - Witness

C -Customer (BHEL) / Inspection Agency

V - Verify

AMIT KARAMCHANDANI ENGINEER/QA

PREPARED BY:



VENDOR STANDARD QUALITY PLAN

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ITEM: DEAERATOR HEADER & STORAGE TANK

SL	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF	QUANTUM	REFERENCE	ACCEPTANCE	FORMAT OF	*	Α	GENO	CY	REMARKS
NO	COMI ONENTS	CHARACTERISTICS	CLASS	CHECK	OF CHECK	DOCUMENT	NORMS	RECORD	D	S	M	C	
		marks and check for dimensional marking											
		b. Dimensional conformity	,,	Visual	,,	Drawing	Drawing	Insp. Record			P	W	
		c. Surface exam of plates after rolling and edge preparation	"	"	,,	ASME Sec VIII Div.I	ASME Sec.VIII Div.I	Insp. Record	V		P	W	
		d. PT of Weld edge preparation	Major	Visual	100%	ASME Sec.V ART.6	ASME Sec.VIII Appx.8	Insp. Record			P	W	
		e. Verification of approved WPS,PQR & Welders Qualification records	,,	,,	,,	As per Sec.IX	As per Sec.IX	-	V		P	V	CHP (Review of Record)
		f. Fit up of L & C seams including shell to Dished ends	"	Measrt	,,	Drg & ASME Sec.VIII Div.I	Drg & ASME Sec.VIII Div.I	Insp. Record	1		P	W	Ensure use of stiffener rings to avoid distortion
		g. PT after back chip	,,	NDE	,,	ASME Sec.V ART.6	ASME Sec.VIII Appx.8	Insp. Record	V		P	V	
		h. Check for the identification of all welds (weld No. punched for correlation with welder)	,,	Visual	,,	-	-	,,	1		P	V	
		i. RT of welds	Critical	NDE	100%	ASME Sec.V Art.2	ASME Sec.VIII DIV.1 UW 51	Insp. Record			P	V	Review of RT films
		j. PT exam. of L & C seams of the outer shell welds	Major	,,	,,	ASME Sec.V ART.6	ASME Sec.VIII Appx.8	Insp. Record			P	W	
		k. Visual exam. of all welds	,,	Visual	,,	ASME Sec.VIII Div.1	ASME Sec.VIII Div.1	-	V		P	V	
		Dimensional conformity including ovality	,,	Measrt	,,	ASME Sec .VIII Div.1 & Drg	ASME Sec.VIII Div.1 & Drg	Insp. Record	\checkmark		Р	W	
2.2	Nozzle Fabrication	a. Transfer of identification	Major	Visual	100%	TC	TC	I Insp. Record			P	W	

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ITEM: DEAERATOR HEADER & STORAGE TANK

SL	COMPONENTS	CHAD ACTEDICTICS	CI AGG	TYPE OF	QUANTUM	REFERENCE	ACCEPTANCE	FORMAT OF	*	A	AGEN	CY	REMARKS
NO	COMPONENTS	CHARACTERISTICS	CLASS	CHECK	OF CHECK	DOCUMENT	NORMS	RECORD	D	S	M	С	
	with Plate Material	marks											
		b. Fit up of 'L' seams	,,	Measrt	,,	Drawing	Drawing	I Insp. Record			P	W	
		c. PT after back chip	**	NDE	,,	ASME Sec.V Art .6	ASME Sec.VIII Div.I Appx.8	I Insp. Record	√		P	W	
		d. RT of the above weld	Critical	NDE	100%	ASME Sec.V Art.2	ASME Sec.VIII Div.I UW 51	I Insp. Record	√		P	V	Review of RT films
		e. Dimensional conformity	Major	Measrt	,,	Drawing	Drawing	-			P	V	
2.3	Welding of Nozzles with Shell	a. Check for markings of nozzle openings prior to cutting	Major	Visual	100%	Drawing	Drawing	-	√		P	W	
		b. Transfer of identification marks on nozzles	Major	Visual	100%	TC	TC	Insp. Record	√		P	W	
		c. Check for Dimn conformity of Nozzle welds, visual and dimensional exam of weld	,,	Measrt	,,	Drawing	Drawing	Insp. Record	1		Р	W	
		d. Fit up of Flange to pipe	,,	,,	,,	,,	,,	,,			P	W	
		e. Branches to shell fit up	,,	,,	,,	,,	,,	,,			P	W	
		f. MT exam of nozzle to shell welds	**	NDE	,,	ASME Sec.V Art.7	ASME Sec.VIII Appx.6	,,	√		P	W	
		g. PT of weld edge preparation>40mm	,,	NDE	,,	ASME Sec.V Art.6	ASME Sec.VIII Appx.8	,,	√		P	W	
		g. Dimensional & visual exam of nozzles	,,	Measrt	100%	Drawing	Drawing	Insp. Record	√		P	W	
		h. Soap Sol test of RF pads	,,	Measrt.	,,	HE71022/01	HE71022/01	Insp. Record			P	W	
2.4	Saddle fabrication & internal support & Tray enclosures	a. Fit up of pads to shell	Major	Measrt	100%	Drawing	Drawing	Insp. Record	√		P	W	
		b. Fit up of saddle to the shell	Major	Measrt	100%	Drawing	Drawing	Insp. Record	1		P	W	

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ITEM: DEAERATOR HEADER & STORAGE TANK

SL	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	*	A	AGENCY		REMARKS
NO			CLASS						D	S	M	C	
		c. Dimensional exam. Of external supports	Major	Measrt	100%	Drawing	Drawing	Insp. Record	$\sqrt{}$		P	V	
		d. Fit up of internal connection	Major	Measrt	100%	Drawing	Drawing	Insp. Record			P	V	
		e. Check for clearance / fit up of tray enclosure	Major	Measrt	100%	Drawing	Drawing	Insp. Record			P	W	
		f. Visual exam. of all welds	,,	Visual	,,	ASME Sec.VIII Div.I	ASME Sec.VIII Div.I	,,			P	W	
		g. Visual & dimensional exam of tray enclosure	,,	Visual	,,	Drawing	Drawing	,,	\checkmark		P	W	
		h. PT exam of Pads & saddle support	,,	NDE	,,	ASME Sec. V Art.6	ASME Sec.VIII Div.I Appx.8	,,	\checkmark		P	W	
		g. Measurement of diagonals of all Saddles	"	Measrt	"		Diagonals are to be equal	Insp. Record	V		P	W	
2.5	FINAL INSPECTI	ION											
		a. Visual exam of all welds	Major	Visual	100%	ASME Sec.VIII Div.I	ASME Sec.VIII Div.I	Insp. Record	√		P	W	
		b. Check for fixing of spray valves stacking of tray assemblies	Major	Visual	100%	Procedure & Drg	-	Insp. Record	1		Р	W	
		c. Visual and dimensional check of complete tray assemblies	,,	Measrt	,,	Drawing	Drawing	Insp. Record	V		P	W	
		d. Check inter connecting nozzles and Deaerator heater with fixture	Major	Visual	100%	Drawing	Drawing	Insp. Record	V		P	W	
		e. Hyd .Test of the header	Major	Visual	100%	HY0852061 Rev03 & Drg	HY0852061 Rev03 & Drg	Hydrostatic Test Report	√		P	W	СНР
		f. Drying after hydro test	Major	Visual	100%	HY0852061	HY0852061	Insp. Record			P	W	

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SL	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF	QUANTUM	REFERENCE	ACCEPTANCE	FORMAT OF RECORD	*	AGEN		CY	REMARKS
NO	COMPONENTS	CHARACTERISTICS	CLASS	CHECK	OF CHECK	DOCUMENT	NORMS		D	S	M	C	
						Rev03 & Drg	Rev03 & Drg						
3.0	8.0 PREDESPATCH INSPN												
		a. Dimensional insp. Of Header & storage Tank	Major	Visual	100%	Drg	Drg	As built Drg	\checkmark		P	W	
		b. Match marking of storage tank sections for site assembly	"	Visual & Measrt	-	Drawing & procedure	Drawing & procedure	Insp. Record	V		P	W	
		c. Check for completeness verification of test / inspection records and certification of H & FST	Critical	Visual	100%	QP, Tech.spec. drg & data sheet	QP, Tech.spec. drg & data sheet	Manufacture' s TC	V		P	V	
		d. Check for cleanliness after sand/shot blasting of internal/external surfaces of FST & external of header	Major	Visual	100%	HE-71023	HE-71023	Insp. Record	V		P	W	
		e. Cleaning, Painting & packing for despatch including blanking of all openings	,,	,,	,,	,,	,,	,,	V		P	W	
		f. Check for preservation of weld edge preparation	Major	Visual	100%	HE-71023	HE-71023	"	√		P	W	
		g. Check for identification on markings assemblies & loose items prior to transport	"	"	,,	-	-	-	√		P	W	

GENERAL NOTES:

- 1. Identification and traceability of BHEL supplied materials (SEE SPECIAL NOTES 1)
- 2. Identification and calibration of Welding equipments, Measuring instruments and gauges
- 3. Availability of electrode baking, holding and portable ovens
- 4. Approval of WPS,PQR and WPQ by BHEL/BHEL nominated inspection agency

Drg No.: As per BHEL PO BHEL Spec. No.: As per BHEL PO PREPARED BY: APPROV.	
S - Sub Vendor P - Perform M - Vendor / Manufacturer W - Witness	EVENKATESWARA RAO



VENDOR STANDARD QUALITY PLAN

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ITEM: DEAERATOR HEADER & STORAGE TANK

AGENCY FORMAT OF REMARKS SLTYPE OF **OUANTUM** REFERENCE ACCEPTANCE COMPONENTS CLASS CHARACTERISTICS NO CHECK OF CHECK D DOCUMENT NORMS RECORD S M C

- 5. Sourcing and usage of Electrodes and Welding wires from BHEL approved vendors
- 6. Availability of qualified QC personnel
- 7. Availability of NDT qualified personnel and procedures
- 8. Inspection of outsourced activities by vendor
- 9. Punching of welder nos. near weld jobs and RT ref. Nos. on weld joints
- 10. Availability of Technology process or work instructions to carry out job
- 11. Maintenance of welders log book

SPECIAL NOTES:

- 1. Material supply scope is as indicated in the BHEL PO or BHEL Sub contract Order and materials shall be as per BHEL approved drg./datasheet.
- 2. Vendor to refer BHEL customer approved project specific quality plan for identification of stages of inspection by BHEL customer/consultant.

INSTRUCTIONS FOR ASSEMBLY:

- 1. Closing dished end shall be assembled only after assembly of spray valves and tray assemblies
- 2. Spray valves are to be assembled prior to assembly of trays.
- 3. Vendor to ensure welding of stoppers for hold down rods and assembly of hold down angles with cleats.
- 4. Vendor to ensure tack welding of double lock nuts for spray valve fixing to valve plate.
- 5. Vendor to ensure availability of split pin through the top lock nut and stem of the spray valve before assembly of spray valve.
- 6. Vendor to ensure positioning of split pin at the bottom of hold down rod during tray assembly

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