



MISHRA DHATU NIGAM LIMITED

A Govt of India Enterprise

P. O Kanchanbagh, Hyderabad – 500058, TS, India.

Corporate Identity Number: L14292AP1973GOI001660

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GLOBAL TENDER INVITATION

Tender Notice No.: MDN/PUR/58230007/ADVT/458/25-26, Date: 02.12.2025

End of Issue of Tender Documents up to: 30.12.2025 at 10:30 Hrs.

Receipt of Tender on or before: 30.12.2025 at 10:30 Hrs.

Opening of Tender Date: 30.12.2025 at 10:35 Hrs.

Sl. No	MATERIAL	Estimated Requirement	
	DESCRIPTION & SPECIFICATION.	Unit	Qty
1	Supply of Work Rolls for 4-Hi Wide Plate Mill as per specification at Annexure-I	Nos.	02

1.0 EARNEST MONEY DEPOSIT: All bidders shall submit an **EMD amount equivalent to INR 2,00,000/- (or) USD 2,242/-** in the form of DD through Scheduled Bank payable at Hyderabad or Bank Guarantee confirmed through shall a Nationalized Bank / Scheduled Commercial Bank encashable at Hyderabad shall be enclosed with Techno-Commercial Bid. If EMD is **not found enclosed, such offers would be liable for rejection.** Bank Guarantee shall be valid for a period of 180 days. EMD is exempted for MSEs as per Government Guidelines.

2.0 Security Deposit: The Security Deposit of 5% Order Value shall be submitted on placement of order, through Bank Guarantee as per format enclosed from a Scheduled Bank of India encashable in Hyderabad, India with validity till successful completion of the Order, within 30 days from the placement of order.

In case Security Deposit is not submitted within the stipulated time as above, interest @ 12% p.a. shall be levied for the period of delay beyond the stipulated time. Interest as above may be either deposited by the supplier / contractor or recovered from any amounts due to the supplier / contractor.

3.0 All Bank Guarantee (EMD / SD / Advance / PBG) submitted:

- Shall be from National Bank / Scheduled Commercial Bank encashable in India and in our prescribed formats only.
- Bank Guarantee (SD/Advance/PBG) shall have an additional claim period of three months from the date of three months.

4.0 Multiple offers from bidders under same group of companies are liable for rejection.

5.0 Integrity Pact: All bidders shall submit the signed Integrity Pact enclosed herewith along with Techno-Commercial Bid. If the signed Integrity Pact is not found enclosed, such offers would be liable for rejection.

6.0 Preference under Make in India programme as per below mentioned notifications shall be provided to all Local Vendors.

Public Procurement (Preference to Make in India) Order – 2017 dated 15.06.2017.

List of Tender Documents: -

S. No	Document Description	No. of Pages
Invitation to Tender		
Annexure-I	Detailed Technical Specification & Drawings	06
Annexure-II	Commercial Eligibility Criteria	02
Annexure-III	Special Conditions of Contract (SCC)	10
Annexure-IV	General Conditions of Contract (GCC)	76
Annexure-V	Procedure to be Followed for Submission of Tender	01
Annexure-VI	Specimen Format of Bank Guarantees	11
Annexure-VII	Specimen Format of Pre-Contract Integrity Pact	10
Annexure-VIII	Public Procurement (Preference to Make in India), Order 2017 – Revision	09

Yours faithfully
For Mishra Dhatu Nigam Limited



Senior Manager (Purchase)

अमित कुमार सिंह / Amit Kumar Singh
वरिष्ठ प्रबंधक (प्रय) / Sr. Manager (Purchase)
मिश्र धातु निगम लिमिटेड/Mishra Dhatu Nigam Limited
कचनबाग, हैदराबाद-58 / Kanchanbagh, Hyd-58

Technical Specifications of Work Rolls for 4-Hi Wide Plate Mill

1. Scope:

The supplier shall manufacture, heat treat, test and supply 2 nos of work rolls along with end bushings as per the below specification.

2. Technical Specifications:

Barrel Max Diameter : 940 mm
Barrel length : 3300 mm
Total Length : 6990 mm
Barrel Min Diameter : 865 mm
Depth of Hardness : minimum 50 mm on radius
Barrel hardness : 68-72 HSc
Neck hardness : 40-45 HSc
Barrel surface : Flat Profile with Surface Roughness of Ra 0.8
Net weight : 24765 Kgs
Roll Data Sheet : 6.342163.C
Material : Indefinite chilled double poured alloy CI with nodular core.
Quantity of rolls : 2
Drawing : 8.827075.Z
Note: Rolls shall be strictly as per the drawings enclosed.

3. Delivery:

FOR MIDHANI within 10 Months from the date of PO.

4. Acceptance Criteria:

The supplier shall submit the following reports to issue dispatch clearance by Midhani.

1. Hardness test certificate on barrel surface and roll neck.
2. Dimension report certificate of rolls
3. Chemical cast report of the roll.
4. Ultra sonic test report for flaws and sub surface cracks.
5. Hardness curve indicating the depth of hardness at roll minimum diameter.

Midhani shall inspect the rolls after receiving at stores and Materials not conforming to the specifications shall not be used and shall be liable for rejection.

5. Guarantee/Warranty:

The rolls supplied should be ultrasonically sound and free from all manufacturing defects such as blowholes, cavities, non-metallic inclusions, pipes segregation, cracks, hard spots, hard patches, flakes etc. which may adversely affect the life of rolls or hinder attaining of surface finish during turning.

The Supplier shall stand guarantee for total useful life of the roll. Total useful life of the roll shall be calculated from maximum diameter to minimum diameter as indicated in the roll data sheet 6.342163.C

The guarantee period for full replacement as well as for pro-rata penalties shall be 5 years from the date of dispatch, for rolls with latent defect, (e.g. blowholes, cavities, non-metallic inclusions, pipes segregation, cracks, hard spots, hard patches, flakes etc) and for rolls

which do not conform to drawing or mutually acceptable specifications, the supplier will replace the roll free of cost on landed cost basis at Midhani Stores.

Roll fails within 0-10% of guaranteed life: Supplier shall replace the roll free of cost on DDP Midhani Stores, Hyderabad.

Roll fails at more than 10% life but less than guaranteed life: Pro-rata compensation for the non-performed life shall be recovered on landed cost FOR- Midhani Stores. A record of rolling for each roll and the defects observed shall be maintained by Midhani. Should the rolls fail prematurely the matter will be investigated jointly by Midhani and the supplier. Based on this report, pro-rata compensation / replacement will be effected.

6. Eligibility:

Bidders shall have supplied similar Work Rolls ie., of Diameter 900mm or above within past 10 Years. Purchase Order/Contract documents along with proof of acceptance/satisfactory performance certificate from the end customer shall be submitted along with the Offer.

WORK ROLL REQUIREMENTS

WORK ROLL REFERENCE DWG. 7.240753.S/001

MATERIAL: INDEFINITE CHILL, DOUBLE POURED ALLOY

CAST IRON WITH NODULAR CORE

01

ROLLS TO BE SUPPLIED ACCORDING TO DANIELI STD. 2.8.036
THIS WORK ROLL WORKS WITH THE BACK UP ROLL DWG 7.240752.Z

ROLL BARRELL HARDNESS: 68±72 HSc; MIN 50 mm DEPTH (ON RADIUS)

ROLL NECK HARDNESS: 40±45 HSc

ULTIMATE TENSILE STRENGTH: 380 MPa minimum

MINIMUM BENDING STRENGTH: 680 MPa minimum

FATIGUE STRENGTH FOR COMPLETE REVERSED

NORMAL BENDING STRESS FOR NECK: ±180 MPa

WIDE PLATE MILL DATA

1) WORK ROLL DATA

- DIMENSIONS
MAXIMUM DIAMETER 940 mm
MINIMUM DIAMETER 865 mm
BARRELL LENGTH 3300 mm
TOTAL LENGTH 6990 mm
WEIGHT ~24765 Kg

3) WORKING DATA

MAX. SEPARATING FORCE 60000 KN
MAX. TOTAL ROLLING TORQUE 2083 kNm
MAX. WORK ROLL SPEED 100 rpm
MAX. BACK-UP ROLL SPEED 56 rpm
MAX. BENDING FORCE 2500 KN (EACH CHOCK)
TEMP. OF MATERIAL TO BE ROLLED ~600 ± 1250°C

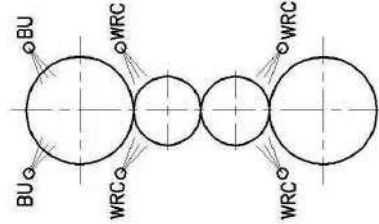
2) BACK-UP ROLL DATA

- DIMENSIONS
MAXIMUM DIAMETER 1830 mm
MINIMUM DIAMETER 1675 mm
BARRELL LENGTH 3300 mm
TOTAL LENGTH 7830 mm
WEIGHT ~89490 Kg

4) PLATE/STRIP DATA

ENTRY THICKNESS 25 ± 250 mm
EXIT THICKNESS MIN 5 mm
PLATE WIDTH 900 ± 3000 mm
MAT. GRADES: TITANIUM AND TITANIUM ALLOYS
-SPECIAL STEELS, ZNICOAL08-9-5, DIN 16358, ETC.
-LOW ALLOY STEELS, HSLA, ETC
-STAINLESS AND ALLOY STEELS, AISI310, 316LN, 304, ETC.
-SUPERALLOYS, NIMONIC 600, 718, 263, ETC.

ROLL COOLING DATA



LEGEND:

BU Back Up Roll Cooling
WRC Work Roll Cooling

Pressure at Nozzle Header Type N° of headers Flowrate per headers (m³/h) Total flowrate (m³/h)	Water flowrate Pump operating pressure	Water flowrate for B.U.R
	10 bar WRC 4 75 300	3 bar BU 2 22.5 45

RESPONSABILITIES

ROLL MANUFACTURER IS CONSIDERED TO BE FULLY RESPONSIBLE OF THE ROLL PERFORMANCE IF THE MILL IS OPERATED AS INDICATED ON THIS DATA SHEET.

ROLL MANUFACTURER TO CONTACT DANIELI TECHNICAL OFFICE IF FURTHER INFORMATION ARE REQUIRED.

01	20 Oct 2017	MODIFICATO DOVE INDICATO	01
00	25 Jul 2017	REVISO EMISSIONE	
		ISSUED	

Rev.	Date	Revisions description	Checked by	Approved by
		Material 1 (where not indicated on drawing)	State of supply Mat.1	Danieli Supply Std. Patrarn DB
		Material 2	State of supply Mat.2	Danieli Supply Std. Casting Code
		Material 3	State of supply Mat.3	Danieli Supply Std. Supply Class

Heat Treatment

On Drawing Symbol, if required,

Coating

On Drawing Symbol, if required,

Unquoted radius (mm) | Dimensions without tolerance as per Matchings | Max. Welding Class
[DANIELI STD 2.4.103]

Project Name



Job nr

Obtained from 6.307378.S

Replaces

Family code/Machine code

8000

Weight (kg)

J (kgm²)

Title

FOGLIO DATI CONDIZIONI OPERAT. CIL. DI LAVORO



Scale

WORK ROLL OPERATING CONDITIONS DATA SHEET

Danieli Shop number

6.342163.C

Revision

01

Format

A3

Nr. of sheets

001

Revision

001

Danieli dwg number

Follow

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File nr 6.342163C_001

ELIGIBILITY CRITERIA

Sl. No	Criteria	Documents required for confirmation
01	<p><i>Bidder (sole)/Lead Consortium Partner/Original Equipment Manufacturer</i></p> <p>a) Should have been established and operating for a period of at least 05 years prior to the date of Tender.</p>	<p><u>For (a):</u></p> <ul style="list-style-type: none"> - Certificate of Incorporation issued by the Registrars of Companies "OR" - Certificate of Registration by Registrar of Firms "OR" GST Registration in case of proprietary firms "OR" - Relevant Registration/Incorporation Certificate issued by Concerned State authorities, in case of Foreign Firms with proof of address. <p>Note: Other partners/associate/representative of OEMs shall also submit relevant certificates of Incorporation/Registration certificate.</p>
02	<p><u>Annual Turnover</u></p> <p><i>Bidder (sole)/Lead Consortium Partner/Original Equipment Manufacturer</i></p> <p>Should have a minimum average annual turnover of Rs. 3.00 Cr for previous three financial years.</p>	Audited annual accounts
03	<p><u>Positive Net Worth/Solvency:</u></p> <p><i>Bidder (sole)/Lead Consortium Partner/Original Equipment Manufacturer</i></p> <p>Should have Positive Net worth in each of the previous three financial years</p> <p>"OR"</p> <p>Should submit solvency certificate for Rs. 82 Lakhs issued not earlier than 6 months from the date of Tender.</p>	<p>Audited annual accounts</p> <p>"OR"</p> <p>Certificate from a Practicing Chartered Accountant for net worth of the company issued not more than 6 months before the date of tender with seal and Membership Number mentioned on the certificate in Original.</p> <p>"OR"</p> <p>a) In case of Indian parties, it should be issued by Nationalized or scheduled bank from INDIA in Original.</p> <p>b) In case of foreign parties, it should be issued by Nationalized or schedule bank from India having a branch in the foreign land or countersigned by Nationalized or schedule bank of India in Original.</p>
04	<p><i>Bidder (sole)/All Consortium Partners</i></p> <p>Should have PAN/ TAN/TIN/GST registration or Relevant Tax Registration of Foreign parties</p>	<p>a) Copy of registration certificates for Indian parties.</p> <p>b) In case of foreign parties, relevant tax registration certificate from the countries where the company is registered.</p>

05	Bidder (sole)/All Consortium Partners Unconditional acceptance of all commercial terms and conditions.	Self certificated document to be submitted
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In case of Consortiums:

- Consortium agreement (Memorandum of Agreement) signed by legally authorised signatories of respective consortium members/partners, shall be valid till completion of the contract & Defect Liability Period and shall form part of the Contract.
- Consortium agreement clearly defining the roles and responsibilities of each party and signed by all the consortium members/partners shall be submitted along with the techno-commercial offers.
- BGs to be submitted by each member/partner for value of their respective scope of work and Order/Contract shall be signed by all members/partners of the Consortiums.
- Payments to be made to respective members/partners directly for their respective scope of work (ex: In case of INR payments to Indian Partners in the Consortium etc), which shall be indicated in the techno-commercial offer/authorised by the Lead Partner.
- Lead Partner of the Consortium shall be overall responsible for the execution of the Contract. The Leader and other Members of the Consortium shall be jointly and severally liable for the execution of the Contract, but will be liable for damages in proportion of the respective Contract Price.

In case of participation from Authorised Dealer/Associate/Authorised Representative of Original Equipment Manufacturer:

- Agreement clearly describing the roles and responsibilities of OEM and Associate jointly signed by OEM and the Associate along with the techno-commercial offer. Agreement shall be valid till completion of the contract / order and Defect Liability Period, in case contract/order is awarded to them.
- OEM to submit Authorisation/Undertaking along with the above said agreement which shall read thus
*“We are appointing the Project Associate/Authorised Representative _____ who are authorised to submit/participate in the tender on our behalf, use our credentials, conduct discussions/negotiations for the tender and also sign the Contract/Purchase Order on our behalf.
We stand responsible against the actions of our Associate/Representative pertaining to this tender. We shall take the responsibility of technical suitability as per tender/purchase order/contract (if placed), establishment of performance guarantee during commissioning and Warranty/Guarantee during defect liability/Guarantee/Warranty period.”*
- Contract shall be signed between the Associate and MIDHANI, however agreement between OEM and the associate(s) shall be an integral part of the Contract.