भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
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Government of India-Ministry of Railways
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Lucknow - 226 011
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No. WKS/67/VD/TMT

Date 21.02.2022

General Manager (Const.)/NFR, Guwahati,
Principal Chief Engineer,
Chief Administrative Officer/Const. &
Chief Engineer (PUs)
(As per mailing list)

Sub: Registered firms as supplier of TMT Reinforcement Bars on Indian Railway.

Ref: i) Railway Board letter no. 2007/CE-1/CT/8 dated 07.03.2014, 26.08.2014, 31.03.2015 & 22.01.2016.
ii) Railway Board letter no. 2022/TK-II/22/7/1 dated 09.02.2022 (copy enclosed).

1. Vendor approval of TMT reinforcement bars for manufacture and supply to Indian Railway was being carried out by RDSO as per instructions issued vide Railway Board letter under references (i) and accordingly list of approved vendors was circulated to Zonal Railways/PUs time to time & was uploaded at IREPS WEBSITE, UVAM Module.

2. Now, Railway Board (with approval of Member Infra) vide letter under reference (ii) has decontrolled the item TMT reinforcement bars and has directed that "**Vendor approval for decontrolled items shall be discontinued by RDSO and these can be purchased from market based on specifications**". Accordingly RDSO has discontinued the "Vendor approval" and "List of approved vendors" for manufacture and supply of TMT reinforcement bars to Indian Railway is no longer in force.

3. The Schedule of Technical Requirements (STR) used for the purpose of vendor approval is sent herewith, which can be used as guidance for framing the suitable specifications.

4. Zonal Railways are requested to make suitable corrections in this regard in their contracts/tenders.

21/02/22
(Praveen Khorana)
Executive Director/Works

DA: As above.

Signature Not Verified
Digitally signed by Subramanian Thangavel
Date: 2026.04.07 12:42:53 IST
Reason: IREPS-CRIS
Location: New Delhi

सत्यमेव जयते

Government of India - Ministry of Railways
RESEARCH DESIGNS & STANDARDS ORGANISATION

DOCUMENT NO. WK-G-8.1-1 Ver. 1.3
(Earlier Doc. No. WK-G-8.1-1 Ver. 1.2)

SCHEDULE OF TECHNICAL REQUIREMENTS

for

SUPPLY OF TMT REINFORCEMENT BARS TO IR

WORKS DIRECTORATE

RESEARCH DESIGNS & STANDARDS ORGANISATION

MANAK NAGAR, LUCKNOW – 226011

Signature Not Verified
Digitally signed by SANTOSH KUMAR CHAUDHARY
Date: 2021.03.15 17:41:14 IST
Reason: IREPS-CRIS
Location: New Delhi

SCHEDULE OF TECHNICAL REQUIREMENTS FOR SUPPLY OF TMT REINFORCEMENT BARS TO IR

A. ELIGIBILITY CRITERIA :

I. "The vendor, who intends to register as supplier of steel (TMT reinforcement bar) to Indian Railways, should be a producer of steel, irrespective of process route, starting their operations from iron making, using iron ore, virgin or processed, with necessary refining facilities/ methodology and rolling / processing facilities at a single location or else in multiple locations provided that the entire gamut of iron & steel production, from iron making to finished steel production, is owned by the same company or its subsidiary company(ies) and provided that the iron making capacity is sufficiently matching the steelmaking capacity. Further, downstream units should use material from the upstream units of the same company or its subsidiaries with traceability system".

II. The vendor had already produced minimum 50,000 Metric Tonnes TMT Reinforcement bars in every year for the last 3 years. However, total production quantity 1,50,000 MT shall be considered upto last 36 months prior to the month of submission of application.

IIA. Any case rejected after plant visit shall be considered only after completing the production of 1,50,000 Metric Tonnes TMT Reinforcement bars (after the month of rejection) including submission of satisfactory compliance of cause of rejection. However, firm should qualify Criteria II above regarding production of TMT Reinforcement bars.

III. TMT reinforcement bars should comply to IS: 1786 (latest) as well as Para 5.3 of IS: 13920 (latest) for all seismic zones i.e. II, III, IV or V.

IV. For DRI – EIF process route of steelmaking – Firm should have refining facilities such as LRF or any other established technology of suitable capacity matching in line with the production of liquid steel for manufacturing of TMT reinforcement bars.

B. REQUIREMENTS:

Vendor, who is fulfilling the eligibility criteria mentioned in 'A' above needs to submit following documents along with application:

1. **Quality Assurance Plan (QAP)**: covering manufacturing process, quality control measures, internal inspection plan, details of tools and plant, test piece manufacturing facilities, system of maintaining the data of customer complaints/warranty failures & details of testing equipment along with the details of qualification / experience of quality control personnel as per QAP format available on RDSO's website.

1. Certificates issued by plant manufacturer/ plant consultant stating that firm is producing raw steel from iron ore or processed iron ore and entire infrastructure for producing sponge iron, billet and TMT Reinforcement Bars using iron ore as the basic material at single / multiple locations by the same company or its subsidiary companies (with plant address details) with details of installed annual production capacity in terms of sponge iron, billets and TMT Reinforcement Bars. In case of group concern units, firm needs to submit details of shares holdings / common shareholders certified by Chartered accountant.
2. Copy of legible layout plan of steel plants, indicating details of existing facilities.
3. Factory license showing work address and document showing office address.
4. Certificate issued by Plant manufacturer / Plant consultant (with documentary proof of process) establishing process of steel making (such as BF – BOF route / Corex – BOF route / DRI – EAF/EIF route or any other technology) being used at plant as steel producer, manufacturing TMT reinforcement bar using iron ore as basic raw material.
5. Summary of monthly production of Sponge Iron, Billets & TMT Reinforcement Bars carried out in last three or more years and purchase / sale details of sponge iron / pellets & billets (purchased from subsidiary(ies) firms only) for last 36 months certified by Chartered Accountant. Supporting documents including Purchase orders / Sale invoices shall be verified during plant visit.

C. LIST OF PLANT/ MACHINERY AND EQUIPMENTS:

SN	ITEM
A.	**Manufacturing facilities / equipments**
i.	Blast Furnace / Rotary Kiln (for DRI)/ COREX or any other patented technology
ii.	Electric Arc Furnace / Electric Induction Furnace/ Basic Oxygen Furnace
iii.	Refining facilities for liquid steel
iv.	Billet Caster (Continuous Casting Machine)
v.	Re-heating furnace (if applicable)
vi.	Rolling Mill
vii.	Quenching system (Any licensed quenching system)
B.	**Testing Facility**
i.	Digital Universal Testing Machine with extensometer facility.
ii.	Bend, Re-bend facility as per IS: 1786 (Latest)
iii.	Raw Material laboratory : Arrangement for testing C, S, P
iv.	Spectrometer
v.	Other testing facilities as specified in IS:1786 (Latest), IS: 13920 (Latest) & IS: 2830 (Latest)

D. PROFORMA FOR TECHNICAL CAPABILITY ASSESSMENT/REASSESSMENT FOR MANUFACTURE AND SUPPLY OF TMT REINFORCEMENT BARS {confirming to IS: 1786 (Latest) & Para 5.3 of IS: 13920 (Latest)} TO INDIAN RAILWAYS

NOTE: (i) All details to be filled in by the firm. No para to be left blank.

(ii) All manufacturing and testing facilities to be available in the unit.

(iii) Attach documents separately wherever required.

GENERAL INFORMATION

1. Section - I:

1.1 Name of the firm ----------

1.2 Address:

a) Head office: ----------

b) Works: ----------

c) Distance of Works in Km from the Nearest Railway station. : ----------

d) Nearest Railway Station. : ----------

e) Distance of Firm's railway siding from nearest railway station (if applicable): _____

f) Source of water intake for firm's work unit: _____

g) Registered trademark of TMT bar: _____

h) Six digit Bureau of Indian Standards Identification Number (BIS Id. No.) of work unit being marked on TMT Reinforcement bars: _____

1.3 Factory Area (in Sq.m.)

a) Covered: ----------

b) Uncovered: ----------

c) Is the factory site in your name or on rental basis?----------

(With supporting documents).

1.4 (a) Telephone Numbers:

(i) Head office: ----------

(ii) Works' premises. : ----------

(b) Telegraphic / Telex address / Fax Nos.:

(i) Head Office: ----------

(ii) Works' premises: ----------

(iii) E-mail Address: ----------

1.5 Power Availability: (KVA)

a) General allotted capacity & In – house power generation :----------

b) Name the part / person in whose name the power is:---------- Sanctioned and your agreement with the party/person (Support with reasonable documents)

1.6 Name of any other units located in the above premises :----------

1.7 Name & work address of other units / group concerns:_____.

(Please furnish the name & address of other units of the firm if any, where TMT reinforcement bar is being manufactured irrespective whether these are required to be registered with RDSO or not)

1.8 Man-power management (Attach list separately):

a) Managerial Staff :----------

b) Shop Floor Engineers / Supervisors. :---------- (Their number, names, qualification & service experience)

c) Laboratory in-charge whether full or part time :---------- (Indicate his / her name, qualifications & service experience)

d) Inspection & quality control staff :---------- (Give their names, qualification & service experience).

TECHNICAL INFORMATION

2. SECTION- II

2.1 Manufacturing Facilities

(i) Blast Furnace / Rotary Kiln (for DRI)/ COREX or any other patented technology (Mention Nos. & installed capacity): ----------

(ii) Electric Arc Furnace / Electric Induction Furnace/ Basic Oxygen Furnace (Mention Nos. & installed capacity): ----------

(iii) Refining facilities for liquid steel (Mention Nos. & installed capacity):----------
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(iv) Billet Caster (Mention Nos. & caster size): ----------

(v) Re-heating furnace (if applicable): ----------

(vi) Rolling Mill (Mention installed capacity): ----------

(vii) Quenching/ cooling system: ----------

(viii) Any other production setup such as – Ferro alloys, Pig iron, Structural Steel etc. (Please mention process, involved machinery and installed capacity) – if any: ----------
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2.2 Testing Facilities:

2.2.1 Raw material testing facility

Chemical Composition Test of Iron ore, Coal, Sponge Iron, Bath Sample etc.

(a) Carbon & Sulphur apparatus with suitable chemicals for analyzing C, S & P elements

(b) Muffle Furnace

(c) Analytical / Digital Balance

(d) Other apparatus for the chemical / metallurgical test lab.

Or Through Spectrographic facility.

2.2.2 Finished material testing facility

i) Digital Universal testing Machine with extensometer facility.

(a) Capacity: - ----------

(b) Make: ----------

(c) In-house/ outsource calibration facility: ----------

(ii) Bend & Re-bend Test Facility: ----------

(iii) Spectrographic facility for chemical / metallurgical analysis

(iv) Any other relevant testing facility specified in IS: 1786 (Latest), IS: 13920 (Latest) & IS: 2830 (Latest): ----------

2.3 Source of raw material:

(a) Iron Ore lumps / fines : ----------

(b) Coal: ----------

(c) Limestone / Dolomite: ----------

(d) Method of transportation of raw material: _____

2.4 Availability of IS: codes: ----------

2.5 Availability of BIS Licenses with validity – TMT Bars grade & dia (IS: 1786) and Billets (IS: 2830).

EXPERIENCE

3. SECTION- III (Attach documents separately):

a) Latest (two years minimum) certificate of approval issued by Central Govt., State Govt., Central / State PSUs, if any.

b) Copy of Certificate of Incorporation & Memorandum of Article of Association of Firm.

c) Purchase / Supply orders completed/ in- hand to Central Govt., State Govt., Railways, Metro Railways, IRCON & other railway PSUs.

d) Purchase / Supply orders completed/ in- hand in Infrastructure & Road Bridge projects of minimum three years.

e) Recent test results of TMT Reinforcement Bars got done by third party from any reputed Govt. /PSU/ Govt. Colleges or NABL accredited laboratory.

f) Supply experience/ appreciation letters issued by purchasers / users within 3 years with supporting purchase orders.

g) Details of In-house testing facility for physical & chemical tests with their valid calibration certificates and their NABL accreditation.

h) Copy of production registers showing production of TMT reinforcement bars for various grades & dia. having approval of Bureau of Indian Standards (BIS).

i) Documents such as purchase / supply orders, test reports carried out at NABL accredited laboratory etc. which shows production of Low alloy steel / CRS (Corrosion Resistant Steel) TMT Reinforcement bars for sizes 8 mm to 40 mm dia.

j) ISO 14001 (Latest) : Environment Management System

k) OHSAS 18001 (Latest) : Health & Safety

l) Notarized declaration regarding **No-Use** of external scrap in steel making at firm's premises.

m) Notarized declaration regarding T&P / M&P installed at firm's premises for manufacturing of TMT Reinforcement Bars.

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