


BHEL :: BAP :: RANIPET							
PURCHASE DEPARTMENT							
ANNEXURE-A TO OPEN TENDER ENQUIRY : OT 5410106E/07.06.2021							
SCOPE : SUPPLY OF PLATES IN SIZES/SPEC/QTY AS DETAILED BELOW:							
Enq SNO	Item Description (ThicknessxWidthxLength)	MATERIAL SPECIFICATION	APPLICABLE BHEL TDC	UNIT	QUANTITY (MT)	No of Plate to be ensured	Delivery Period
1	Plate 16x3000x6000 mm	P355 NH of EN 10028_3 or IT'S EQUIVALENT	TDC:RTF:311 Rev03	MT	63.302	28	Delivery Period is 60 days from PO date.
2	Plate 18x3000x6000 mm	P355 NH of EN 10028_3 or IT'S EQUIVALENT	TDC:RTF:311 Rev03		50.868	20	
3	Plate 8x3000x6000 mm	NAXTRA 700 or IT'S EQUIVALENT	TDC:RTF:306 Rev12		4.521	4	
4	Plate 12x3000x6000 mm	NAXTRA 700 or IT'S EQUIVALENT	TDC:RTF:306 Rev12		10.174	6	
5	Plate 32x3000x6000 mm	NAXTRA 700 or IT'S EQUIVALENT	TDC:RTF:306 Rev12		22.608	5	
6	Plate 40x3000x6000 mm	NAXTRA 700 or IT'S EQUIVALENT	TDC:RTF:306 Rev12		45.216	8	
7	Plate 55x3000x6000 mm	NAXTRA 700 or IT'S EQUIVALENT	TDC:RTF:306 Rev12		46.629	6	
Total					243.318		
<b>Note:</b>							
Price bid opening through EPS only instead of Reverse Auction.							
1) Quantity Split --NIL							
<b>2) Prices are to be quoted on Per MT basis only.</b>							
3) All necessary document required to meet the Pre Qualification Criteria to be submitted along with technical bid without fail.							
4) Quantity Tolerance: NIL							
5) In case of offer with equivalent material grade, then copy of the entire specification of that equivalent grade shall be submitted along with the techno-commercial bid without fail.							
6) Offer for partial quantity against an individual item is not acceptable and such offers will not be considered for further process for that item.							
7) Annexure A is to be duly signed, scanned and uploaded during submission of offer. Pointwise specific confirmation to BHEL TDC & SDDR to be given in the Techno-Commercial Bid without fail; otherwise offer may not be considered.							
8) Bids will be opened on the tender due date and in case of any request for due date extension , the same will not be considered. Hence please ensure submission of bid on or before the due date specified in the tender.							
<b>9) In case Integrity Pact is applicable, then two original signed copies (duly filled in, signed &amp; stamped) of Integrity Pact to be sent directly to The Sr. Deputy General Manager, Purchase Department (Steel), BHEL, BAP, Ranipet - 632406 by superscribing the tender &amp; NIT No on the envelope without fail and ensure that the same is reaching us on before the tender due date.</b>							
10) (a) In case of supplies from any new foreign suppliers, who are not in BHEL Product Material Directory, material inspection shall be carried out by Third Party Inspection Agency like Lloyds or SGS or BVQI prior to shipment at Supplier's work and total inspection charges shall be borne by the supplier only. (Quoted price shall be inclusive of TP inspection charges). (b) For indigenious suppliers, first inspection will be carried out by BHEL only and subsequent inspections will be by BHEL/BHEL approved Third Party Inspection Agencies (Inspection charges shall be borne by BHEL).							
Incase of any clarification, kindly email to sunnygrover@bhel.in / gowthaman@bhel.in / neelkantghode@bhel.in & contact @ 04172 284343 / 284694 / between 0900 hrs to 1730 hrs.							
All corrigenda, addenda, amendments, time extensions, clarifications etc., to the tender will be hosted on BHEL website (www.bhel.com) and EPS(https://eprocurebhel.co.in/nicgep/app). Bidders should regularly visit mentioned website to keep themselves updated.							
Registration process for items required by BHEL is always open at https://supplier.bhel.in. Prospective suppliers (including MSEs & Owned by SCs/STs) may visit this site and apply for registration in the respective unit.							
Senior Deputy General Manager/Purchase							

 Ranipet	<b>Technical Delivery Conditions (TDC)</b> For <b>High Strength Quenched and Tempered fine grain Steel plates</b>	Doc.Ref.	TDC:RTF:306
		Rev.No.	12
		Date:	23 10 2013
		Page No.	01 OF 03

## 1.0 SCOPE

- 1.1 This TDC specifies the requirements for supply of high strength quenched and tempered fine grain steel plates.
- 1.2 Applicable specification

- Naxtra 700 (Material No.1.8988) of Thyssen specification
- Weldox 700F of Oxelosund steels
- Dillmax 690 E (Matl.No.1.8988) of Dillinger Hutten Werk
- WEL TEN 780 A of Nippon steel Corp
- RQT 701 of Corus steel
- SA 517 Gr. F
- S690 QLI (Matl.No.1.8988) of EN 10025-6
- OPTIM 700 QL Ruukki, Finland
- DOMEX 700 MCE of SSAB Tunnplat AB, Sweden


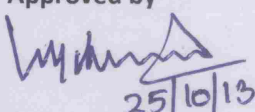
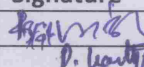
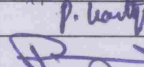
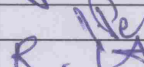
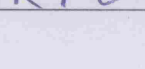

## 2.0 Chemistry and mechanical properties


a	Chemistry	Melt wise	As per respective spec
b	Tensile strength, yield strength and % Elongation at room temperature	Melt wise and batch wise heat treatment *	As per respective spec
c	Impact strength at 0° C	-do-	To be done on ISO V specimens. Average of 3 specimens shall be 60J in longitudinal direction or 40J in transverse direction. Test can be done in any one direction.
d	0.2% yield strength test at elevated temperature (400 deg. C)	-do-	This shall be minimum 530 Mpa

**Note** \* 1. Melt wise if heat treatment is done in continuous process.  
2. Melt wise and batch wise if heat treatment is done in batches.

## 3.0 Dimensional Tolerances

- 3.1 Tolerances on thickness shall be as per EN 10029 Class C.

Prepared by 	Reviewed by	Signature	Approved by  25/10/13 (Head / QA)
	ENGG(Fans)	 25.10.13	
	QC (Proc)	 24.10.13	
	MPL	 24.10.13	
	Purchase	 24.10.13	
	QA	 24.10.13	

 Ranipet	<b>Technical Delivery Conditions (TDC)</b> <b>For</b> <b>High Strength Quenched and Tempered fine grain</b> <b>Steel plates</b>	Doc.Ref.	TDC:RTF:306
		Rev.No.	12
		Date:	23 10 2013
		Page No.	02 OF 03

<b>Issued by Quality Assurance</b>
------------------------------------

#### 4.0 Ultrasonic examination

- 4.1 All the plates thickness shall be ultrasonically examined on surface and edge as per EN 10160 and acceptance norm is E1 & S1 of EN 10160.


#### 5.0 Surface requirement, marking and painting.

- 5.1 Surface condition shall be class B and repair condition shall be class B3 as per EN 10163-2.
- 5.2 Flatness shall be class S of EN 10029- Steel type H.
- 5.3 Plates shall be painted with rust inhibitive painting to withstand marine corrosion.
- 5.4 Melt No., Plate No., specification and maker's emblem shall be hard stamped or stenciled on every plate.

#### 6.0 Test Certificate


- 6.1 Test certificate in English shall be submitted for following properties as per 3.1 of EN 10204 (PI see Cl.2.0 above)

a	Chemistry	Melt Wise
b	Tensile properties, yield strength and % Elongation at room temperature, impact properties	Melt wise & heat treatment batch wise.
c	Internal soundness	As per Cl. 4.1
d	High temperature test	As per Cl. 2.0 d

 Ranipet	<b>Technical Delivery Conditions (TDC)</b> <b>For</b> <b>High Strength Quenched and Tempered fine grain</b> <b>Steel plates</b>	Doc.Ref.	TDC:RTF:306
		Rev.No.	12
		Date:	23 10 2013
		Page No.	03 OF 03

### Record of revisions

Rev No.	Clause revised	Revision made	Date
00	--	Original Issue	23 06 94
01	--	Totally revised to include equivalents	29 06 95
02	1.2(1)	Latest Thyssen catalogue No. added	10 08 95
03	1.2(5)	Item No.3 data sheet edition is updated to Sep.95	06 04 96
04	1.2	Weldox 700 E is changed to Weldox 700F	02 09 96
05	1.2	Item -1 data sheet edition is updated to Sept.1996	02 05 97
06	1.2 6.1	Material S690 QLI of En 10137-2 is included Amend a1 requirements included	17 07 00
07	1.2 7.2 (f)	Materials catalogue years updated Deleted	16 07 01
08	3.1	Totally revised	02 05 02
09	--	UT norm EN 10160 included in view of obsolescence of SEL 072 and datasheet versions updated.	24 05 07
10	4.1,5.2,5.3,6.1	Modified	15 05 09
11	1.2 (g), (h) & (i)  3.1  5.2	a) In 1.2 (g) the std EN 10137-2 was replaced with EN 10025-6 b) In 1.2 (h) & (i) added. a) Cl. 3.1: Thickness as per EN 10029 class C added & table deleted. a) Cl. 5.2 added.	14 11 11
12	1.2 (a) 2.0 5.2	Naxtra 70 renamed as Naxtra 700 Note 1 and 2 added. Steel type L replaced with type H	23 10 13

 Ranipet	<b>Technical Delivery Condition(TDC)</b> <b>FOR</b> <b>WELDABLE FINE GRAIN STEEL PLATES NORMALISED</b> <b>(P355NH OF EN 10028-3)</b>	Doc Ref:	<b>TDC:RTP:311</b>
		Rev.No.	<b>03</b>
		Date:	<b>15 05 09</b>
		Page No	<b>01 of 02</b>

## 1.0 SCOPE

- 1.1 This TDC is applicable for weldable fine grain steel plates in normalized Condition to grade P 355 NH of EN 10028 Part 3.
- 1.2 Plates shall be supplied as per EN 10028-3. Only special requirement are specified in this TDC.

## 2.0 CHEMICAL& MECHANICAL PROPERTIES

- 2.1 Impact Test: This test shall be conducted at + 20° C.
- 2.2 Hot Tensile Test: This test shall be done at + 300°C
- 2.3 Through thickness Property: Z 35, test for reduction of area Perpendicular to plate's surface shall be done as per EN 10164 for Thickness > 15 and < 63 mm alone.
- 2.3.1 Chemistry shall be as per spec.

## 3.0 TOLERANCES

- 3.1 Tolerances on thickness shall be as per the table given below & other Tolerance shall be as per EN 10029.


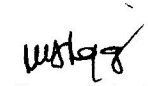

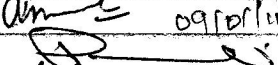
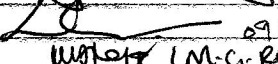
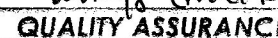

Thickness(mm)			Tolerances(mm)	
3	to	5	-0	to + 1.2
5	to	8	-0	to + 1.5
8	to	15	-0	to + 1.7
15	to	25	-0	to + 1.9
25	to	40	-0	to + 2.2
40	to	80	-0	to + 2.8


## 4.0 SOUNDNESS

- 4.1 All the plates shall be ultrasonically examined on surface and edge as Per EN 10160 and acceptance norms is E1 & S1 of EN10160.

## 5.0 PAINTING

- 5.1 Plates shall be painted with rust inhibitive painting to withstand marine corrosion
- 5.2 Melt No., plate no., specification and maker's emblem shall be hard stamped and stenciled on every plate.

Prepared by 	Reviewed by	signature	Approved by  (Head/QA) (M.C. RADASAMICAR)
	Engg (Fns)		
	QC(Proc)		
	MPL.		
	PUR		
	QA	 (M.C. RADASAMICAR)	
Issued by <b>QUALITY ASSURANCE</b>			

 Ranipet	<b>Technical Delivery Condition(TDC)</b> <b>FOR</b> <b>WELDABLE FINE GRAIN STEEL PLATES NORMALISED</b> <b>(P355NH OF EN 10028-3)</b>	Doc Ref:	<b>TDC:RTF:311</b>
		Rev.No.	<b>03</b>
		Date:	<b>15 05 09</b>
		Page No	<b>02 of 02</b>

**6.0 SURFACE REQUIREMENTS:**

- 6.1 Surface conditions shall be class B and repair  
Condition shall be class B3 as per EN 10163-2.

**7.0 INSPECTION & TEST CERTIFICATE**

- 7.1 The items manufactured within India, shall be subjected to inspection by  
BHEL or authorized agency.
- 7.2 Test certificate for the following properties shall be submitted as per 3.1  
Of EN 10204,

a	Chemistry	Melt wise
b	Tensile properties	Melt wise and heat treatment batch wise.
c	Impact properties	
d	Internal soundness	As per cll no 4.1
e	Elevated temperature ( + 300 deg C) yield strength)	As per cl 2.2

Rev No	Clause revised	Revision made	Date
00	--	Original issue	29 05 95
01	5.0	Amendment requirements included & painting requirements added	17 01 00
02	--	Totally modified	02 05 02
03	5.1,5.2	Modified based on discussions	15 05 09



## TECHNICAL CONFIRMATION / DEVIATION REPORT

Sl.No	Description	BHEL's requirement	Supplier's comments
01	Sizes	Item wise size quoted in line with our requirement to be confirmed. Any deviation item wise to be mentioned.	
02	Specification	Quoted specification in line with our requirement to be confirmed. In case of offer with equivalent material grade, then copy of the entire specification of that equivalent grade shall be sent along with the techno-commercial bid without fail.	
03	TDC	Clause wise confirmation in line with our TDC to be confirmed. In case of any deviation, clause wise to be mentioned in the below SDDR.	
04	Specification deviation disposition report (SDDR)	Below SDDR to be filled & submit without fail. <b><u>(Even if no deviation is taken, NIL report to be submitted).</u></b>	

SPECIFICATION DEVIATION DISPOSITION REPORT			
Specn		Item	
Enq.No & Date			
Vendor Name			
TDC			
No	Clause	Details Of Deviation With Reason	Disposition By BHEL
Signature Of Vendor			Reviewed By
<p style="text-align: center;"><b>“ AGREED DEVIATION “</b> if any to be incorporated in the PO in the event of order.</p>		APPROVED BY	

DATE:

SIGNATURE WITH SEAL

Enq No:

SL.	CLAUSE	CLAUSE DETAIL / BHEL'S REQUIREMENT	SUPPLIER'S CONFIRMATION	Deviations, if any
1	PRICE	Firm till completion of order.		
2	DELIVERY TERMS	<b>For Indigenous suppliers: F.O.R. DESTINATION (Destination: BHEL Stores, Ranipet) For Foreign suppliers: CFR Chennai Sea Port Basis only and insurance in BHEL's scope.</b>		
3	PACKING CHARGE	To be included in Basic.		
4	FORWARDING CHARGE	To be included in Basic.		
5	FREIGHT CHARGES	Please mention in terms of 'PER UNIT' or include it with Basic.		
6	INSURANCE	Please mention in terms of 'PER UNIT' or include it with Basic.		
7	OTHER CHARGES	Please mention, if any.		
8	GST %	To be indicated by supplier.		
9	HSN CODE	To be indicated by supplier.		
10	GSTN NO. OF ORG.	To be indicated by supplier.		
11	BHEL'S PAYMENT TERMS	(i) Indigenous Vendors: 100% Direct payment through EFT within 120 days from receipt and acceptance of materials at our stores. (ii) Foreign Vendors: 100% Direct payment through EFT within 120 days from receipt and acceptance of materials at our stores. In case LC is insisted, it shall be 100% Irrevocable Unconfirmed Letter of Credit with 120 days usance period with all charges within India to BHEL account and outside India to Supplier's account.		
12	DELIVERY PERIOD	60 days from PO		
13	L.D. CLAUSE	The applicable LD shall be at the rate of 0.5% per week to maximum of 10% for the undelivered portion and for the deliveries made beyond the agreed Delivery Period. Delivery being the essence of BHEL's contract requirements, in the event that a Supplier does not accept the above LD condition, the offer would be loaded to the extent of the shortfall with respect to upper limit specified above. Date of material receipt at our stores (Day Book date) will be considered as the "Delivery date as mentioned in purchase order for indigenous vendors and OBL date shall be reckoned delivery date for import vendors.		
14	OFFER VALIDITY	Minimum 90 days from the date of Technical Bid opening		
15	INSPECTION BEFORE DISPATCH	Inspection before dispatch at supplier's works		
16	TEST CERTIFICATE	To be submitted. With Chemical and Mechanical properties and dimensions as per Standards and our Technical Delivery Conditions		
17	RISK PURCHASE CLAUSE	Your confirmation to our standard risk purchase clause that alternatively the Purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss which the purchaser may sustain by reason of such risk purchases.		
18	BHEL STANDARD GUARANTEE CLAUSE	Your confirmation to our standard Guarantee clause that the materials are to be guaranteed for satisfactory performance for a period of twelve months from the date of commissioning / putting into use (or) eighteen months from the dispatch whichever is earlier and if any defect is noticed during the above period, the same shall be rectified/replaced free of cost on Ranipet/ Destination basis within a reasonable time. To this effect a Guarantee certificate should be sent along with the dispatch documents in the event an order.		
19	MSME / NON MSME STATUS	Please mention whether your company falls under the category " MSME or non MSME. If MSME - Micro, small or medium enterprise, copy of certificate attested by certified chartered accountant shall be submitted along with the offer. [IMPORTANT NOTE: - MSE suppliers can avail intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (Five years from the date of issue of acknowledgement of EM II) or valid NSIC certificate or EM II certificate along with attested copy of a chartered accountant certificate applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed documents will lead to consideration of their bid at par with other bidders. No benefits shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. Documents should be notarised or attested by a gazetted officer.]		
20	PLACE OF MANUFACTURING	Please mention your complete address of the place of manufacturing.		
21	ACCEPTANCE FOR REVERSE AUCTION	Not Applicable		
22	CONTRACT EXECUTION BANK GUARANTEE (CEBG): THE SUPPLIER SHALL SUBMIT A BG FOR 2% OF THE CONTRACT VALUE VALID FOR THE AGREED DELIVERY PERIOD + 3 MONTHS. ATTACHED CEBG FORMAT IS TO BE SIGNED AND SUBMITTED AS A TOKEN OF ACCEPTANCE. PLEASE NOTE NO DEVIATION IS ALLOWED.	To be confirmed by supplier		
23	SUPPLIER REGISTRATION FORM- ONLINE SUBMISSION IS TO TO BE DONE AND SOFT COPY OF THE SAME TO BE UPLOADED ALONG WITH TECHNICAL BID BY NEW VENDORS.	To be submitted by supplier		
24	FOREIGN OFFERS: COUNTRY OF ORIGIN, MILLS LETTER OF AUTHORITY & AGENCY AGREEMENT	To be submitted by supplier		



25	WHENEVER THERE IS AN INDIAN AGENT TO REPRESENT A SUPPLIER, IT IS MANDATORY TO GIVE THE DETAILS OF SERVICES TO BE RENDERED BY INDIAN AGENT AND / OR THE DETAILS OF AGREEMENT BETWEEN SUPPLIER AND AGENT. SUPPLIER TO INDICATE THE AGENCY COMMISSION PAYABLE. INDIAN AGENCY COMMISSION WILL BE PAID ONLY IN INDIAN RUPEES, CALCULATED AT THE RATE OF EXCHANGE PREVAILING ON THE DATE OF PRICE BID OPENING. THIS IS PAYABLE ON SATISFACTORY COMPLETION OF THE CONTRACT. AGENCY AGREEMENT COPY SHALL BE SUBMITTED WITHOUT FAIL.NOTE: IN ORDER TO MAINTAIN SANCTITY OF THE TENDER SYSTEM, IT IS MANDATORY THAT ONE AGENT CANNOT REPRESENT TWO SUPPLIERS OR QUOTE ON THEIR BEHALF IN A PARTICULAR TENDER ENQUIRY. IF ANY AGENT REPRESENTS MORE THAN ONE SUPPLIERS ALL SUCH OFFERS WILL BE REJECTED.	To be confirmed by supplier		
26	TECHNICAL DELIVERY CONDITION (TDC)	As per TDC Attached. Clause wise / Point wise confirmation to be Submitted.		
27	CONTACT PERSON NAME, CONTACT NO. & E-MAIL ID.	Please mention		
28	ALTERNATE CONTACT PERSON NAME, CONTACT NO. & E-MAIL ID.	Please mention		
29	QUANTITY TOLERANCE	As per Annexure A		
30	INVOICING	Actual therorieical Weight basis only		
31	ANY OTHER DEVIATIONS	Please mention		
32	CURRENCY QUOTED	Please mention		