



**JINDAL PANTHER TMT REBARS**  
**A PRODUCT OF JINDAL STEEL & POWER LTD.**

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**CERTIFICATIONS  
& APPROVALS**

2018-19

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TRUSTED AND APPROVED BY REPUTED COMPANIES, CORPORATIONS AND AUTHORITIES



Army Welfare Housing Organization



Bharat Heavy Electricals Limited



Chennai Metro Rail Corporation Ltd. (CMRC)



Larsen & Toubro Limited



Municipal Corporation of Delhi



Hyderabad Metro Rail Corporation



South Eastern Railways



Punjab PWD



G R InfraProjects Limited



Konkan Railways



Bridge & Roof Company (India) Ltd.



Adani Infra (India) Limited



Tata Projects Limited



Tamilnadu PWD



Delhi PWD



Tamilnadu Housing Board



Ultratech Cement Limited



Simplex Infrastructures Limited



Sepco Electric Power Construction



McNally Bharat Engineering Co.Limited



DFCCIL



Patel Engineering Ltd.



VNR Infrastructures Limited



Power Grid Corporation of India Ltd. (PGCIL)



NCC Limited



National Thermal Power Corporation (NTPC)



Oriental Infrastructure



Dilip Buildcon Limited



Engineers India Ltd. (EIL)



Bangalore Metro Rail Corporation

TRUSTED AND APPROVED BY REPUTED COMPANIES, CORPORATIONS AND AUTHORITIES



Madhya Pradesh Power Generation Company Ltd.



Shapoorji Pallonji & Company Limited



Doosan Power Systems



Mecon Ltd.



National Highways Authority of India Ltd.(NHA)



Military Engineering Services (MES)



Kazstroyservice Infrastructure India Ltd.



Abg Shipyard Ltd.



Rail Vikas Nigam Ltd. (RVNL)



Madhucon Projects Limited



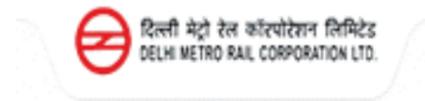
Indian Oil Corporation Ltd. (IOCL)



BSBK Engineers Pvt. Ltd.



SP Singla Constructions Pvt. Ltd.



Delhi Metro Rail Corporation Ltd. (DMRC)



National Aluminium Company Ltd. (NALCO)



U.P. State Bridge Corporation Ltd.



Jaipur Metro Rail Corporation



PNC INFRA TECH LIMITED



Directorate General of Married Accomodation Project (DGMAP)



City & Industrial Development Corporation of Maharashtra (CIDCO)



Paharpur Cooling Towers



Tamilnadu Power Generation and Distribution Company Limited



Ahluwalia Contracts (India) Ltd.



Sivanssh Infrastructure Development Pvt. Ltd.



Technip



KEC International Limited

# ANNEXURE-01

# WORLD-CLASS PRODUCTS UNRIVALED TECHNOLOGY



## ABOUT JINDAL STEEL AND POWER LIMITED

Jindal Steel and Power Limited (JSPL) is amongst India's leading & integrated steel producer with a significant presence in sectors like Mining, Power Generation and Infrastructure.

With an annual turnover of over US\$ 3.5 billion, JSPL is a part of the USD 22 Billion diversified O. P. Jindal Group and is consistently tapping new opportunities by increasing production capacities, diversifying investments and leveraging its core capabilities.

From the widest flat products to a range of cutting edge long products. JSPL has a product portfolio that caters to the varied segments of in the steel market place. The company also has the distinction of producing 121 metre long rails and large size parallel flange beams.

JSPL operates the largest coal-based sponge iron plant in the world and has an installed capacity of 3.6 MTPA of crude steel at Raigarh, Chhattisgarh. Also, JSPL has an integrated steel plant at Angul, Odisha with capacity of producing 6.0 MTPA\* crude steel with a plate mill capable of producing 5-meter wide plates, making it one of the widest to be ever produced in the country. The company aims for a fast-paced growth so as to contribute substantially to india's long term prosperity.

Alongside contributing to India's growth story, the company is driving an ambitious global expansion plan in its roadmap to emerge as continues to capitalise on opportunities in high growth markets, expanding its core areas. In Oman (Middle East), the company has set up a 1.5 MTPA gas-based Hot Briquetted Iron (HBI) plant, 2 MTPA Steel Melting Shop and 1.4 MTPA Rebar Mill.

## PLANT CAPACITIES

Annual Production capacities of different products with plants in India is as mentioned in the table below:

PRODUCT	LOCATION	ANNUAL CAPACITY (IN MTPA)
Plate	Angul	1.20
Plate	Raigarh	1.00
Roll and Universal Beam	Raigarh	0.75
Medium & Light Structure	Raigarh	0.70
Wire Rod	Patratu	0.60
Rebar	Patratu	1.00
Rebar	Angul	1.40

\*For JSPL Angul Plant the current consent to operate is 4.5 MTPA which can be augmented to 6.0 MTPA at a later stage.

## ANGUL INTEGRATED STEEL PLANT

JSPL's 6MTPA Integrated Steel plant at Angul is the biggest steel plant in Odisha with following production facilities in the complex:

- India's largest Blast Furnace volume of 4554 m<sup>3</sup>
- 5 MTPA Sinter plant
- India's largest 1.8 MTPA DRI plant producing steel on fully indigenous raw material
- 1.0 MTPA Coke Oven Plant
- World's largest Coal Gaification Plant (CGP) for Steel making producing syngas from domestic high ash thermal coal
- 6 MTPA Steel Melting Shop
- One of India's largest 250 MT BOF
- 1.2 MTPA Plate Mill producing plates upto 5 meter wide
- 810 MW Captive power Plant

## RAIGARH INTEGRATED STEEL PLANT

JSPL's 3.6 MTPA Integrated Steel plant at Raigarh, Chhattisgarh with following production facilities:

- Blast furnace are in 2 No with capacity of 0.42 MTPA & 1.25 MTPA
- 2.5 MTPA Sinter Plant
- 3.6 MTPA Steel Melting Shop
- 1.0 MTPA Plate Cum Coil Mill producing plates upto 3.5 meter wide and coils upto 3.0 meter wide



### STEEL

Strengthening the economy with our wide product canvas

## FACILITIES AND TECHNOLOGIES

### RAIGARH PLANT:



#### Iron & Steel Making Facilities includes:

893 MW captive power plant (CPP)

Fabricated structure 1, 20,000 TPA

#### IRON MAKING

- 0.8 MTPA coke oven plant
- 2.5 MTPA sinter plant
- 1.37 MTPA Sponge Iron manufacturing through DRI Plant operating on JSPL patented technology
- 1.67 MTPA and 0.47 MTPA Blast Furnace

#### STEEL MAKING

- 2.5 MTPA and 1.10 MTPA steel melting shop
- **2 vacuum degassing units**
- **RH degassing unit**
- Single strand slab caster
- 1 unit of 6 strand billet cum round caster
- 1 unit of 6 strand billet caster
- **2 units of 4 strand combi caster**

#### ROLLING MILLS

- Rail & universal beam mill (RUBM) (0.75 MTPA)
- Integrated Flash Butt Welding Plant
- Comprehensive quality control facilities including NDT
- Plate-cum-coil Mill (1.0 MTPA)
- 0.6 MTPA Medium & Light Structure mill



**ANGUL PLANT:**

- 1 MTPA coke oven plant
- 4 MTPA sinter plant
- 1.8 MTPA DRI Plant
- 3.2 MTPA Blast Furnace

**STEEL MAKING**

- 2.5 MTPA Basic Oxygen Furnace
- 2.5 MTPA Electric arc furnace (EAF)
- Vacuum degassing unit
- 1.7 MTPA slab caster
- 2.3 MTPA Billet Caster

**ROLLING MILLS**

- 1.4 MTPA Rebar Mill
- 1.2 MTPA Plate Mill  
(India's widest mill, upto 5m)
- Fabricated structure 60,000 TPA

**Power** : 810MW Captive Power Plant

**PATRATU PLANT:**

The plant facilities for the first phase at Patratu include:

- 1.0 MTPA TMT Rebar mill
- 0.6 MTPA wire rod mill
- Rebar Processing Unit (Cut & Bend Bars, Weld Mesh)

**OMAN PLANT:**

- 2 MTPA Steel Melting Shop
- 1.5 MTPA Hot Briquetted Iron (HBI)
- 1.4 MTPA Rebar Mill

## ABOUT JINDAL PANTHER™ TMT REBARS

Jindal Steel and Power Limited (JSPL) is one of the India's major steel producers with a significant presence in sectors like Mining, Power Generation and Infrastructure.

For the first time in history, Jindal Steel & Power Limited has forayed into retail with the launch of **Jindal Panther™** TMT Rebars. These rebars are technically advanced thermo-mechanically treated and are different from the rest owing to a combination of world's most advanced MORGAN MILL using SIEMENS HYQST technology.



Jindal Steel & power operates a 1.0 MTPA capacity TMT Rebar mill at Patratu, Jharkhand and a 1.4 MTPA TMT rebar mill at Angul, Odisha supplied by SIEMENS of USA and SMS MEER of Germany, respectively. These mills produce high strength rebars conforming to IS 1786:2008. Both the plants are capable of producing TMT Rebars of grade Fe500D, Fe500S, Fe550D, Fe 600 grades in normal, EQR and CRS quality and in size ranging from 6-50 mm. TMT production at Patratu uses the superior and clean steel billets produced at the company's Raigarh plant as well as at company's Angul plant. TMT produced at Angul plant consumes the billets manufactured at Angul itself. The billet production at Raigarh is through the BF+DRI- EAF- LRF- Concast route and in Angul through the BF+DRI- EAF/BOF- LRF- Concast route, with highly controlled steel chemistry & very low levels of Sulphur and Phosphorus (less than 0.035%). The Patratu Mill uses superior HYQST (High Yield Quenching & Self Tempering) TMT technology for production of TMT rebars. HYQST technology produces rebars with high strength, high ductility, high bendability and high weldability surpassing the requirements of TMT rebars as per IS 1786: 2008. **Jindal Panther™** TMT Rebars are thus able to withstand shock loading and cyclic loading conditions making them the choice of the designers for the designers of building in the high seismic areas.

**Product Features** (Some of the unique product features include):

**1. EXCELLENT BONDING WITH CEMENT: UNIFORM AND PARALLEL RIB PATTERN**

**Jindal Panther™** TMT Rebars have precise, uniform and parallel rib pattern engraved through computer controlled notch making machines, resulting in excellent bond strength with concrete. Parallel ribs on **Jindal Panther™** TMT Rebars are produced by a high-speed finishing block called NTM (No Twist Mill) which is an ultra heavy-duty block using Tungsten Carbide rings that impart close dimensional tolerance superior surface finish.

**2. SUPERIOR WELDABILITY:** Low levels of carbon ensure easier and faster welding without preheating. This means stronger and safer weld joints & reduction in wastage during welding at site.

**3. EARTHQUAKE RESISTANT PROPERTIES:** HIGH UTS/YS: **Jindal Panther™** TMT Rebars have been proven to have higher resistance to cyclic loading conditions and are recommended in the earthquake prone areas due to their superior seismic resistant properties. **Jindal Panther™** TMT Rebars meet international specifications for the UTS/YS ratio and more percentage elongation signify that the steel is capable to strain harder, in event of an earthquake.

**4. EXCELLENT BENDABILITY:** HYQST TECHNOLOGY: Due to the highly controlled process that ensures a microstructure with a soft (ferrite and pearlite) core, **Jindal Panther™** TMT Rebars have excellent bendability (in spite of their high strength) facilitating easy bending, making work easier and faster at the construction sites.

**5. CORROSION RESISTANT:** Steel in concrete is usually in a non-corroding, passive condition. However, when corrosive elements like chloride from the sea water, soil salinity or carbon, nitrogen oxide from atmospheric pollution enters concrete, they disrupt the passive layer protecting the steel, causing rust and leading to a loss of bond between the steel and the concrete. The parallel rib pattern in **Jindal Panther™** TMT Rebars created in the final finishing stand eliminates the chance of torsion residual stress. This coupled with low carbon content leads to superior corrosion resistant properties as compared to the ordinary rebars.

**6. GREATER RESISTANCE TO FIRE:** The quenching and the self-tempering treatment at a temperature of approximately 650°C results in a consistent and thick layer of tempered martensitic-rim on the outer surface of the rebar imparting higher capacity to retain strength at elevated temperatures.

## PANTHER PRODUCT RANGE (GRADE/SIZES)

### SIZE RANGE

Jindal Panther™ TMT Rebars are available in the following sizes as per: 1786-2008 for Concrete Reinforcement (in mm)

6	8	10	12	16	20	25	28	32	36	40	45*	50*
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The rebars are delivered in standard length of 12m bundles ensuring ease in transportation.

\*Available upon prior agreement before ordering.

### OUR STANDARDS ARE HIGH

BIS-1786: 2008 specifications Fe 500/ Fe 500D/ Fe 500S/ Fe 550 D/ 600 grade/CRS grades, where Fe 500S grade is highly suitable for seismic prone areas. JSPL Mill is accredited ISO9001/ ISO 14001/ OHSAS 18001/ TS-16949

## CHEMICAL & MECHANICAL PROPERTIES

REBAR GRADE	BIS FE 500D	Jindal Panther™ 500D Typical Values	BIS FE 500S	JSPL FE 500S	BIS FE 500D CRS (AS PER CLAUSE 4.2, NOTE-3)	Jindal Panther™ FE 500D CRS Typical Values	BIS FE 550D	Jindal Panther™ FE 550D Typical Values	BIS 600	Jindal Panther™ 600 Typical Values
% CARBON	0.25	0.20-0.25	0.25	0.25	0.15	0.11-0.15	0.25	0.22-0.25	0.3	0.25-0.28
% Silicon (max)		0.15-0.25				0.15-0.25		0.15-0.25		0.15-0.25
%Manganese (max)		0.90-1.00				0.80-1.00		0.95-1.05		0.75-0.80
%Sulphur (max)	0.040	0.030	0.040	0.040		0.030	0.040	0.030	0.040	0.030
%Phosphorous (max)	0.040	0.030	0.040	0.040	0.12	0.10	0.040	0.030	0.040	0.030
% Sulphur + Phosphorous (max)	0.075	0.055	0.075	0.075		0.125	0.075	0.055	0.075	0.055
%Carbon Equivalent, CE (max)	0.42	0.35-0.40	0.42	0.42		0.42	0.42	0.31-0.41	0.42	0.41
% Copper						0.35-0.40				
Yield Stress	500	525	500-625	500-625	500	525	550	575	600	610
% Elongation (minimum)	16	18	18	18	16	18	14.5	16	10	12
Tensile Strength (N/mm2)Min	565	600	625	625	565	600	600	645	645	675
UTS/YS Ratio	1.13	1.15	1.25	1.25	1.13	1.15	1.08	1.12	1.1	1.2



Compare and see how Jindal Panther™ TMT Rebar is superior to scrap based rebar production in India

JINDAL PANTHER™ (Iron Ore Based TMT)	YOU GET	VERSUS	OTHERS	YOU GET	OTHERS (Scrap Based TMT)
Surpasses minimum specified levels of Bureau of Indian Standards (BIS)	More value for money with upto 7% - 8% savings ✓			<b>SURPASSES STANDARDS</b>	Barely qualifies the minimum requirements of BIS
Uses virgin iron ore and deploys state-of-the-art steel making and refining processes	Highly clean & homogenous steel quality ✓			<b>IRON ORE</b>	Use scrap or ingots for steel melting without any secondary refining process
Steel is made using BF / DRI → EAF / BOF / NOF → LRF → Concast route	A highly controlled steel chemistry with very low levels of sulphur & phosphorus ✓			<b>BF / DRI → EAF / BOF / NOF → LRF → Concast Route</b>	Follow the melting process of secondary steel through induction furnace route leading to no control over chemistry
Rebars are manufactured using High Yield Quenching and Self Tempering (HYQST) Technology perfected by Siemens of USA / OST from SMS Meer of Germany	High strength and ductility due to fine grain multiphased composite structure ✓			<b>UNIFORM MICROSTRUCTURE</b>	Use outdated rolling process & technology
Provides precise and uniform parallel rib pattern engraved through computer controlled notch making machines	Excellent bond strength with concrete ✓			<b>UNIFORM RIB PATTERN</b>	Use conventional machines for engraving ribs
Meets UTS/Y'S (Ultimate Tensile Strength to Yield Strength) ratio and high percentage elongation	Superior earthquake resistant qualities due to high capability of absorbing energy ✓			<b>EARTHQUAKE RESISTANT</b>	Use old technology/leading to high variation in elongation
Has predefined and transparent pricing	Fixed and uniform rates evidenced through a well displayed price list at our dealers' shops ✓			<b>UNIFORM PRICES</b>	Costs are linked to raw material movement like scrap & ingot
Is a National Brand	World class quality ✓			<b>TRUSTWORTHY</b>	Are local/regional brands

# ANNEXURE-02

## CPWD WORKS MANUAL 2018



## CENTRAL PUBLIC WORKS DEPARTMENT

OFFICE MEMORANDUM  
DG/MAN / 366  
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAWAN, NEW DELHI

DATED: 14.03.2018

Sub: Modification of Para 27.2 special condition of steel of works manual - 2014.  
In continuation of earlier OM issued vide No. DG//CPWD Works Manual/356 dated 11.09.2017, the following modifications has been made in CPWD Works Manual with immediate effect.

Sl. No.	Existing Provision	Modified Provision
1.	<p><b>27.2 Special conditions for steel reinforcement bars</b></p> <p>(1) (a) The CPWD/Contractor shall procure IS marked TMTbars of various grades from the steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS:1786-2008 (Amendment-1 November 2012). The procured steel should have following qualities:-</p> <p>i. Excellent ductility, bend ability and elongation of finished product due to possible refining technology</p> <p>ii. Consumption of steel should be accurate as per design.</p> <p>iii. Steel should have no brittleness problem in finished product.</p> <p>iv. Steel should carry the quality of corrosion and earthquake.</p> <p>v. Quality steel with achievement of proper level of sulphur and Exo resistance phosphorus as per IS:1786-2008.</p> <p><b>(b) Selection Criteria of steel manufacturers</b></p> <p>The supply of reinforcement steel for all CPWD works should have following selection criteria of steel manufacturers:-</p> <p>Steel producers of any capacity using iron ore/ processed iron ore as the basic raw material adopting advanced refining technologies as given under</p> <p>i. DRI-EAF Direct Reduced iron-Electric arc furnace.</p>	<p><b>27.2 Special conditions for steel reinforcement bars</b></p> <p>The CPWD/Contractor shall procure IS marked TMTbars of various grades from</p> <p><b>(1) The Steel Manufacturers such as SAIL, TATA Steel Ltd., RINL, Jindal Steel &amp; Power Ltd. and JSW Steel Ltd. or their authorized dealers having valid BIS license for IS: 1786-2008 (Amendment-1 November 2012).</b></p> <p>(2) (a) The steel manufacturers of their authorized dealers (as per following selection criteria) having valid BIS license for IS:1786-2008 (Amendment-1 November 2012).</p> <p>The procured steel should have following qualities:-</p> <p>i. Excellent ductility, bend ability and elongation of finished product due to possible refining technology</p> <p>ii. Consumption of steel should be accurate as per design.</p> <p>iii. Steel should have no brittleness problem in finished product.</p> <p>iv. Steel should carry the quality of corrosion and earthquake.</p> <p>v. Quality steel with achievement of proper level of sulphur and Exo resistance phosphorus as per IS:1786-2008.</p> <p><b>(b) Selection Criteria of steel manufacturers</b></p> <p>The supply of reinforcement steel for all CPWD works should have following selection criteria of steel manufacturers:-</p> <p>Steel producers of any capacity using iron ore/ processed iron ore as the basic raw material adopting advanced refining technologies as given under</p> <p>i. DRI-EAF Direct Reduced iron-Electric arc furnace.</p>

## CPWD WORKS MANUAL 2018

Sl. No.	Existing Provision	Modified Provision
	<p>or</p> <p>ii. BF-BOF Blast furnace - Basic oxygen furnace</p> <p>or</p> <p>(iii) COREX-BOF COREX - Basic oxygen furnace</p> <p>or</p> <p>For production of liquid steel to finish product at single/multiple locations with NABL or any other similarly placed accrediting Government body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 conforming to IS:1786-2008 (Amendment-1 November 2012).</p> <p>The check list for incorporation of any quality steel producer is enclosed for technical assessment is given in Annexure-1.</p> <p>Chief Engineer CSQ (Civil) unit, Directorate of CPWD shall approve the steel manufacturers.</p> <p>(2) The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.</p> <p>(3) Samples shall also be taken and got tested by the Engineer-in- Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.</p> <p>(4) The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in- charge</p> <p>(5) The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.</p> <p>(6) For checking nominal mass, tensile strength, bend test, re-ben test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:</p>	<p>or</p> <p>ii. BF-BOF Blast furnace - Basic oxygen furnace</p> <p>or</p> <p>(iii) COREX-BOF COREX - Basic oxygen furnace</p> <p>or</p> <p>For production of liquid steel to finish product at single/multiple locations with NABL or any other similarly placed accrediting Government body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 conforming to IS:1786-2008 (Amendment-1 November 2012).</p> <p>The check list for incorporation of any quality steel producer is enclosed for technical assessment is given in Annexure-1.</p> <p>Chief Engineer CSQ (Civil) unit, Directorate of CPWD shall approve the steel manufacturers.</p> <p>(II) The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.</p> <p>(III) Samples shall also be taken and got tested by the Engineer-in- Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.</p> <p>(IV) The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in- charge</p> <p>(V) The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.</p> <p>(VI) For checking nominal mass, tensile strength, bend test, re-ben test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:</p>

## CPWD WORKS MANUAL 2018

Sl. No.	Existing Provision			Modified Provision		
	Size of bar	For consignment below 100 tonnes	For consignment above 100 tonnes	Size of bar	For consignment below 100 tonnes	For consignment above 100 tonnes
	Under 10 mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof	Under 10 mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
	10 mm to 16 mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof	10 mm to 16 mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
	Over 16 mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof	Over 16 mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof
(7)	The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor			(VII) The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor		
(8)	The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made			(VIII) The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made		
(9)	The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.			(IX) The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.		

Copy to:

- All Spl. DGs. ADGs. CPWD, E-in-C, PWD, Govt. of Delhi. They are requested to endorse a copy of these OM to all CEs, SEs & EEs.
- SE (TAS), CPWD w.r.t. approval received vide his file no. SE (TAS)/EE (TAD)/Steel/2017-18 (Part 3).
- EE (M), CPWD copy may be placed in file no. CSQ/CM/16 (1)/2018.

Executive Engineer (TAD)

SE (TAS), CSQ

SE (C&M), CSQ

## CPWD, UP



भारत सरकार  
केन्द्रीय लोक निर्माण विभाग  
कार्यालय- अपर महानिदेशक (उ०क्षे०-II)  
चतुर्थ तल, केन्द्रीय भवन, सेक्टर-एच, अलीगंज लखनऊ -226024  
टेलीफोन : 0522-2324544 फैक्स : 0522 - 4024172  
ई-मेल : adgnr2.lucknow.cpwd@gmail.com

Fax/Speed Post



सं. 3(13)/अ.म.नि.(उ.क्षे.-2)/ 974 दिनांक : अक्टूबर, 2013

कार्यालय ज्ञापन

11/10/13

In accordance with O. M No. DG/MAN/270, dated 01-05-2013 modifying the special conditions for steel contained at para 27.2 of CPWD Works Manual, **Jindal Steel & Power Ltd.** And JSW steel Ltd. or any other steel producer as may be approved by CPWD having an integrated steel plant with crude steel capacity of 2 MT per annum or above has been equated at par with SAIL or TISCO or RINL.

2. It is understood that in all the NITs being issued after the issue of above referred O.M., the conditions related to steel reinforcement are being incorporated as per the above said O.M.

3. It has been reported that a difficulty is being experienced in implementation of the above said O.M. in respect of existing contracts for which NITs were issued before the issue of the above O.M. Therefore, in consideration thereof and keeping in view of the following in order to :

- Make better availability of quality TMT bars for execution of works scattered under the jurisdiction of NR-II.
- Inculcate better competition in the market.

It is hereby directed that the TMT bars manufactured by **Jindal Steel and Power Ltd.** or any other producer, as may be approved by CPWD who are using iron ore as the basic raw material/ input & having crude steel capacity of 2.0 MT per annum, shall also be allowed in all existing contracts in CPWD under jurisdiction of NR-II at par with SAIL, TATA Steel Ltd. and RINL.

4. These instructions being issued for existing contracts in CPWD in terms of powers delegated to him at Sl. No. 29 of Appendix -1 of CPWD Works Manual 2012 applicable for all existing contracts under jurisdiction of NR-II in CPWD. However the respective field officers are to ensure that such substitution of TMT bar from manufacturer other than SAIL, TISCO or RINL shall remain within the overall ceiling of 15% of contract amount.

This issues with the approval of ADG (NR)-II.

प्रतिपालि: 1-4 सगेता मुलक निर्माण/मु० पी० एच०  
✓ S. M/S Jindal Steel & Power Ltd; Sai Square,  
3rd Floor, 45, Bhargava Estate, Civil Lines,  
KANPUR-208001

निर्माण निदेशक  
11/10/2013

# CPWD, KOLKATA, ER-1, ER-2



Government of India  
Central Public Works Department  
Office of the Additional Director General (ER-I)  
CPWD, Nizam Palace,  
234/4, A. J. C. Bose Road,  
Kolkata - 700020

No. 20(1)/2008-ADG-ER I/ 7346 — 7356

Dated: 13.01.2014

### OFFICE MEMORANDUM

**Subject:** Incorporation of changes made in office memorandum DG/MAN/270 in NIT of works

**Ref:** Issued by DG,CPWD on 01.05.2013

It has been brought to notice of this office that while incorporating special conditions of steel in NITs as per para 27.2 of CPWD works Manual 2012, only names of a few primary producers such as SAIL, RINL, TISCO etc are incorporated. The conditions of steel has been modified vide MAN/270 and amended as under:

"The contractor shall procure TMT bars of Fe4145/Fe415D/Fe500/Fe500D/Fe550/Fe550D grade (the grade to be procured is to be specified) from primary steel producers such as SAIL, Tata Steel Ltd, RINL, Jindal Steel and Power Ltd and JSW Steel Limited or any other producer as approved by CPWD who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 million tonnes per annum and above.

In case of ..... NIT approving authority"  
You are therefore directed to amend NIT conditions suitably in future works.

This issues with the approval of Additional Director General(ER-I).

13/1/14  
(S. L. Meena)  
Director (works cum TLQA)

#### Copy for information nad necessary action

- I. Copy to ADG(ER-II) for informations
- II. All Chief Engineer under ER-I & ER-II

13/1/14  
Director (Works cum TLQA)  
अ.अ.प. (ए.ई.)-1/Office of the ADG (ER)  
केन्द्रीय कोलकाता / CPWD, Kol-20

# PWD, PUNJAB

OFFICE: ADVISOR (TECH) TO HON'BLE CM, PUNJAB  
SCO 61-62, PHASE-2, SAS NAGAR

- Engineer-in-Chief / Local Govt, Punjab
- Chief Engineer (HQ), PWD B&R Patiala
- Chief Engineer -cum- Nodal Officer (Buildings) Punjab PWD B&R, Chandigarh
- Chief Engineer, (Coordination), DWSS, Patiala
- Chief Engineer, PWSSB, Chandigarh
- Chief Engineer, Canals, Irrigation Works Punjab
- Chief Engineer, Punjab Mandi Board
- Chief Engineer, PUDA/ GMADA/ GLADA/ ADA / BDA
- Chief Engineer / PPHC
- Superintending Engineer / Panchayati Raj Department
- Superintending Engineer/ PSIEC
- Superintending Engineer/ PHSC
- Superintending Engineer (Markfed / Housefed)

FS 3792  
27/5/14

Memo No ATPB/30 /GL

Dated 22 May 14

Subject: INCLUSION OF STEEL PRODUCED BY JINDAL STEEL AND POWER LTD IN THE APPROVED MAKE

1 It has been brought to the notice of this Office that the Govt of India (GOI), Ministry of Steel has clarified that the Classification of Steel Producers as Main, Major and other Producers is only for data collection of the Plants and is in no way linked to the engineering, technical or general quality requirements. In this connection, refer to Joint Secretary, GOI, Ministry of Steel DO No 4(8)/2010-DI dated 14 Jun 11 and Deputy Secretary to Govt of India, Ministry of Steel letter No 4(8)/2010-SD-I dated 23 Aug 12 (photocopies are enclosed).

2 Further, for all Major Engineering Projects, steel manufactured from Iron ore as basic raw material / input and by a Plant having crude steel capacity of 02 million tons per annum (in the same location) is only to be permitted. In this category, presently we have permitted steel produced by SAIL, TATA and RINL.

3 Jindal Steel and Power Ltd fulfill the above requirements and stands accordingly approved by the CPWD. In this connection, relevant Page of CPWD File No CSQ/CM/M/16/(1)/2013 dated 01 May 13-the same is also available on the CPWD website) Accordingly, Jindal Steel and Power Ltd is included in the list of this category i.e. SAIL, TATA and RINL.

4 The above is for your information and necessary action.

27-5-14  
82 2/14  
B.R.P.  
S.P. Kohli  
2014

Lt Gen (Retd) BS Dhaliwal  
Advisor (Tech)  
-2/-.....

## PWD, PUNJAB

### Copy to

**Financial Commissioner to Govt of Punjab**  
Department of Rural Development  
and Panchayat

**Principal Secretary to Govt of Punjab**  
Department of Local Bodies

**Principal Secretary to Govt of Punjab**  
Department of DWSS

**Principal Secretary to Govt of Punjab**  
Department of Irrigation

**Secretary to Govt of Punjab**  
Department of Public Works (B&R)

**Secretary to Govt of Punjab**  
Department of Housing  
and Urban Development

**Secretary to Govt of Punjab**  
Department of Health and Family Welfare

**Secretary, Punjab Mandi Board**

**Managing Director, PSIEC**

**Managing Director, Markfed**

**Managing Director, Housefed**

**Managing Director, PPHC**

- For information please

## PWD, HARYANA

[Extract from Haryana Government Gazette, dated the 23rd September, 2014]

**HARYANA GOVERNMENT**  
PUBLIC WORKS DEPARTMENT  
(BUILDING AND ROADS BRANCH), AMBALA CIRCLE, AMBALA CANTT.

### **CORRIGENDUM**

The 16th September, 2014

A&C Slip No. 12. - In the Haryana Government Public Works Department (Building and Roads) Ambala Circle, Gazette Notification No.SE/PWD (B&R)/(Ambala CZC/13, dated 10th November, 2011 published in Haryana Government Gazette, dated 22nd November, 2011 the following amendment is made:

### **Already Published**

<b>STOCK ISSUE RATES :</b>	
B) Steel (Fe-500, TMT Steel bars)	Rs. 45,500/ per MT plus 3% storage charges. Note: 1. The revised premia are based on Fe-500, TMT steel bars of the company's TISCO, SAIL, RINL or IISCO. 2. In case department supply the steel recovery will be made on above rates for Fe-500, TMT Steel bars. In case steel is to be arranged by the agency and agency is allowed to use Fe-500, TMT steel bars of companies other than above, but ISI marked, the deduction @ Rs6000/- per MT will be made.

### **Now Amended**

<b>STOCK ISSUE RATES :</b>	
B) Steel (Fe-500, TMT Steel bars)	Rs. 45,500/ per MT plus 3% storage charges. Note: The revised premia are based on Fe-500, TMT steel bars of the primary steel producers such as TATA Steel Ltd., SAIL, RINL, <b>Jindal Steel &amp; Power Ltd.</b> , (Jindal Panther) and JSW Steel Ltd. or any other primary producer as approved by the Direction Committee of Haryana who are using iron ore as the basic raw material / input and having crude steel capacity of 2.0 Million tons per annum and above.

ANAND KUMAR GARG  
Convener, Central Zonal Committee,  
Haryana PWD Schedule of Rates-cum-Superintending Engineer  
Ambala Circle, PWD (B&R Branch), Ambala Cantt.

22588-C.S-H.G.P\_Chd



GOVERNMENT OF ASSAM  
PUBLIC WORKS ROADS DEPARTMENT  
DISPUR, ASSAM.

### Certificate

As per test reports issued by Indian Institute of Technology, Guwahati, it appears that the "JINDAL PANTHER TMT bars Fe-500D" brand is suitable for use in various RCC and steel structural works.

Therefore it is to certify that the "JINDAL PANTHER TMT bars Fe-500D" manufactured by **Jindal Steel & Power Limited, Jindal Centre, Plot-2, Sector-32, Gurgaon, Haryana** is suitable for use in various RCC and steel structural works for Bridge and Road Projects under PWRD. Assam provided the requisite tests to ensure the quality is duly carried out before use.

Memo No. DA5R. 103 /2013/ 23

Dt. 04.12. 2014

  
Deputy Secretary to the Govt of Assam (Works)  
Public Works Roads Department, Dispur.

### APWD SOR Building (Civil Works)

291

Item no.	Description	Unit	Rate
<b>18.1</b>	<b>REINFORCEMENT</b>		
18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.(No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)		
	a) From Primary Producer: TATA/SAIL/Jindal steel/Shyam steel/RINL		
	(i) TMT Corrosion resistant steel (CRS) reinforcement bar	Qtl	Rs. 7,158.90
	(ii) Super Ductile (SD) TMT reinforcement bars	Qtl	Rs. 6,902.86
	b) Other ISI approved TMT reinforcement bar (SRMB/SAI/BISCON/X TECH) (For Assam Type Bldg., drain works,,retaining wall&boundary wall etc.	Qtl	Rs. 6,026.82
	c) ISI approved Mild steel reinforcement bar(M.S.Bar)	Qtl	Rs. 6,767.66
18.1.2	Extra over item 18.1.1(a,b,c) for each subsequent floor or part thereof above first floor level.	Qtl	Rs. 37.75
<b>18.2</b>	<b>BEAMS AND JOISTS</b>		

Ch-18, Steel and Iron Works

Government of Odisha  
Works Department

\*\*\*  
**Office Memorandum**

File No.0755960022014- 12845 W, Dated, 10.11.14

**Sub- Schedule of Rates-2014.**

Consequent upon rising of market price of materials and enhancement of labour rate from time to time issued by Labour & Employees and State Insurance Department, it was felt necessary to revise the existing Schedule of Rates. Further, it was also felt necessary to prepare the Schedule of Rate for 13 (thirteen) undivided Districts instead of 3 RDC Zones basing on geographical location. After careful consideration Government have been pleased to approve Schedule of Rates-2014 for 13 (thirteen) undivided Districts and Addendum to Chapter-XVII of Road Work of Schedule of Rates-2006 for 2014 as item-58 and Addendum to Chapter-XIII of Road Work of Analysis of Rates-2006 for 2014 as item-58.

1. The new Schedule of Rates-2014 and its supporting Analysis of Rates for 2014 are effective from the date of issue of this order and it will be available in web-site of State Government.
2. This has been concurred in by the Finance Department vide their U.O.R. No.160-WF-I Dt.05.06.2014.

Encl: As above

*[Signature]*  
10/11/14  
EIC - cum- Secretary to Government

Memo No. 12846 W, Dated, 10.11.14

Copy with copy of the Schedule of Rates-2014 forwarded to P. S. to Hon'ble Chief Minister, Odisha for information and necessary action.

*[Signature]*  
10/11/2014  
FA - cum- Addl. Secretary to Government

Memo No. 12847 W, Dated, 10.11.14

Copy with copy of the Schedule of Rates-2014 forwarded to OSD to Chief Secretary, Odisha/ P.S. to Development Commissioner- cum-Additional Chief Secretary, Odisha/ P.S.to Additional Chief Secretary, Finance for information and necessary action.

*[Signature]*  
10/11/2014  
FA - cum- Addl. Secretary to Government



GOVERNMENT OF ODISHA

**BASIC RATE OF MATERIALS FOR  
THIRTEEN UN-DIVIDED DISTRICTS,  
RATE OF LABOUR, CONVEYANCE AND  
HIRE CHARGES OF PLANTS AND  
MACHINERIES**

**FOR -2014**

**WORKS DEPARTMENT**

## PWD, ODISHA

## NOTES:

1) All Reinforcement Steel and structural steel shall be procured and used as per specifications mentioned in BIS's documents- IS:1786 and IS:2062 respectively. Independent tests shall be conducted, wherever required, to ensure that the materials procured conform to the specifications.

These steel shall be procured only from those firms, which are established, reliable, Indigenous & primary producers of steel, having Integrated Steel Plants (ISP), using iron ore as the basic raw material as per Ministry of Steel's guidelines.

No re-rolled steel shall be permitted in works. All other specifications and guidelines of MORTH shall be complied.

All reinforcement steel and structural steel shall be procured from primary producers of steel: - SAIL/RINL/TATA/JINDAL STEEL/SHYAM STEEL.

In case of exigency, other brands (primary producers) of steel may be used with proper justification and prior approval of competent authority satisfying the tests as required by BIS's code.

- 2) The Cement of the companies having their own manufacturing units in the State of Odisha is to be used in all works.
- 3) In case of bridge works expansion joints and bearings are to be procured from only specified manufacturing units approved by MORTH,
- 4) Hard stone is to be used in lieu of granite for slope protection work.

## I. Stone and Stone Products

- 1) The rates of materials in SR are basic rates excluding cost of conveyance, royalty but including cost of stacking and C.S.T./V.A.T.
- 2) Normally blasted stones should not be used for soling stone where hand broken stones are available.
- 3) The box heaps of 1.5mx 1.5mx 0.44m is to be measured as 1 Cu. M.

## II. Wood Work

- (a) The rate of wood work items are equivalent to the rates of Odisha Forest Corporation on the average. If any change to the rates are made by the Forest Corporation the revised rates shall be taken into consideration while arriving at the finished rates.
- (b) For wood works the supply rates as fixed by the Forest Corporation shall prevail over that stated in this schedule of rates.

## III. Items under Miscellaneous Head

The rates under the sub-head under the Miscellaneous items are enclosure of labour and cost of all materials and conveyance except where otherwise mentioned in the description of items.

## IV. Weight of Cement

14.30 quintals per one Cu. M.

## V. Materials under E.P.M. /D.G.S. &amp; D.'s Rate

1) In case of item of work or for supply of materials against which rates have been approved by Directorate of Export Promotion and Marketing the same shall be made applicable for adoption in this schedule of rates.

In case of items of work or for supply of materials, against which rates have been approved by the D.G.S & D. the same rate shall be made applicable for adoption in this schedule of rates provided that if the rates of same items of work or for supply of materials are also forced by E.P.M. the E.P.M. rates will prevail over D.G.S. & D.'s rates.

## VI. Rate of Cement, Steel and Bitumen will increase/decrease as mentioned below:

- 1) Steel: Rate as fixed by Steel Authority of India Limited (SAIL).
- 2) Cement: Average factory price of three manufacturers of cement inside the State.
- 3) Bitumen: Rate as fixed by Indian Oil Corporation Limited (IOCL) / Hindustan Petroleum Corporation Limited (HPCL)/Bharat Petroleum Corporation Limited (BPCL).

## VII. In Cement Concrete items of Analysis of Rate centering and shuttering shall be added extra wherever necessary depending upon the item of work.

*Feb 2015*

-13-

## RITES LIMITED



राइट्स लिमिटेड  
(भारत सरकार का प्रतिष्ठान)  
RITES LIMITED  
(Schedule 'A' Enterprise of Govt. of India)

NO. RITES/CO/CPC/

19<sup>th</sup> January, 2015

Shri Ashwani Kumar,  
VP Sales & Marketing,  
Jindal Steel & Power,  
Jindal Centre,  
Plot No.2, Sector 32,  
Gurgaon - 122001

Sub. : Approval for Steel Products of **Jindal Steel & Power** in RITES' Projects

Dear Sir,

1. This is with reference to your letter dated 26.09.2014 addressed to the Director Projects, RITES Ltd. on the captioned subject. In this connection, we are pleased to inform you that your following products are approved for use in projects undertaken by RITES Ltd. for a period of three years from the date of issue of this letter :
  - i. Structural Sections and Steel Plates
  - ii. Fabricated Sections (Pre-engineered Buildings)
  - iii. TMT Bars
2. This approval is valid up to 30<sup>th</sup> November, 2017 provided no complaints are received from users during this period.
3. The products shall be in conformity with BIS standards and you shall keep your BIS registration valid and any changes in the same shall be intimated to this office.
4. The approval has been granted on the basis of documents / information furnished by you. The approval may be cancelled if the information furnished is found to be untrue. In this connection, RITES Ltd. reserves the right to visit your manufacturing unit any time.
5. If a contractor working for RITES places purchase order for the material, **M/s Jindal Steel & Power Ltd.**, shall supply the same on priority adhering to time schedule required by RITES failing which RITES may cancel this approval.
6. This issues with the approval of the Director / Projects.

Yours faithfully,

*G.V.Chanana*

G.V.Chanana  
Advisor/Contract Policy

कॉर्पोरेट कार्यालय: राइट्स भवन, नं. 1, सेक्टर-29, गुरुगॉंव-122 001 (भारत). Corporate Office: RITES Bhawan, No.1, Sector-29, Gurgaon-122 001 (INDIA)  
पंजीकृत कार्यालय: स्कोप मीनार, लक्ष्मी नगर, दिल्ली-110 092 (भारत). Registered Office: SCOPE Minar, Laxmi Nagar, Delhi-110 092 (INDIA)  
दूरभाष (Tel.): (0124) 2571666, फैक्स (Fax): (0124) 2571660, ई-मेल (E-mail) info@rites.com वेबसाइट (website): www.rites.com

पत्राचार का पता: प्लॉट नंबर 144, सेक्टर 44, गुरुगॉंव 122 003 ( भारत ), Correspondence Address: Plot No. 144, Sector-44, Gurgaon 122 003 (India)

RITES Ltd. / Contract Policy Cell / Gurgaon

General Conditions of Contract for Works, December 2016

Correction Slip No. 1

The existing provision relating to Special Conditions for Steel in Annexure B-2 may be deleted and replaced with the following :

**Special Conditions for Steel**

1. The Contractor shall procure TMT bars of Fe415 /Fe500 /Fe550 grade (as specified) from any producer approved/empanelled by BIS / RDSO of Indian Railways. TMT bars shall meet the provisions of IS: 1786 : 2008 pertaining to Fe 415D or Fe 500D or Fe 550D grade of steel as specified in the tender.
2. The contractor shall have to obtain and furnish manufacturer's test certificates to the Engineer-in-Charge in respect of all supplies of steel brought by him to the site of work.
3. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes and/or the applicable specifications. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.
4. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
5. For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below :

Size of bar	For consignment below 100 tonnes	For consignment above 100 tonnes
Under 10mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10 mm to 16 mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16 mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

6. The contractor shall supply free of charge the steel required for testing including its

*[Signature]*  
19/4/2017

Contd... 2

transportation to testing laboratories. The cost of tests shall be borne by the Contractor/Employer In the manner indicated below for Non Mandatory Tests. In case of Mandatory Tests the cost will be borne only by the Contractor.

By the contractor, if the results show that the steel does not conform to relevant BIS codes.

By the Employer, if the results show that the steel conforms to relevant BIS codes.

7. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations necessary recovery shall be made. In case of excess consumption no adjustment need to be made.
8. The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-Charge.

No. RITES/CO/CPC/GCC 2016/

Dated the 19<sup>th</sup> April, 2017

The above correction to GCC for Works, December 2016 is issued with approval of the competent authority.

*[Signature]*  
(Alok Garg) 19/04/2017  
ED/HW&P and  
Head Contract Policy Cell

All Divisional Heads and SBU heads

Copy to:

1. Secy to CMD/DP/DF/DT. The above correction slip may be inserted in the copy of E-tendering - Tender and Contract Document for Works, for information of CMD and Directors

2. CVO

3. To.

4. *[Signature]* for uploading on Portal

**(c) - REINFORCEMENT STEEL****1.0 GENERAL**

High Strength Deformed Steel Bars and wires for concrete Reinforcement used in the works shall be TMT Fe-500/Fe-500D\* conforming to IS 1786 (latest revision) manufactured by Primary steel producers such as SAIL/TISCO/JINDAL/RINL/IISCO.

\* For seismic zone III, IV & V, only TMT Fe-500D steel shall be used.

All reinforcement work shall be executed in conformity with the drawings supplied and instructions given by the Engineer and shall generally be carried out in accordance with the relevant Indian Standards Specifications (IS: 2502)."

**2.0 INSPECTION & TESTING**

Every bar shall be inspected before assembling on the work and any defective, brittle, excessively rusted or burnt bars shall be removed. Cracked ends of bars shall be cut out.

- Physical Test IS:2062, IS:1786
- |      |  |
|------|--|
| (i)  | Upto 10mm Dia one sample per 25 MT or part thereof.  |
| (ii) | Above 10mm Dia one sample per 40 MT or part thereof. |

The various physical test shall be carried out as per IS: 226, IS: 1608, IS:1599, IS:1387.

**3.0 LAPPING & WELDING**

- (i) As far as possible, bars of the maximum length available shall be used. Laps shown on drawings or otherwise specified by the Engineer will be used. In case the contractor wishes to use shorter bars, laps shall be provided at the contractor's cost in the manner and at the locations approved by the Engineer. In any case laps provided will not be measured for payment purpose. The rate is inclusive of all such provision.
- (ii) As and when necessary, welded laps shall be provided as specified by the Engineer.

The initial setting time of test block made with the appropriate cement and the water proposed to be used shall not be less than 30 minutes and shall not differ by  $\pm 30$  minutes from the initial setting time of control test block prepared and tested in accordance with the requirements of IS:4031.

- iii) The pH value of water shall generally be not less than 6.
- iv) Water found satisfactory for mixing is also suitable for curing concrete. However, water used for curing should not produce any objectionable stain or unsightly deposit on the concrete surface. The presence of tannic acid or iron compounds is objectionable

**4.0 REINFORCEMENT STEEL**

High Strength Deformed Steel Bars and wires for concrete Reinforcement used in the works shall be TMT Fe-500/Fe-500D\* conforming to IS 1786 (latest revision) manufactured by Primary steel producers such as SAIL/TISCO/JINDAL/RINL/ IISCO.

\* For seismic zone III, IV & V, only TMT Fe-500D steel shall be used.

All reinforcement work shall be executed in conformity with the drawings supplied and instructions given by the Engineer and shall generally be carried out in accordance with the relevant Indian Standards Specifications (IS: 2502).

**5.0 CONCRETE ADMIXTURES****5.1 General**

The Engineer may permit the use of admixtures for imparting special characteristics to the concrete or mortar on satisfactory evidence that the use of such admixtures does not adversely affect the properties of concrete or mortar particularly with respect to strength, volume change durability and has no deleterious effect on reinforcement.

The admixtures, when permitted, shall conform to IS: 9103.

Calcium chloride or admixtures containing calcium chloride shall not be used in structural concrete containing reinforcement, prestressing tendon or other embedded metal.

The admixture containing Cl & SO<sub>3</sub> ions shall not be used.

Admixtures containing nitrates shall also not be used. Admixtures

Permissible deviation for driven rivets shall be as stipulated in Appendix-IV of IRS-B1-2001.

### 3.0 BRIEF DESIGN DATA

The through type triangulated steel girders are designed for Heavy Mineral Broad Gauge Loading as per Indian Railway Bridge Rules and Standard Specifications. All panel joints are designed for vertical and transverse forces including secondary moments.

The structure shall be fabricated to camber as per steel bridge code and as provided in the approved drawings. The deflection of the girder is expected not to exceed the values as given in the approved drawings.

All members of the girder and joints are to be either riveted or welded as shown in the approved structural drawings. No welding except where approved by the Engineer is to be carried out at site. All welding and riveting are to be carried out as per relevant IRS Specifications.

### 4.0 MATERIALS

#### 4.1 Steel

Steel grade conforming to IS:2062, is proposed to be used for all components for all spans.

The steel shall comply in all respects with the requirements of approved drawings and relevant codes and specifications and shall be procured from primary approved manufacturers only such as SAIL/TISCO/JINDAL/RINL/IISCO. However, only certain isolated sections of structural steel, not being rolled by primary approved manufacturers, can be procured from the authorized re-rollers of primary approved manufacturers or authorized licensee of BIS having traceability system and who use billets produced by primary approved manufacturers. Traceability shall be ensured by an officer specially authorized by the concerned CPM of the PIU on case to case basis for this purpose. (a/c no. 14) It may be noted that quality of steel used for fabrication shall be the essence of the contract & shall be rigidly followed. Steel sections to be supplied by the manufacturers shall be Ultrasonically tested as per codal provisions at the manufacturer's premises before dispatch. The Contractor on receipt of supply in his factory premises/fabrication workshop shall carryout random USFD testing as per standards laid down in various codes and verify them with the list received from manufacturers. Only tested steel shall be used for fabrication. All rolled sections shall bear cast mark and shall be of such length as to avoid butt welded joints in components of truss. Such rolled



## CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED

(CIN - U99999 MH 1970 SGC - 014574)

### REGD. OFFICE:

"NIRMAL", 2nd Floor, Nariman Point,  
Mumbai - 400 021.  
PHONE : 00-91-22-6650 0900  
FAX : 00-91-22-2202 2509

### HEAD OFFICE:

CIDCO Bhavan, CBD Belapur,  
Navi Mumbai - 400 614.  
PHONE: 00-91-22-6791 8100  
FAX : 00-91-22-6791 8166

Ref. No. CIDCO/ENGG/EE (PA&R)/2017/ 511

Date: 28.09.2017

To:

M/s Jindal Steel & Power Ltd.,  
3<sup>rd</sup> Floor, DCM Building,  
Plot No 94, Sector-32,  
Ghodbunder Village Road, Gurgaon, Haryana-122 001  
Tel.: 022-6624 1034, Mob:81087 73456

Sub-Registration as an Approved Vendor.

Ref: Your application vide file no P-814-2015, dated 16.01.2015

Dear Sir,

With reference to your request/application on subject matter, we are pleased to inform you that your registration as an approved vendor for our projects/works for the following products is approved herewith for a period of (02) two years.

S. No	Material Description	Material/Size/Range/Type/Specification
1	Structural Steel, Angles & Channels TMT FE- 500D	1. Rebars 6 to 40 mm 2. Cut & bend 6, 8, 10, 12 mm to 40 mm coil form 5-8-40 mm in straight form. 3. Structural steel for beams, columns, channel Angles, M.S & HT plates

Kindly note that,

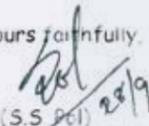
- a) The validity of this enlistment is valid for Two Years i.e. up to 27<sup>th</sup> September 2019. However, the Corporation reserves the right to cancel the same in case complaints are received from users within that period.

In case of any corruption related complaints, please visit :  
[cidco.maharashtra.gov.in](http://cidco.maharashtra.gov.in) / CIDCO VIGILANCE MODULE NEW / Userlogin.aspx

- b) The product shall be in conformity with requirements of BIS/ISO Standards. You shall keep your BIS/ISO registration valid and any changes in the same shall be intimated to this office.
- c) The approval has been granted on the basis of documents/information furnished by you. The approval would be cancelled if any details are found in variance to the details already furnished during the inspection of manufacturing unit. CIDCO Ltd. reserves the right to visit the manufacturing unit at any time.
- d) The registration shall not bind CIDCO Ltd. to give you any priority or preference in the issue of enquiry and placement of purchase orders and does not guarantee that all or any of the enquiries for the above items would necessarily be sent to you.
- e) You are also required to intimate us the changes, if any, in the postal address, the contact Phone Number, Fax Nos. in the constitutions or working of your firm during the currency of registration of your firm with us.
- f) You are required to apply 60 days in advance for revalidation before expiry of current validity of enlistment along with all documents and information as required.
- g) During the period of enlistment, if your company improves your product value by acquiring additional quality accreditation and/or achieves better financial performance then such changes shall be invariably informed to the Corporation.
- h) If a contractor working for CIDCO Ltd. works place purchase order for the material, the same will have to be supplied on priority, adhering time schedule required by CIDCO failing which CIDCO Ltd. may cancel the registration of product which may please be noted.

Thanking you,

Yours faithfully,

  
(S.S. Patel) 23/19

Executive Engineer (PA & R)  
3<sup>rd</sup> Floor, CIDCO Bhavan,  
CBD Belapur,  
Navi Mumbai - 400 614

Tele : 011 23019119  
Fax : 011 23019488

Sub Dte of Design, Room No 109  
Directorate General of Work  
Military Engineer Services  
Engineer-in-Chief's Branch  
Kashmir House, Rajaji Marg  
New Delhi - 110 011

No 83044/Steel/ 255/E2 Des-3

14 Dec 2018

E-in-C's List 'A' & 'B'

**APPROVAL OF TMT BARS MANUFACTURED BY  
M/S JINDAL STEEL AND POWER LTD, AT PLANT  
LOCATED AT ANGUL (ODISHA)**

1. M/s Jindal Steel and Power Ltd, has approached this HQ for approval of TMT bars manufactured by the firm at their TMT manufacturing unit located at SH-63, Chhendipada Road, PO-Nisha, Dist-Angul, Odisha-759111.

2. Approval for TMT bars of **Grade Fe 500, Fe 500D, Fe 550, Fe 550D and CRS with sizes 8mm to 40 mm** dia with brand name **"JINDAL PANTHER"** manufactured by **M/s Jindal Steel and Power Ltd, at plant located at Angul (Odisha)**, using Siemens' HYQST/TMT Rebar technology is hereby accorded at par with other TMT Steel producers approved by this HQ. The plant is provisionally approved for two years from the date of signing of this letter.

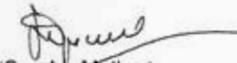
5. The requirements for the MES units shall be met on priority by the firm. The concerned MES representatives may visit manufacturer's plant to inspect their documents, process, products and quality control measures.

6. The approval does not absolve the executive/supervisory staff from their responsibility for using correct quality steel. Necessary checks as per this HQ letter No 83044/Steel/1777/E2 (Des-3) dated 10 Jul 2012 shall be carried out by Comd / Zonal CE.

7. Samples from each lot should be tested for quality as per IS 1786-2008 and the elongation shall not be less than 18%.

8. The address and Telephone Nos of the firm are given below:-

REGD OFFICE	PLANT
<b>M/S JINDAL STEEL AND POWER LTD</b> OP Jindal Road Hissar, Haryana, PIN-125005  Tel- +91-1662-222471/84 Fax- +91-1662-220476  Website- www.jindalsteelpower.com	<b>M/S JINDAL STEEL AND POWER LTD</b> SH-63, Chhendipada Road, PO-Nisha, Dist-Angul, Odisha-759111

  
(Sorabh Mathur)  
CE  
Jt DGW (Des)  
For E-in-C

(Contd...) PTO

Tele : 011 23019119  
Fax : 011 23019488

Sub Dte of Design, Room No 109  
Directorate General of Work (DGW)  
Military Engineer Services  
Engineer-in-Chief's Branch  
Kashmir House, Rajaji Marg  
New Delhi - 110 011

No 83044/Steel/ 41 /E2 Des-3

12 Feb 2018

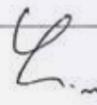
E-in-C's Br List 'A' & 'B'

**APPROVAL OF TMT BARS MANUFACTURED BY  
M/S JINDAL STEEL AND POWER LTD, HARYANA**

- Refer approval of TMT bars manufactured by **M/s Jindal Steel and Power Ltd, Haryana**, vide this HQ letter No. 83044/Steel/1740/E2 Des-3 dt 05 Mar 2012.
- M/s Jindal Steel and Power Ltd, Haryana**, vide their letter No JSPL/MES/APPROVAL/002 dt 05 Jun 2016, has approached this HQ for renewal of approval of **TMT bars of grade Fe 500, Fe 500D, Fe 550 and Fe 550D** manufactured at its plant located at **Balkurda, Patratu, Distt-Ramgarh, Jharkhand, Pin-829143**.
- The firm has reported supply of significant quantity of steel to MES contractors since approval in Mar 2012 and no distinctive adverse reports have been received on the steel supplied.
- Approval for TMT bars of grade **Fe 500, Fe 500D, Fe 550 and Fe 550D**, manufactured by **M/s Jindal Steel and Power Ltd, Haryana**, with brand name '**JINDAL PANTHER**', using SIEMENS's HYQST/TMT Rebar technology is hereby **renewed for a period of 05 years** from the date of signing of this letter.
- The requirements for the MES units shall be met on priority by the firm. The concerned MES representatives may visit manufacturer's plant to inspect their documents, process, products and quality control measures.
- The approval does not absolve the executive/supervisory staff from their responsibility for using correct quality steel. Necessary checks as per this HQ letter No 83044/Steel/1777/E2 (Des-3) dated 10 Jul 2012 shall be carried out by Comd / Zonal CE.
- Samples from each lot should be tested for quality as per IS 1786-2008 and the elongation shall not be less than 18%.
- The address and Telephone Nos of the firm are given below:-

REGD OFFICE	PLANT
<b>M/S JINDAL STEEL AND POWER LTD</b> OP Jindal Road Hissar, Haryana, PIN-125005 Tel- +91-1662-222471/84 Fax- +91-1662-220476 Website- www.jindalsteelpower.com	<b>M/S JINDAL STEEL AND POWER LTD</b> Balkurda, Patratu, Distt-Ramgarh, Jharkhand, Pin-829143 Tel- +91-6653-275724 Fax- +91-6553-275744



  
(Girish Joshi)  
Brig  
DDGW (Des)  
For E-in-C

(Contd...) PTO

Tele 23793509

Directorate General Married  
Accommodation Project  
E-in-C's Branch,  
Integrated HQ of MoD (Army)  
Kashmir House, Rajaji Marg,  
DHQ PO New Delhi - 110 011

21372/BOO/P&S/ 526 /MAP

16 Mar 2016

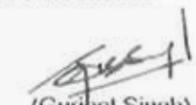
(All P'Ms)

**APPROVAL OF VENDORS FOR FUTURE PROJECTS OF  
MAP PHASE II AND PHASE III**

- M/s **Jindal Steel & Power Ltd** is approved as a vendor for future projects of MAP Phase-II and Phase-III for the following products:
  - TMT Steel Producer (Primary Producer)
- The address and contact details of the above Firm is:
 

M/s Jindal Steel & Power Ltd  
1<sup>st</sup> Floor, Jindal Centre  
Plot No.2, Sector-32  
Gurgaon- 122001, Haryana

Contact Executive : Shri Ashwani Kumar  
Mobile # 09560193319  
E-mail : ashwani.kumar@jindalsteel.com
- The approval does not absolve the executive/supervisory staff from their responsibility for using correct quality product. It is only after they are satisfied about the quality and the performance, the product will be used. Mandatory checks about the quality will be carried out as laid down and the records of the same maintained

  
(Gurjeet Singh)  
Lt Col  
SO 1 (P&S)  
for DG MAP

Copy to

M/s Jindal Steel & Power Ltd  
1<sup>st</sup> Floor, Jindal Centre  
Plot No.2, Sector-32  
Gurgaon- 122001, Haryana

for information please

Internal:

Team 'A' & Team 'B'

for necessary action please

## ARMY WELFARE HOUSING ORGANISATION

Tele : 23019306(Direct)  
23012619Ext. : 208  
Fax : 011-23010599

Army Welfare Housing Organisation  
South Hutments, Kashmir House  
Rajaji Marg, New Delhi – 110 011

B/03020/Cont/CA-07-12/Nasik/319 /AWHO

21 May 2013

**M/s Jindal Steels and Power Ltd** ✓

Jindal Centre, Gurgaon  
Plot -02, Sector-32  
Gurgaon- 122001

### APPROVAL FOR PROCUREMENT OF STEEL FOR AWHO PROJECTS

Dear Sir,

1. Reference your application for supply of TMT Reinforcement bars for AWHO Projects received vide letter No Nil dated 17 Aug 2012.
2. Your firm has been approved by the Managing Director for procurement of TMT bars of Grade Fe 415/Fe 415D/Fe 500/Fe 500D/Fe 550/Fe 550D for use in AWHO works manufactured by you at par with other primary producers viz SAIL, TATA Steel Ltd & RINL.
3. Please note that requirement for AWHO projects shall be met on priority.
4. Samples from each lot shall be tested for quality as per IS-1786-2008 and the elongation shall not be less than 18%.
5. Please ack.

Yours Faithfully,

  
(Inder Singh)  
Major  
Dir (Contracts)  
For Managing Director

#### Copy to :-

**M/s Jindal Steels and Power Ltd**  
OP Jindal Road,  
Hissar, Haryana – 125005

#### Internal

Dir (Plg)

Dir (Design)

Dir (Arch)

Dir (Resources)  
Dir cc-I )  
Dir cc-III )

## NATIONAL HIGHWAYS AUTHORITY OF INDIA



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

**National Highways Authority of India**

(Ministry of Road Transport & Highways)

G-5 & 6, SECTOR-10, DWARKA, NEW DELHI-110045

PHONE : 91-11-5074100/50;

Fax : 91-11-5093507/50;

Extn. : 2223/2318/2168

No. 11041/218/2007-Admn.

August 18, 2010

**POLICY MATTER: TECHNICAL (66 /2010 )**  
[Decision taken in TIC File No. NHAI/11018/43/2008/PQ]

NHAI is receiving reference to review the standards for steel to be used for NHAI projects on the pretext that some of the secondary producers are able to produce steel matching with the laid down standards as being produced by primary producers.

It is reiterated that the steel should be conforming to specifications laid down in Section 1009 of MOST Specification for Road and Bridge Works 4<sup>th</sup> Edition and in case of PPP projects provisions of Section 8.8 of IRC-SP: 84-2009 will also apply.

The extract of Section 8.8 of IRC-SP:84-2009 along with lis. of main and major producers of steel as per website of Ministry of Steel is enclosed as appendix for ready reference.

No deviation from the Existing Standards is permitted by NHAI, any case of deviation noticed in any contract will be reported to NHAI-HQ for examination.

This issues with the approval of Chairman.

  
(M Chandrashekhar)  
(GM (TIC))

To

PS to Chairman  
PS to All Members  
All CGMs/CVO  
All GMs/DGMs  
All PIUs/CMUs/SPVs

Copy to:  
Library / Hindi Officer

## NATIONAL HIGHWAYS AUTHORITY OF INDIA



Home Organisation Setup Contact Us Glossary(Iron & Steel) Sit

### Indian Iron & Steel Makers

#### I Steel Producers

##### A. Main Producers

- |  |   |
|--|---|
| 1 Steel Authority of India Ltd. (SAIL) | <a href="http://www.sail.co.in/">http://www.sail.co.in/</a>         |
| 2 Rashtriya Ispat Nigam Ltd.(RINL)     | <a href="http://www.vizagsteel.com/">http://www.vizagsteel.com/</a> |
| 3 TATA Steel Ltd.(TSL)                 | <a href="http://www.tatasteel.com">http://www.tatasteel.com</a>     |

##### B. Major Producers

- |                             |   |
|-----------------------------|---|
| 1 JSW Steel Ltd.            | <a href="http://www.jsw.in">http://www.jsw.in</a>                               |
| 2 ESSAR Steel Ltd.          | <a href="http://www.essar.com">http://www.essar.com</a>                         |
| 3 Ispat Industries Ltd.     | <a href="http://www.ispatind.com/">http://www.ispatind.com/</a>                 |
| 4 Jindal Steel & Power Ltd. | <a href="http://www.jindalsteelpower.com/">http://www.jindalsteelpower.com/</a> |

##### C. Other Producers (Mini Steel Plants)

- 1 EAF based Units : 33 working units
- 2 Induction Furnace based units : 970 working units
- 3 MBF-ETF based units : 2 units

#### II Sponge Iron Producers

##### A. Gas based Sponge Iron Units

- |                         |   |
|-------------------------|---|
| 1 ESSAR Steel Ltd.      | <a href="http://www.essar.com">http://www.essar.com</a>         |
| 2 Ispat Industries Ltd. | <a href="http://www.ispatind.com/">http://www.ispatind.com/</a> |
| 3 Vikram Ispat Ltd      |   |

##### B. Coal based Sponge Iron Units : 321 units

##### C. Sponge Iron India Limited

<http://spongeironindia.com/>

##### D. Orissa Mining Development Corporation

## NTPC LIMITED



**एन टी पी सी लिमिटेड**  
(भारत सरकार का उद्यम)  
**NTPC Limited**  
(A Govt. of India Enterprise)  
(Formerly National Thermal Power Corporation Ltd.)

केंद्रीय कार्यालय/Corporate Centre

REF : 01/CMM/CMGP/ENLISTMENT/2017

DATE: 19.01.2017

**M/S JINDAL STEEL & POWER LTD.**

PLOT NO.: 2, SECTOR-32, GURGAON,  
HARYANA-122001

Sub: Our Notice Inviting Tender for Enlistment of "Main Steel Producers" for supply of Steel Items issued vide Ref 01/CC&M/CMGP/STEEL/2016 dated 24.06.2016.

Kind Attn. : Sh. S.K. PRADHAN

Dear Sir,

This is to intimate you that **M/S JINDAL STEEL & POWER LTD.** has been enlisted as a Main Steel Producer for the supply of Steel for a period of 03 years from the date of this letter i.e. till 18.01.2020 unless notified otherwise during the said period.

Regards,

  
S. DATTA

DGM (Corporate Materials)



अभियांत्रिकी कार्यालय परिसर, प्लॉट नं. ए-८ ए, सेक्टर २४, पोस्ट बॉक्स नं. १३, नोएडा (उ.प्र.), पिन: २०१३०१  
ENGINEERING OFFICE COMPLEX, Plot No. A-8A, Sector-24, Post Box No. 13, NOIDA (U.P.), Pin: 201301  
सॉफ्टवेयर पदकन नंबर: एन.५०११ डी. एन. १५५५ डी. डी. आई. ००१५५५, वेबसाइट: www.ntpc.co.in  
Corporate Identification Number : L40101DL1975GO1007960, Website: www.ntpc.co.in  
टेलीफोन नं.: ०१२०-२४१०३३३ (१० लाईन), ०१२०-२४१०१६ (५ लाईन), फैक्स: ०१२०-२४१०३६, ०१२०-२४१०३७  
Telephone No.: 0120-2410333 (10 Lines), 0120-2410116 (5-Lines), Fax: 0120-2410136, 0120-2410137  
पंजीकृत कार्यालय : एन.टी.पी.सी. भवन, स्कोप कॉम्प्लेक्स, ७ इन्स्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली - ११०००३  
Regd. Office: NTPC Bhawan, SCOPE Complex, 7 Institutional Area, Lodhi Road, New Delhi-110003

## MADHYA PRADESH POWER GENERATING CO. LTD.

### SPEED POST & FAX

MADHYA PRADESH POWER GENERATING COMPANY LTD. JABALPUR.

No 03-01/STPS/2x250MW/44/ 7293 Jabalpur, dtd. 09 /12/2011

To,

M/s McNally Bharat Engineering Co. Ltd.,  
4, Mangoe Lane, 4<sup>th</sup> Floor,  
Kolkata – 700 001

A/C BOP – SATPURA  
ATTENTION – SHRI DEBRAJ ROY Dy.GM (PROJECT)  
FAX NO. 033-30142277 e-mail – debraj.roy @mbecl.co.in

Sub :- STPS, Sarni—(2x250)MW Extension units 10&11— BOP Package—  
Approval for additional main producers for supply of reinforcement and  
structural steel

Ref :- Your letter no.BOP-2/MPPGCL/0491/11-12 dtd. 09/12/2011 addressed  
to this office with copy endorsed to CE (PRG) MPPGCL, JBP .

Dear Sir

This has a reference to your letter cited above vide which it has been  
requested to approve M/s TISCO and **M/s JINDAL** as additional main producers for  
supply of reinforcement and structural steel for BOP civil works. In this connection  
please refer this office letter no No.03-01/STPS/2x250MW/44/3823 dtd 22/06/2011  
vide which these vendors were already approved for emergency procurement of  
reinforcement steel. As such for emergency procurement of steel each and every  
time approval of this office is not required. However as for as possible and normal  
procurement shall be done from M/s SAIL.

Not-with-standing the above, as requested M/s TISCO & **M/s JINDAL** are  
again approved for procurement of steel for emergent requirement as and when  
required.

Please note that any delay in execution of civil works on account of delay in  
procurement of steel shall be attributable to M/s MBEL only.

Thanking You.

Yours faithfully

Chief Engineer (Civil-Engineering)  
MPPGCL: Jabalpur.

No.03-01/STPS/2x250MW/44/ 7294

Jabalpur, dtd. 09 /12/2011

Copy to :-

- 1). The C.E (PRG) MPPGCL, Jabalpur.
- 2). The C.E.(Gen.) STPS, MPPGCL, Sarni.
- 3). The Addl. CE(constn) MPPGCL, Sarni
- 4). The S.E.(Civil) STPS, MPPGCL, Sarni.
- 5). The Construction Manager M/s McNally Bharat Engineering Co. Ltd.,  
STPS Site Sarni, Distt Betul (MP) through SE(civil) Sarni.

Superintending Engineer (Civil)

## MADHYA GUJARAT VIJ COMPANY LTD.



MADHYA GUJARAT VIJ COMPANY LTD.

S.P.Vidyut Bhavan, Race Course,Vadodara - 390 007.

Phone No.0265-2330350/2327481 Web Site : [www.mgvcl.com](http://www.mgvcl.com)

Fax No. 0265-2340692 E-mail [cetech.mgvcl@gebmail.com](mailto:cetech.mgvcl@gebmail.com)

Ref. No. MGVCL/SE (T)/Tech-4/ 1002040 Date : 08.07.2014

REGISTRATION NO.: M - 1511

### FAX NO.

To

**M/s. Jindal Steel & Power Ltd.,**  
Balkundra, Patratu  
Dist.Ramgarh,  
Jarkhand-829143.

**Sub:- Registration as a Vendor.**

Ref:- Y.O.L. 22.04.2014.

Dear Sir,

With reference to the above, it is to inform you that subsequent to the  
premises inspection carried out by **M/s. GLIS, A'bad.**, on dated **09.05.2014**  
at your factory located at **M/s. Jindal Steel & Power Ltd., 16, Balkundra,**  
**Patratu, Dist.Ramgarh, Jarkhand-829143.**, it is decided to enroll your firm as an  
approved Vendor for supply of;

- (1) M.S. Angle 50X50x6mm
- (2) M.S. Angle 65x65x6mm
- (3) Round Bar 16mm

The registration shall be applicable to all the companies of erstwhile Gujarat  
Electricity Board i.e.

- a) Gujarat Urja Vikas Nigam Limited (GUVNL),
- b) Gujarat State Electricity Corporation Limited (GSECL),
- c) Gujarat Energy Transmission Corporation Limited (GETCO),
- d) Madhya Gujarat Vij Company Limited (MGVCL),
- e) Uttar Gujarat Vij Company Limited (UGVCL),
- f) Dakshin Gujarat Vij Company Limited (DGVCL) and
- g) Paschim Gujarat Vij Company Limited. (PGVCL)

## MADHYA GUJARAT VIJ COMPANY LTD.

- The registration is subject to having valid license for documents related to manufacture / supply of material. Please note that it should be renewed **Two months** in advance before the expiry of valid documents submitted by you and will have to submit with the tender documents.
- The registration will not apply to any of your branches/offices.
- The registration on the approved list does not guarantee the award of contracts.
- If the performance will be found unsatisfactory by any of the company mentioned above, the rights are reserved to delete your name even before the expiry of the registration period.
- You should promptly advise all the companies for any change in your address of office, factory partnership deed or any Articles of Association of your concern, telephone number etc.
- The factory inspection will be conducted every two years.
- If you have not manufactured the above items, for which your firm is registered, all the companies reserve the right to reject your tender.
- The type test, whenever and wherever applicable, shall be carried out on the proto-type materials/products as per Companies' technical specifications at National Accredited board for laboratory (NABL) or accredited third party Laboratory approved by the international forum in case of foreign manufacturer/products. The proto-type materials/products shall fulfill all the technical requirement of Companies' like technical specifications, specified drawings, guaranteed technical parameters, manufacturing quality plan, etc

This registration is valid for the period of **5 years** from the date of issue of this letter. From now onward, you can participate in the tenders invited by all the companies mentioned above for supply of;

This registration is valid for the period of 5 years from the date of issue of this letter: From now onward, you can participate in the tenders invited by all the companies mentioned above for supply of;

(1) M.S. Angle 50x50x6mm

(2) M.S. Angle 65x65x6mm

(3) Round Bar 16mm.

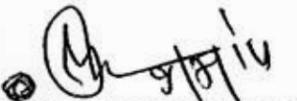
However, with this registration you will not be exempted from paying of EMD/SD and tender document fees etc. applicable as per tender conditions.

## MADHYA GUJARAT VIJ COMPANY LTD.

It is also desirable that the suppliers should possess ISO 9002 / 9001 Certification and as such we request you to initiate the actions to obtain above certification. The companies who possess ISO 9002 / 9001 Certification will be given preference.

Thanking you,

Yours faithfully,  
For and on behalf of  
Madhya Gujarat Vij Co. Ltd.

  
CHIEF ENGINEER (T & O)

**TAMILNADU GENERATION AND  
DISTRIBUTION CORPORATION LTD**

**SPECIFICATION  
FOR THE SUPPLY OF  
IRON AND STEEL MATERIALS.  
(HEAVY & LIGHT STRUCTURALS)**

**SPECIFICATION No. M.14/ 2011-12  
(DUE ON : 8.9.11)**

**OFFICE OF THE CHIEF ENGINEER,  
MATERIALS MANAGEMENT,  
4<sup>TH</sup> FLOOR,  
N.P.K.R.R MALIGAI,  
144, ANNA SALAI,  
Chennai-600 002.**

**SECTION-II  
BID QUALIFICATION REQUIREMENTS (BQR)**

**The bids shall become eligible only on satisfying the following Bid Qualification Requirements.**

The quotations received from the following tenderers will be considered.

I) Integrated Steel Plants.(M/s.SAIL, M/s.RINL, M/s.TATA STEEL, **M/s.JINDAL STEEL etc.**)/Rerollers who rolls down ingots/billets obtained from Integrated steel plants.

a) The annual production turn over shall be **1,000 MT** (One thousand ) and above during any one of the last three years (2008-2009 ,2009-10 and 2010-11) . Necessary documentary evidence viz. Profit/Loss statement or Auditors certificate in proof of the production turn over should be furnished along with the offer

b) The annual financial turn over shall be not less than **Rs.2 crores. (Two Crores)** during any one of the last three years (2008-2009 ,2009-10 and 2010-11). Necessary documentary evidence viz. Profit/Loss statement or Auditors certificate or the attested copy of Income Tax return filed by the bidder or the attested copy of sales tax clearance certificate or attested copy of enlistment certificate issued by NSIC containing turnover details of the bidder in proof of the financial turn over should be furnished along with the offer.

c). The company should furnish currently valid BIS registration certificate for Iron and Steel materials.

II. Authorized dealers for primary steel producers viz., (i) SAIL, (ii) RINL,(iii). TATA STEEL, (iv). **JINDAL STEEL Group** (v). ESSAR STEEL. Etc .

a)The above primary steel producers should have an annual production turn over of 1000 MT. (One thousand ) and above during any one of the last three years with an annual financial turn over of not less than Rs.2 Crores (Rupees Two Crores) during any one of the last three years .

Necessary documentary evidence viz. Profit/Loss statement or Auditors certificate or the attested copy of Income Tax return filed by the bidder or the attested copy of sales tax clearance certificate or attested copy of enlistment certificate issued by NSIC containing turnover details of the bidder in proof of the financial turn over and Profit/Loss statement or Auditors certificate in proof of the production turn over of the primary steel manufacturer should be furnished along with the offer.

## TAMIL NADU GENERATION & DISTRIBUTION CORP. LTD.

### NOTES:

1. Material as per contract conditions, specifications and approved (By DyCE/C) six months/ seasonal requirement shall be brought to site and kept under contractor's custody at his own cost and risk without any damage like setting of cement, rusting of steel etc. Secured advance for materials as per clause 8(iv) of Chapter X shall be made only for the approved six monthly/ seasonal requirement.
2. Material as per requirement shall be brought to site and kept under contractor's custody at his own cost and risk without any damage like rusting of steel etc.
3. Payment for the materials will be made through running and final bills as per actual consumption in the work and conditions of this contract and whatever the wastage that takes place i.e. cut pieces, empty cement bags, etc. will be the contractor's property and the same shall be removed from the site at his own cost.
4. The structural steel are to be procured from SAIL, TISCO or RINL and shall conform to latest/stipulated IRS/BIS specifications. If the structural steel of particular size/dimensions/specifications is not available with or not manufactured by above manufacturers, then on production of non-availability/non-manufacturing certificate or production of proper document to the satisfaction of concerned Chief Engineer/Con. Railway may consider and approve use of structural steel of any reputed make/-source/specification (equivalent). Approvals of use of alternate brand(s)/specification (equivalent) shall be given only for specific cases and for limited durations. Decisions of the Engineer to approve/disapprove use of alternate brand/make/specifications (equivalent) shall be final binding and conclusive.
5. Manufacturers test certificate conforming to latest IS specification should be produced by the contractor, duly authenticated by the gazette officer of the Engineering department.
6. The Railway reserved the right to take samples of material supplied by the contractor and to get the same tested in reputed laboratories at the cost of the contractor and the result thereof shall be binding on the contractor.
7. Contractor shall arrange Ultrasonic and other testings of structural steel in terms of relevant codes and contract conditions and specifications, within quoted rates.

Witness:

1. *[Signature]*  
2. *[Signature]*

Signature of tenderer  
 PERIOD: GAMMON INDIA LTD: 03/01/2009  
*[Signature]*  
 A. B. Bhatia  
 PRESIDENT (MKTG)  
*[Signature]*

## TAMIL NADU HOUSING BOARD



**TAMIL NADU HOUSING BOARD**  
 493, ANNA SALAI, NANDANAM, CHENNAI-600 035.  
 PHONE NO. 24352291

Letter No. QC/21979/2012

Date: 10.07.2012.

To  
 ✓ **The Jindal Steel and Power Limited,**  
 2D Century Plaza,  
 560-562 Anna Salai, Teynampet,  
 Chennai-600 018.

Kind attention Shri. Hemant Sharma.

Sir,

Sub: TNHB – Quality Control Wing – Product approval – inclusion in the list of approved products – **JSPL Fe500 D Steel bars from Jindal Steel and Power Limited** – Approved and Communicated - Regarding.

Ref: Request letter from **Jindal Steel and Power Limited** dated 8.6.2012.

\*\*\*\*\*

The Chief Engineer, Tamil Nadu Housing Board has examined various aspects of your product and accorded approval to your product **"JSPL Fe 500 D Steel bars from Jindal Steel and Power Limited"** for use in TNHB Projects and it has been included in the approved list in Tamil Nadu Housing Board.

The test results on produced at the time of approval should be adhered to as per IS 1786/2008.

*[Signature]*  
 ASSISTANT EXECUTIVE ENGINEER(DESIGN).

Copy to: 1) The SE/Chennai Circle/TNHB/Chennai-35.

2) The SE/Salem Circle/Salem-8.

3) The SE/Madurai Circle/Madurai.

4) The EE(T.Cell)/TNHB/Chennai-35.

Requested to include in the approved list & in tender schedule.

5) All the EE&Ad.Os of City & Mofussil Divisions.

## MECON LTD.



**मेकॉन लिमिटेड (भारत सरकार का संस्थान)**  
**MECON LIMITED (A GOVERNMENT OF INDIA ENTERPRISE)**

ISO 9001 Certified



प्रधान कार्यालय (Head Office) : राँची-2, झारखण्ड, भारत, Ranchi-2, Jharkhand, India, फोन/Phone : 0651-2483000, फैक्स/Fax : 0651-2482189/2482214  
ई-मेल/E-mail : ranchi@meconlimited.co.in, वेबसाइट/Website : http://www.meconlimited.co.in

Dated : August 21, 2012

**TO WHOMSOEVER IT MAY CONCERN**

**M/s Jindal Steel & Power Limited (JSPL)** is producing rolled steel long products at their Patratu Plant. **M/s JSPL** has set up 1.2 MT capacity Bar Mill and 0.6 MT capacity Wire Rod Mill.

**M/s JSPL, Patratu** has approached MECON for examining their rolling mill facilities and quality of products produced with a view for certification 'as approved quality product supplier' so that the products can be deemed suitable for supply in different industrial projects handled by MECON

Accordingly, a team of Engineers from MECON Limited, Ranchi visited Rolling Mills facilities of **JSPL, Patratu** on 26<sup>th</sup> July, 2012. The team assessed the subject facilities and reviewed the quality assurance procedures & laboratory facilities of **JSPL**. The facilities are modern and state-of-art.

The following samples of TMT Bars were offered to MECON for approval :

6.0 mm  $\phi$ , 8.0 mm  $\phi$ , 10.0 mm  $\phi$ , 12.0 mm  $\phi$ , 16.0 mm  $\phi$ , 20.0 mm  $\phi$ , 25.0 mm  $\phi$ , 28.0 mm  $\phi$  & 32.0 mm  $\phi$

The samples were drawn randomly. The products were tested for physical properties and chemical composition as per IS:1608-2005 and IS:228-1987 respectively.

The test results were reviewed.

The test results establish that the above TMT Bars conform to IS:1786:2008 for grade Fe-500 D and hence approved.

*S. Torika*  
(S. TORKA)  
GM (RM)

Shri S. Sharma, EVP (Plant Head), **JSPL, Patratu**

Major Offices:

नई दिल्ली/New Delhi +91-11-2204 1201(P) +91-11-2204 1214(F) delhi@meconlimited.co.in	मुंबई/Mumbai +91-22-2781 2155-58(P) +91-22-2781 2275(F) mumbai@meconlimited.co.in	कोलकाता/Kolkata +91-33-2282 2381-82(P) +91-33-2282 4441(F) kolkata@meconlimited.co.in	चेन्नई/Chennai +91-44-2626 1911(P) +91-44-2626 1474(F) chennai@meconlimited.co.in	बैंगलूर/Bangalore +91-80-2657 1661-63(P) +91-80-2657 6352(F) bangalore@meconlimited.co.in
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## NATIONAL MINERAL DEVELOPMENT CORPORATION LIMITED, NAGARNAR (MECON)



**मेकॉन लिमिटेड (भारत सरकार का संस्थान)**  
**MECON LIMITED (A GOVERNMENT OF INDIA ENTERPRISE)**

ISO 9001-2000 Certified



प्रधान कार्यालय (Head Office) : राँची-234002, झारखण्ड, भारत, Ranchi-834002, Jharkhand, India, फोन/Phone : +91-651-2483000, फैक्स/Fax : +91-651-2482189/2482214, ई-मेल/E-mail : ranchi@meconlimited.co.in, वेबसाइट/Website : http://www.meconlimited.co.in

Ref: GU/NISP/Q6X8/RMHS/Pkg-01/102/ 10823 Date: 27.03.2015  
CIN-U74140JH 1973 COI 001199

To  
Sri D. Rathore, Site in-charge & RM  
BHEL,  
NISP, Nagarnar  
Chattishgarh.

Sub: NMDC-3MTPA integrated steel plant – Approval of additional vendor **M/s JSPL** make against Reinforcement steel for RMHS Pkg.01  
Ref: NMDC's letter no. RMHS/NISP-MECON/14-15/SITE/1008 Dtd. 20.03.2015

Dear Sir,

This has reference to the above subject matter. It is to be noted that an additional vendor, **M/s JSPL** name has been approved by the competent authority of NISP for supply of reinforcement steel for all packages of the project and also for necessary inclusion in the preferred make list. This is for necessary perusal at your end.

Thanking you,

Yours faithfully,  
For MECON Limited

*MK*  
(Mukesh Kr. Khatri)  
DGM & Head RMHS

Copy: 1) The Principal Advisor, NISP  
2) The GM (Tech), NISP  
3) Shri L. Mahapatra, AGM (RMHS)  
NISP, Nagarnar.  
4) DGMI/c (Project NMDC), MECON, Ranchi

**BHEL**  
NMDC, Nagarnar Site  
RECEIVED  
No. 731  
Date: 28/03/15

Offices:

New Delhi +91-11-2204 1201(P) +91-11-2204 1214(F) delhi@meconlimited.co.in	Mumbai +91-22-2781 2155-58(P) +91-22-2781 2275(F) mumbai@meconlimited.co.in	Kolkata +91-33-2282 2381-82(P) +91-33-2282 4441(F) kolkata@meconlimited.co.in	Chennai +91-44-2626 1911(P) +91-44-2626 1474(F) chennai@meconlimited.co.in	Bangalore +91-80-2657 166 +91-80-2657 6352(F) bangalore@meconlimited.co.in
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## DELHI METRO RAIL CORPORATION LTD.



दूरभाष Tel. : 23417910/12  
फैक्स Fax : 23418413

**दिल्ली मेट्रो रेल कॉर्पोरेशन लि०**  
**DELHI METRO RAIL CORPORATION LTD.**  
(भारत सरकार एवं दिल्ली सरकार का संयुक्त उपक्रम)  
(A JOINT VENTURE OF GOVERNMENT OF INDIA AND GOVT. OF DELHI)

November 3, 2011

Mr. Kapil Rawat,  
Executive Vice President-Logistics,  
Jindal Steel & Power Limited,  
Jindal Centre, 12 Bhikaji Cama Place,  
New Delhi- 110066

Dear Sir,

With reference to your letter dated 31<sup>st</sup> October, 2011, we would like to reiterate here that JSPL is an approved vendor for supply of its products viz; "Structural Steel" & "TMT" for DMRC Phase-III projects. We are surprised to receive your letter again despite communicating this fact to your representatives who visited this office a few months back.

Yours faithfully,

(Rajan Kataria)  
Chief Engineer (Design)-I

(मेट्रो भवन, फायर ब्रिगेड लेन, बाराखम्बा रोड, नई दिल्ली-110001)  
Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110001

## KONKAN RAILWAY CORPORATION LTD.



**कोंकण रेल्वे कॉर्पोरेशन लिमिटेड**  
(भारत सरकार का उपक्रम)  
**KONKAN RAILWAY CORPORATION LTD.**  
(A Government Of India Undertaking)  
**PROJECT DIVISION**

No. KR/PD/JK/AEN - I/Chenab/36/Vol-18/2013

Date 01/08/2013

M/S CBPU,  
Chenab Bridge Site,  
Kauri, Reasi, J&K

(Kind attention: - Shri. K.M.Rao, VP/Project)

**Sub:** Design and construction of special Bridge across the river Chenab at km 50/800 on Katra-Laole Section of USBRL Project – **Approval of vender for Jindal Steel & Power.**

Ref: - 1) CA No.KR/PD/KJ&K/CONT/Spl. Br./Chenab dated 24.11.2004.

2) CBPU Letter No: 2612/DKK/4898 .dtd:20/04/2013

Dear Sir,

Vide as above reference the credentials for **M/s Jindal Steel & Power** has been approved by competent authority (vender approval of TMT bar).

This is for your kind information please.

AEN/Chenab

C/- SEN/Bridge

Katra – Dharam Section of USBRL Project, Reasi – Jyotipuram Road, Trintha (Geeta Colony),  
Post - Gran Morh Reasi - 182311, J&K .Telefax : 01991-245316 [www.konkanrailway.com](http://www.konkanrailway.com)

## SOUTH DELHI MUNICIPAL CORPORATION

SOUTH DELHI MUNICIPAL CORPORATION  
OFFICE OF THE EXECUTIVE ENGINEER (P)-I  
19<sup>th</sup> FLOOR, DR.S.P. MUKHERJI CIVIC CENTRE,  
JLN MARG, NEW DELHI-110002

### CIRCULAR

No: D/EE(P)-I/SDMC /2013-14/ 83

Dated:- 16.05.2013

The condition for procurement of cement and steel was last amended and circulated in erstwhile MCI by EE(P)-III vide Circular No. D/280/EE(P)-III/2011 dated 11.04.2011. Now CPWD vide its Office Memorandum No. DG/MAN/270 dated 01.05.2013 has amended the conditions of procurement of steel and cement. Accordingly, the procurement of steel and cement shall be governed by the following conditions: -

#### Conditions/Provisions for Procurement of Steel by the Contractor:

- The contractor shall procure TMT bars of Fe 415/ Fe 415D/Fe 500/Fe 500D/Fe 550/Fe 550D grade (the grade to be procured is to be specified) from primary steel producers such as SAIL, TATA STEEL Ltd., RINL, JINDAL Steel & power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 Million tonnes per annum and above.  
In case of non-availability of steel from primary producers the NIT approving authority may permit use of TMT reinforcement bars procured from steel producers having Integrated Steel Plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes in-house having crude steel capacity of 0.5 Million tonnes per annum and more.  
In case of non-availability of steel from Primary Producers as well as ISPs then the NIT approving authority may also permit use of TMT reinforcement bars procured from secondary producers. In such cases following conditions are to be stipulated in the NIT by NIT approving authority.
  - The grade of the steel such as Fe 415/Fe 415D/Fe 500/Fe 500D/Fe 550/Fe 550D or other grade to be procured is to be specified as per BIS 1785 2003.
  - The secondary producers must have valid BIS license to produce HSD bars conforming to IS 1786:2008. In addition to BIS license, the secondary producer must have valid license from either of the firms Tempcore, Thermex, Evcor.Turbo & Turbo Quench to produce TMT Bars.
  - The TMT bars procured from Primary Producers and ISPs shall conform to manufacturer's specifications.
  - The TMT bars procured from secondary producers shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.
  - TMT bars procured either from Primary Producers, ISPs or secondary Producers, the specifications shall meet the provisions of IS 1786:2008 pertaining to Fe 415/Fe 415D/Fe 500/Fe 500D/Fe 550/Fe 550D or other grade of steel as specified in the tender (while preparing NIT the grade of the steel to be specified)
- The contractor shall have to obtain and furnish test certificates to the Engineer-in-Charge in respect of all supplies of steel brought by him to the site of work.
- Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under Para (1)(d) & (1) (e) above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.
- The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-Charge.
- The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:
 

Size of Bar	For consignment below 100 tonnes	For consignment above 100 tonnes
Under 10 mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10 mm to 16 mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16 mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof
- The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.

## SOUTH DELHI MUNICIPAL CORPORATION

- so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
  - In case contractor is permitted to use TMT reinforcement bars procured from ISPs or secondary producers then
    - Reduction in the base price of TMT reinforcement bars shall also be indicated under schedule 'F', along with the base price.
    - The rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by Rs ..... per kg. (the rate of reduction shall be same as 10.1 above converted to per kg plus contractors profit and overheads as applicable (Currently 15%).
    - The rate under 10.1 & 10.2 shall be specified by NIT approving authority at the time of issue of NIT for steel from ISPs and secondary producers separately.

#### Conditions/Provisions for Procurement of Cement by the Contractor:

- The contractor shall procure 43 grade ordinary Portland cement conforming to IS 8112/Portland Pozzolana Cement conforming to IS:1489 (Part-I), as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by Engineer-in-Charge.  
  
The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially. The supply of cement shall be taken in 50 kg bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.
- The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-in-charge. The cement godown of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.
- Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorised representative and the keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.
- The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor/Department in the manner indicated below:
  - By the contractor, if the results show that the cement does not conform to relevant BIS codes.
  - By the Department, if the results show that the cement conforms to relevant BIS codes.
- The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- The cement brought to the site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-Charge.
- The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge or the Engineer-in-Charge shall get it removed at the cost of the contractor.

This issues with the prior approval of competent authority.

  
Ex. Engr. (P)-I

All Chief Engineers

## U.P. STATE BRIDGE CORPORATION LTD.



उ० प्र० राज्य सेतु निगम लिमिटेड  
U.P. STATE BRIDGE CORPORATION LIMITED  
Office Of The Managing Director,  
16, Madan Mohan Mahviya Marg,  
Lucknow.

पत्रांक: २५१३ / १२२० एमबीसी/१४-१५

दिनांक: १५-१२-२०१४

### कार्यालय-आदेश

निगम हित में मुख्यालय के कार्यालय आदेश सं० २०८९/१२२०एमबीसी/१४-१५ दि० ०५-११-२०१४ द्वारा ५ स्टील निर्माता कम्पनियों को निगम की विभिन्न निर्माण इकाईयों के अन्तर्गत निर्माणाधीन सेतुओं पर ८, १०, १२, १६, २०, २५, २८ एवं ३२ एम०एम० टी०एम०टी० स्टील की आपूर्ति, एक वर्ष अर्थात् दि० ०१-११-२०१४ से दि० ३१-१०-२०१५ तक करने हेतु सूचीबद्ध (Empanelled) किया गया था।

उक्त क्रम में **मै० जिन्दल स्टील एण्ड पावर लि०** द्वारा प्रस्तुत प्रस्ताव का परीक्षण कर समिति की संस्तुति के आधार पर सक्षम अधिकारी के अनुमोदनोपरान्त **मै० जिन्दल स्टील एण्ड पावर लि०** को भी उक्त सूची में सम्मिलित करते हुए निगम की विभिन्न निर्माण इकाईयों के अन्तर्गत निर्माणाधीन सेतुओं पर ८, १०, १२, १६, २०, २५, २८ एवं ३२ एम०एम० टी०एम०टी० स्टील की आपूर्ति माह १२/२०१४ से ३१/१०/२०१५ तक करने हेतु सूचीबद्ध (Empanelled) किया जाता है।

(संजय श्रीवास्तव)  
उप परियोजना प्रबन्धक (पी)

प्रतिलिपि निम्नलिखित को सूचनार्थ प्रेषित :-

- 1-संयुक्त प्रबन्ध निदेशक उ०प्र० राज्य सेतु निगम लि०, लखनऊ/कानपुर/गाजियाबाद/वाराणसी।
- 2-समस्त महस्र प्रबन्धक उ०प्र० राज्य सेतु निगम लि०, लखनऊ/ गाजियाबाद/वाराणसी/कानपुर/परिकल्पना।
- 3-समस्त मुख्य परियोजना प्रबन्धक उ०प्र० राज्य सेतु निगम लि०, इलाहाबाद/फैजाबाद/गोरखपुर/ मुरादाबाद/ झाँसी /कानपुर/परिकल्पना।
- 4-निजी सचिव -प्र०नि०, उ०प्र० राज्य सेतु निगम लि०, लखनऊ को प्रबन्ध निदेशक महोदय के संज्ञान में लाने हेतु।
- 5-उपरोक्त स्टील निर्माता कम्पनी **मै० जिन्दल स्टील एण्ड पावर लि०** को आवश्यक कार्यवाही हेतु।

(संजय श्रीवास्तव)  
उप परियोजना प्रबन्धक (पी)

Head. Off: Sector 16, M.M. Mahviya Marg, Lucknow-226001, Phone: 2205815, 2205807, 2207442, Fax: 0522-2209708  
E-mail: upbchd@rediffmail.com, upbchd@gmail.com Web Site: brjccorporationltd.com  
New Delhi: Phone: 011-25929019 G.M.: Ghazabad: Phone: 0120-2281409

## MUMBAI METRO RAIL CORPORATION



### Mumbai Metro Rail Corporation DOCUMENT SUBMISSION REPORT (DSR) - STATUS SHEET

Contract No:	MM3-CBS-UGC-01	DSR Code:	GCC-LTS-QAS-P01-161517-A
Contractor Name & Address:	Larsen & Toubro Ltd. - Shanghai Tunnel Engineering, Co. Ltd. TC 3 A Tower, Mount Poonamallee Road, Manapakkam, Chennai 600089 TN	Discipline:	Quality Assurance
Attention:	Mr. A. K. Dey	Assessor:	Pramesh Kammaran
Reference of Letter/Transmittal:	LT-STEC/MML3/UGC01/T/111-A1	Discipline Coordinator:	Roger Lai
Reception date of Letter/Transmittal:	30-01-2017	Prepared by Team Leader:	Michael Tang <i>ktj</i>

#### SUBJECT Credential of JSPL Ltd. (UGC-01)

##### List of documents submitted:

No.	Document Reference	Revision	Date	*Notification		
				A	B	C
1	LTS-MAT-P01-16-43 (Reinforcement Approval - <b>M/s JSPL</b> )	A2	27-01-2017			✓

##### \*Definition of Notification:

- A. Objection. A complete resubmission is required
- B. No Objection with comments
- C. Notice of No Objection

##### Area of Deficiency

All the Comments have been closed

##### Comment Items

No. of Total Comments	7
No. of New Comments	0
No. of Repeat Comments	-

##### Engineer

Printed Name: Jorgen Holst	Position: Dy. Project Manager - Civil	Date: 16-03-2017	Signature: <i>Jorgen Holst</i>
-------------------------------	--	---------------------	-----------------------------------

Encl: DSR Comment Sheets

CC: CPM - UGC01, MMRC  
File

- The comments are given to ensure the submission conforms to the Contract provisions
- The issue of NONO shall not in any way relieve the Contractor of his obligations under Contract, nor does it in any way imply any change to the Contract Price or Time for Completion



MINISTRY OF ROAD TRANSPORT & HIGHWAYS

SPECIFICATIONS FOR ROAD AND BRIDGE WORKS

(Fifth Revision)

Published by  
Indian Roads Congress  
NEW DELHI 2013

Materials For Structures

Section 1000

**1008 FINE AGGREGATES**

For masonry work, sand shall conform to the requirements of IS:2116.

Natural sand, crushed stone sand or crushed gravel sand or a suitable combination of natural sand, crushed stone or gravel, shall be used as fine aggregates in plain, reinforced and prestressed concrete works. The fine aggregates shall be dense, durable, clean and free from veins and adherent coating and other deleterious substances. They shall not contain dust, lumps, soft or flaky materials, mica or other deleterious materials in such quantities as to reduce the strength and durability of the concrete, or to attack the embedded steel. Mechanised sand washing machines should be used to remove impurities from sand. Fine aggregates having positive alkali-silica reaction shall not be used. All fine aggregates shall conform to IS:383 and tests for conformity shall be carried out as per IS:2386, (Parts I to VIII). The Contractor shall submit to the Engineer the entire information indicated in Appendix A of IS:383. The fineness modulus of fine aggregate shall neither be less than 2.0 nor greater than 3.5.

Fine aggregate for structural concrete shall conform to the following grading requirements:

Table 1000-2 : Grading Requirements of Fine Aggregates

IS Sieve Size	Percent Passing for		
	Grading Zone I	Grading Zone II	Grading Zone III
10 mm	100	100	100
4.75 mm	90-100	90-100	90-100
2.36 mm	60-95	75-100	85-100
1.18 mm	30-70	55-90	75-100
600 micron	15-34	35-59	60-79
300 micron	5-20	8-30	12-40
150 micron	0-10	0-10	0-10

**Note :** When the grading falls outside the limits of any particular grading zone of sieves other than 600-micron IS Sieve by a total amount not exceeding 5 percent, it shall be regarded as falling within that grading zone. However for crushed stone sand, the permissible limit on 150-micron IS Sieve is increased to 20 percent. Reference shall be made to Clause: 4.3 of IS:383.

**1009 STEEL**

**1009.1 Cast Steel**

The use of cast steel shall be limited to bearings and other similar parts. Steel for castings shall conform to Grade 280-520N of IS:1030. In case where subsequent welding is unavoidable

## Section 1000

## Materials For Structures

in the relevant cast steel components, the letter N at the end of the grade designation of the steel casting shall be replaced by letter W. To increase the corrosion resistance properties 0.3% to 0.5% copper may be added

**1009.2 Steel for Prestressing**

The prestressing steel shall conform to any one of the following standards:

- Plain hard drawn steel wire conforming to IS:1785 (Part I) and IS:1785 (Part II)
- Cold drawn indented wire conforming to IS:6003
- High tensile steel bar conforming to IS:2090
- Uncoated stress relieved strands conforming to IS:6006
- Uncoated stress relieved low relaxation seven ply Strand conforming to IS: 14268

Data in respect of modulus of elasticity, relaxation loss at 1000 hours, minimum ultimate tensile strength, stress strain curve etc. shall be obtained from the manufacturer. Pre-stressing steel shall be subjected to acceptance tests prior to actual use in the works.

**1009.3 Reinforcement/Untensioned Steel****1009.3.1 Reinforcing Bars**

For plain and reinforced cement concrete (PCC and RCC) or prestressed concrete (PSC) works, the reinforcement/untensioned steel as the case may be, shall consist of the following grades of reinforcing bars.

**Table 1000-3 : Grades of Reinforcing Bars**

Grade Designation	Bar Type Conforming to Governing Specifications	IS Characteristic Strength $f_y$ MPa	Elastic Modulus GP
Fe240	IS:432 Part I Mild Steel	240	200
Fe 415	IS:1786 High Strength Deformed Steel Bars (HSD)	415	200
Fe 500 or Fe 500D	IS:1786 High Strength Deformed Steel Bars (HSD)	500	200
Fe 550 or Fe 550D	IS:1786 High Strength Deformed Steel Bars (HSD)	550	200
Fe 600	IS:1786 High Strength Deformed Steel Bars (HSD)	600	200

**Note :** If any grade of steel in the above table is not available steel of next higher grade may be used.

All steel shall be procured from 'Original producers' who manufacture billets directly from iron ores and roll the billets to produce steel conforming to IS:1786. No re-rolled steel shall

## Materials For Structures

## Section 1000

be incorporated in the works. However, in case the original producers give certificate that they are unable to supply the steel within the required time period or that they are not producing bars of the required diameter, the Engineer may allow the procurement of steel from other suppliers, provided that the reinforcement is manufactured from billets procured from the original producers. In such cases, the manufacturer's certificate alone shall not be considered as sufficient and the steel shall be got tested by the Engineer in the NABL accredited laboratories only, as a third party check. It shall be ensured that all the test results conform to IS:1786 requirements.

Only new steel shall be delivered to the site. Every bar shall be inspected before assembling on the work and defective, brittle or burnt bars shall be discarded. Bars with cracked ends shall be discarded

For the steel procured from original producers also, the Engineer / Employer may carry out occasional checks on materials through third party as mentioned above, for confirming the test results shown in the certificates, in case of any doubt regarding the quality of steel supplied.

**1009.3.2 Coating of Reinforcing Bars****1009.3.2.1 Fusion Bonded Epoxy Coated Reinforcement**

Fusion bonded epoxy coated reinforcement shall conform to IS:13620 or other international standards as approved by Engineer. The location of the source of supply of the coated bars shall be such as to ensure that the bars are not transported for a distance of more than 300 Km.

Additional requirements for the use of such reinforcement bars are given below:

- Patch up materials shall be procured in sealed containers with certificates from the agency who has supplied the fusion bonded epoxy bars.
- PVC coated G.I. binding wires of 18G shall only be used in conjunction with fusion bonded epoxy bars.
- Chairs for supporting the reinforcement shall also be of fusion bonded epoxy coated bars.
- The cut ends and damaged portions shall be touched up with repair patch up material.
- The bars shall be cut by saw-cutting and not by flame cutting.
- While bending the bars, the pins of work benches shall be provided with PVC or plastic sleeves.

## IIT GUWAHATI PROJECT

ENGINEERING PROJECTS (INDIA) LTD  
(A Government of India Enterprise)  
North Eastern Regional Office

### SHORT NOTICE INVITING TENDER

NIT No. : NERO/MMD/IITG/156

Date: 28.04.2015

Tender for Supply of Reinforcement Steel (Fe-500 D) for the project "Extension of Academic Complex Phase - V at IITG campus, Guwahati".

Engineering Projects (India) Ltd. invites sealed tender for Supply of reinforcement steel / TMT Bar of Fe 500D Grade conforming to IS-1786 for the project "Extension of Academic Complex Phase - V at IITG campus, Guwahati for items as mentioned in Price Bid and Instruction to tenderer (ITT) enclosed and as per detailed technical specification.

The offer should be valid for a minimum period of **2 (two) months** from the last date of submission of bid. In case the last date of submission of bid is extended the same shall be considered.

**Delivery period:** Spread over two months.

The interested tenderers can download all the documents from EPI website [www.engineeringprojects.com](http://www.engineeringprojects.com) or [www.epi.gov.in](http://www.epi.gov.in) with all corrigendum/ Addendum uploaded till the last date of issue of tender. All the downloaded documents shall form part of the "Tender Documents".

The complete tender document comprising of the following is to be duly signed & stamped on each page and enclosed along with the price bid.

- |  |   |         |
|--|---|---------|
| 1. Short Notice Inviting Tender  | - | 2 Pages |
| 2. Instruction to Tenderer (Suppliers)   | - | 2 Pages |
| 3. Addendum to 'Instruction to Tenderer (Suppliers)'   | - | 1 Page  |
| 4. General Purchase Condition (GPC)  | - | 7 Pages |
| 6. Check List for Evaluation & Selection of Suppliers / Vendors (Not applicable for the tenders submitted by manufactures of approved brand or an a bidder duly authorized by them | - | 2 Pages |
| 7. Special Conditions of Contract (SCC)  | - | 3 Pages |
| 8. Technical Specification   | - | 1 Page  |
| 9. Price Bid   | - | 1 Pages |

Signature of the Bidder with Seal

EPI

## IIT GUWAHATI PROJECT

### TECHNICAL SPECIFICATION

NIT No. : NERO/MMD/IITG/156

Date:28.04.2015

1. Reinforcement steel TMT bars shall be of Fe- 500D grade as per IS: 1786 of make SAIL / TATA / **JINDAL PANTHAR** ONLY.
2. Reinforcement steel shall be supplied in bent form and shall be fresh from supplier's unit and in damage free and rust free condition.
3. Manufacturer's test certificate shall be issued and produced for each lot/size duly correlated with the consignment.
4. 8 mm dia and 10 mm dia steel can be supplied in coils also.

Signature of the Bidder with Seal

EPI

## IIT GUWAHATI PROJECT

ENGINEERING PROJECTS (INDIA) LTD  
(A Govt. of India Enterprise)

NIT No.: NERO/MMD/IITG/156

Date: 28.04.2015

Tender for Supply of Reinforcement Steel (Fe-500 D) for the project "Extension of Academic Complex Phase - V at IITG Campus, Guwahati

Sl. No	Description	Qty.	Unit	Rate / MT 'C' form to be issued by EPI		Amount	
				In Figure	In Words	In Figure	In Words
1.	Supply of Reinforcement steel / TMT Bars of Grade Fe 500D or superior grade as per specification IS 1786:2008 to project site mentioned above						
	8 mm dia	54.00	MT				
	10 mm dia	12.5	MT				
	16 mm dia	189.00	MT				
	Total quoted price						
	OPTIONAL						
	Unloading of materials at site	255.00	MT				

## NOTES:

- The rates quoted by the bidder shall be inclusive of all taxes, freight, packing & forwarding, excise duties, unloading at site and other charges as applicable on FOR site delivery basis. However, bidder must indicate the bifurcation of the various cost elements of their quoted price in a separate statement along with the price bid i.e. Basic price + taxes & duties + Freight + loading & transportation up to site (Break up required) against 'C' form to be issued by EPI.
- The approved makes of the reinforcement/TMT bars mentioned above are SAIL / TATA/Jindal panthar

Signature of Bidder with seal

EPI

## IIT GUWAHATI PROJECT

3. Material test certificate (of the manufacturer) duly correlated with the consignment number shall be furnished for each consignment. However, EPI shall be at liberty, as part of its contractual obligations with the client, to get each batch of reinforcement/TMT bars supplied by the supplier tested by another independent laboratory. In case, the results of such tests do not meet the acceptance criteria as set out in the relevant BIS code, the batch will be rejected and the supplier shall remain bound to replace such rejected bars with fresh batch of matching quantity to the site within the time as intimated to him at his cost. Should the supplier fail to do so EPI shall be at liberty to procure the said stock at the risk and cost of the supplier.

4. Quantity variations: Subject to satisfactory performance by the successful bidder, EPI may enhance the quantities mentioned above upto 10% without any change in the rates, terms and conditions.

Signature of Bidder with seal

EPI

1



**DELHI DEVELOPMENT AUTHORITY  
(DWARKA ZONE)**

**NIT No.:-** 43/EE/SWD-9/2014-15

**Name of Work:-** Construction of 821 Multi Storeyed Houses (600 Two Bedroom & 221 EWS Houses) in Pocket-E at Loknayak Puram (Bakkarwala)

**Estimated Cost:-** Rs. 193.85crores

**Earnest Money:-** Rs. 203.85Lacs

**Cost of tender document:** Rs.21,000/- (including 5% DVAT)

**Time Allowed:-** 42 (forty two) Months

**Certified that this NIT contains Pages 1 to 342 (one to three hundred forty two)**

**The NIT amounting to Rs. 193.85 crores (RupeesOne hundred ninetythree croresand eighty five lacs only) is hereby approved.**

**AE(P)                  EE(P)-I                  SE(P)-II                  Chief Engineer (DWK)**

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- 1.4** The cement shall be got tested by the Engineer-in-charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor.
- 1.5** The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to made. For non scheduled items, the decision of Superintending Engineer regarding theretical quantity of cement which should have been actually used, shall be binding on the contractor.
- 1.6** The cement brought to the site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-charge.
- 1.7** The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor. Chief Engineer may change the brand of Cement depending upon availability in local market, if needed. Instructions in this respect can be issued by him at regular intervals. The name of manufacturers should be finalized after taking into consideration the suggestions of contractors during pre bid meeting, if any.
- 2.0. Conditions of Steel :**
- 2.1** The contractor shall procure TMT bars of Fe415/ Fe500/ Fe550 grade (the grade to be procured is to be specified) from primary producers such as SAIL, Tata Steel Ltd., RINL, **Jindal Steel & Power Ltd.** & JSW Steel Ltd. or any other producer as approved by DDA,who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 million tones per annum and above.

A.....  
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In case of non-availability of steel from primary producers the NIT approving authority may permit use of TMT reinforcement bars procured from steel producers having integrated steel plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes in houses having crude steel capacity of 0.5 million tonne per annum and more. A separate list of producers for this category shall be approved by the DDA.

In case of non-availability of steel from primary producers as well as ISPs then the NIT approving authority may also permit use of TMT reinforcement bars procured from the secondary producers with the following conditions.

- a) The grade of the steel such as Fe415/Fe500/Fe 550 or other grade to be procured is to be specified as per BIS 1786-2008.
  - b) The secondary producers must have valid BIS licence to produce HSD bars conforming to IS1786 : 2008. In addition to BIS licence, the secondary producer must have valid licence from either of the firms Temp-core, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.
  - c) The TMT bars procured from primary producers and ISPS shall conform to manufacturer's specifications
  - d) The TMT bars procured from secondary producers shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be.
  - e) TMT bars procured either from primary producers, ISPs or secondary producers, the specifications shall meet the provisions of IS 1786 : 2008 pertaining to Fe415, Fe415D, or Fe 500, Fe 500D or Fe 550, Fe 550D or other grade of steel as specified in the tender (while preparing NIT the grade of the steel to be specified) .
- 2.2 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 2.3 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate

A.....  
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OW.....  
D.....

**GOVERNMENT OF TRIPURA**  
**PUBLIC WORKS DEPARTMENT**

**Name of Work:** Construction of a **multistoried (G+4) Building in the High Court premises at Agartala**, West Tripura / SH: Building portion including internal water supply, sanitary installation, Retaining wall, Boundary wall & Internal Electrification work (Concealed Conduiting only).

Sl No.	SECTION	PARTICULARS	PAGE No.
1.	Section - I	List of Dates, Press Notice, NIT	3 - 10
2.	Section - II	Instruction to Bidders	11 - 21
3.	Section - III	Forms of Bids and Qualification information	22 - 28
4.	Section - IV	Condition of Contract	29 - 61
5.	Section - V	Technical Specification	62 - 64
6.	Section - VI	Drawings	65 - 66
7.	Section - VII	Forms of Security	67 - 69
8.	Section - VIII	Bill of Quantity	70 - 91

1. Certified that this DNIT contains **91 (ninety- one) pages** numbered from 1 to 91.
2. Header of every page is bearing the text "Standard Single Bid Document for PWD, Tripura".

Assistant Engineer  
Project Circle, PWD(Buildings)  
Agartala, West Tripura.

Executive Engineer  
Project Circle, PWD(Buildings)  
Agartala, West Tripura.

Superintending Engineer  
Project Circle, PWD(Buildings)  
Agartala, West Tripura.

**DRAFT NIT No: CE(Buildings)/PWD/DNIT/SE/Project/100/2016-17.**

Draft Notice Inviting e-Tender for an amount of ₹8,62,05,600.00 (Rupees eight crore sixty two lakh five thousand six hundred) only is hereby **APPROVED.**

Chief Engineer (Buildings)  
Public Works Department, Tripura.

BIDDER/CONTRACTOR

EXECUTIVE ENGINEER

96.2 The Bidder should produce a valid Sales Tax Clearance Certificate before the payment of the final bill, otherwise payment to the Bidder will be withheld.

**97 Supply of construction materials:**

- i) The Bidder has to make his own arrangements for procurements, supply and use of construction materials except as mentioned in clause 98d below.
- ii) All materials so procured should confirm to the relevant specifications indicated in the bidding documents.
- iii) The Bidder shall follow all regulations of the Department/Government of India in respect of import licenses etc., of the procurement of the materials and he shall be responsible for the payment of applicable duties and taxes, port clearances, inland transportation etc.
- iv) The Bidder shall make his own arrangements for adequate storage of the materials.

**98 Stores Supplied By Government**

a. If the specifications or schedule of items provides for the use of any special of materials to be supplied from Engineer-In-Charge 's stores or if it is required that the Bidder shall use certain stores to be provided by the Engineer-In-Charge as shown in the schedule of materials hereto annexed the Bidder shall be bound to procure and shall be supplied such materials and stores as are from time to time required to be used by him for the purposes of the contract only and the value of the full quantity of materials and stores so supplied at the rates specified in the said schedule of materials may be set off or deducted from any sums then due or thereafter to become due to the Bidder under the contract or otherwise or against or from the security deposit or the proceeds of sale thereof if the same is held in Government securities the same or a sufficient portion thereof being in this case sold for the purpose. All materials so supplied to the Bidder shall remain the absolute property of Government, shall not be removed on any account from the site of the work and shall be at all times open to inspection by the Engineer-In-Charge. Any such materials remaining unused and, in perfectly good condition at the time of the completion or determination of the contract shall be returned to the Engineer-In-Charge at a place directed by him if by a notice in writing under his hand he shall so require; but the Bidder shall not be entitled to return any such materials unless with such consent and shall have no claim for compensation on account of any such materials so supplied to him as aforesaid not being used by him or for any wastage in or damage to any such materials. Provided that the Bidder shall in no case be entitled to any compensation or damages on an account of any delay in supply or non-supply thereof all or any such materials and stores. Provided further that the Bidder shall be bound to execute the entire work if the materials are supplied by the Government within the scheduled time for completion of the work plus 50 per cent thereof (scheduled time plus 6(six) months if the time of completion of the work exceeds 12(twelve) months but if a part only of the materials has been supplied within the aforesaid period then the Bidder shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the completion of the rest of the work the Bidder shall be entitled to such extension of time as may be determined by the Engineer-In-Charge whose decision in this regard shall be final.

b. The Bidder on signing an indenture in the form to be specified by the Engineer-In-Charge shall be entitled to be paid during the progress of the execution of the work 75 % of the estimated value of stipulated materials as per the opinion of the Engineer-In-Charge and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes.

c. The Bidder shall see that only the required quantities of materials are got issued. Any such material remaining unused and in perfectly good condition at the time of completion or determination of the contract shall be returned to the Engineer-In-Charge at a place where directed by him, if by a notice in writing under his hand, he shall so require. Credit for such material will be given at the prevailing market rate not exceeding the amount charged from him, excluding the storage charges levied at the time of issue of materials to him. The Bidder shall also not be entitled to cartage and incidental charges for returning the surplus materials from and to the stores wherefrom they were issued.

d. SCHEDULE SHOWING (APPROXIMATELY) MATERIALS TO BE SUPPLIED BY THE PWD FOR EXECUTION OF THE WORK AND THE RATES AT WHICH THEY ARE TO BE CHARGED FOR, ARE AS BELOW :

SL. NO.	PARTICULARS	QUANTITY (APPROXIMATE)	RATE AT WHICH THE MATERIALS WILL BE CHARGED FOR			PLACE OF DELIVERY
			Unit	Rs.	P.	
<b>All construction materials including all kind of steel materials of approved quality will be arranged by the contractor at his own risk &amp; cost.</b>						
<b>( Steel Reinforcement must be of SAIL / RINL / TATA /JINDAL STEEL &amp; POWER LTD / ELECTROSTEEL make )</b>						

BIDDER/CONTRACTOR

EXECUTIVE ENGINEER

**SECTION - V**

**TECHNICAL SPECIFICATIONS**

BIDDER/CONTRACTOR

EXECUTIVE ENGINEER



Government of India  
BHABHA ATOMIC RESEARCH CENTRE  
Civil Engineering Division

**Corrigendum No. 2 to Tender Documents**  
**w.e.f. 09.09.2015**

This may be read along with the existing Tender Documents published on BARC website/tender wizard BARC-DAE. The following are the changes in the existing Tender Documents:

**Sr. No.1: SECTION - III - CONDITIONS OF CONTRACT: CLAUSES OF CONTRACT:**

**CLAUSE 37 : LEVY/TAXES PAYABLE BY CONTRACTOR :** Under this clause the existing first para is modified/ replaced with as under:

**Para I-** Replaced with **New Para** as under:

**New Para:** Sales Tax/VAT (except Service Tax), Building and other Construction Workers Welfare Cess or any other tax or Cess in respect of this contract shall be payable by the contractor and Government shall not entertain any claim whatsoever in this respect. However, in respect of service tax, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by the Engineer-in-Charge after satisfying that it has been actually and genuinely paid by the contractor and the contractor shall give an undertaking that any refund allowed by the assessing authority will be passed on to BARC.

**Sr. No.2 : SECTION - III - CONDITIONS OF CONTRACT: CLAUSES OF CONTRACT:**

**CLAUSE 19 :** Under this clause New Sub Clause is added:

**CLAUSE 19L : Contribution of EPF and ESI**

The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis.

**Sr. No.3: ANNEXURE – B is Modified / Revised as under:**

w.e.f. 09.09.2015

**ANNEXURE - B**

**LIST OF APPROVED MANUFACTURER OF BUILDING MATERIALS**

The makes have been specified in the tender document based on requirements & desired performance and detailed study of the technical parameters, manufacturing process, quality assurance/control & testing and if any bidder wishes to add any other make / brand equivalent to specified in the tender they shall inform at the time of Pre bid meeting / Technical bid submission, the same would be communicated to all the bidders if approved and would become part of the tender.

Sl. No.		Description of materials	List of Manufacturers
1	a	Ordinary Portland Cement 43 Grade	ACC, Birla Rajshree, Ultratech.
	b	Portland Pozzolana Cement (fly ash based confirming to 28 days strength requirement of OPC 43 grade)	ACC, Birla Rajshree, Ultratech,
	c	White Cement	J.K. Cement & Birla White
2		HYSD Bars (TMT Bars) confirming IS-1786	M/s SAIL, RINL, TATA, JSPL, JSW Steel, Sham Steel, Guru Nanak Metal, Metro Ispat., Metro Alloys, M/s. Bhagwati Ferro alloys, Ambe Ferro Alloys
3	a	Structural Steel Sections confirming to IS-2062	M/s. SAIL, RINL, TATA, JSPL, JSW, any other manufacturers confirming to IS-2062
	b	Structural Steel Plates confirming to IS-2062	M/s. SAIL, RINL, TATA, ESSAR, JSPL, JSW, any other manufacturers confirming to IS-2062
4	a	Flyash Bricks	M/s Shirke bricks, M/s Unicorn, M/s Shri Samarth, M/s A Cube bricks, LANVIN Infrastructure Pvt. Ltd., any other approved manufacturers.
	b	Autoclave Aerated Blocks (AAC)	M/s. Siporex , M/s AEROCON
5		Agency for Anti-Termite treatment	M/s PARAGON, PEECOPP, Express Pesticides Corporation, Pest Control (I) Ltd.
6		Tiles:	
	a	Ceramic Tiles	M/s H.R. Johnson (I) Ltd., Somany, Kajaria, Asian Granito India Ltd, Bell graneto
	b	Digital Glazed Vitrified Tiles	M/s H.R. Johnson (I) Ltd., Somany, Kajaria, Asian Granito India Ltd, Bell graneto
	c	Glazed Floor Tiles	M/s H.R. Johnson, RAK Ceramics, Bell Granito, KAJARIA, SOMANY & Asian Granito India Ltd.
	d	P V C flooring Rolls / Tile / Sheets	Premier Poly Vinyl, RMG Poly Vinyl India Ltd., (wonder floor), Armstrong, Responsive Industries Ltd., Royal Cushion Vinyl
	e	Paver Blocks, Polymer moulded Paver Blocks, Chequered concrete Floor Tiles, Unipaver Blocks	Super Tiles, Shree Precast INDUSTRIES, Pavetech Industries, Ultra Tile Pvt. Ltd., Intex Designer Tiles Pvt. Ltd. (Duracrete); Choice Mosaic Tiles.
	f	Concrete Designer wall & Floor tiles	Ultra tile, Eurocon, Duracrete

## RDSO APPROVAL FOR TMT BARS

	भारत सरकार - रेल मंत्रालय अनुसंधान अभिकल्प और मानक संगठन Lucknow - 226 011 EPBX (0522) 2451200 Fax (0522) 2458500	Government of India-Ministry of Railways Research Designs & Standards Organisation Lucknow - 226 011 DID (0522) 2450115 DID (0522) 2485310	
No. WKS/73/TMT/Jindal Steel		Date: 20.10.2016	
<b>M/s JINDAL STEEL &amp; POWER LIMITED,</b> Jindal Centre, Plot No. 2, Sector - 32, Gurgaon (Haryana) - 122001			
Sub: Registration of your firm as supplier of TMT Reinforcement steel bars in Indian Railway.			
Ref: i) Railway Board letter no. 2007/CE-VCT/8 dated 07.03.2014, 31.03.2015 & 22.01.16. ii) Your application no. JSPL/RLY BOARD/TMT/2014-15-001 dated 18.06.2014.			
***			
Your application under ref. (ii) above regarding empanelment of your firm <b>M/s JINDAL STEEL &amp; POWER Limited, Jindal Centre, Plot No. 2, Sector - 32, Gurgaon (Haryana) - 122001</b> as supplier of TMT Reinforcement bars was scrutinized in accordance with Railway Board letters under ref. (i) above. After satisfactory scrutiny of documents, the plant visit was carried out by Director/Works/RDSO and infrastructure found in order. Accordingly, competent authority has approved registration of your firm for the supply of TMT Reinforcement bars for the period of three years i.e. upto 31.10.2019 with following details:			
<ul style="list-style-type: none"> <li>• Head Office :</li> <li><b>M/s JINDAL STEEL &amp; POWER Limited,</b> Jindal Centre, Plot No. 2, Sector - 32, Gurgaon (Haryana) - 122001</li> </ul>	<ul style="list-style-type: none"> <li>• Work Address :</li> <li>1. <b>M/s JINDAL STEEL &amp; POWER Limited,</b> Kharsia Road, Raigarh (Chhattisgarh)- 496001 (Billet Plant)</li> <li>2. <b>M/s JINDAL STEEL &amp; POWER Limited,</b> Balkudra, Patratu, Rangarh (Jharkhand)-829143 (TMT Reinforcement Bar Plant)</li> </ul>		
<ul style="list-style-type: none"> <li>• Trademark :</li> </ul>		<b>JINDAL PANTHER</b>	
<ul style="list-style-type: none"> <li>• Registration for TMT Steel Reinforcement bars Fe500D (6mm-40mm), Fe500S (6mm-40mm), Fe550D (6mm-40mm), Fe600 (8mm-40mm) and CRS conforming to IS-1786:2008 with latest amendment.</li> </ul>			
<ul style="list-style-type: none"> <li>• Validity of Registration : Upto 31.10.2019</li> </ul>			

## RDSO APPROVAL FOR TMT BARS

3. This registration has been done on the basis of information and documents provided by you and the facilities available/ shown during inspection in the plants. If, during the course of time, any outsourcing of finished product is done by your firm, affecting the current status of manufacturing / production capacity, this registration shall not be valid unless & until prior approval is taken from RDSO for the modified manufacturing and out sourcing process/ capacity.
4. This registration is also subjected to timely renewal of your BIS and other licenses and fulfilment of other conditions as per 'Guidelines for vendor approval for supply of TMT reinforcement bars on Indian Railways' available at RDSO website under 'Vendor Interface'. You will also be required to intimate this office regarding renewal of your licenses and any deviation in the firm's identity and business well in advance.

DA: Nil.

  
 (Sandeep Kumar)  
 Director/Works/RDSO

# RDSO APPROVAL FOR TMT BARS

**Copy to:**

1. Executive Director/CE (G), Railway Board, Room no. 127, Rail Bhawan , New Delhi – 110001: For kind information.

**Copy for information and necessary action to:**

2. Principal Chief Engineer, Central Railway, GM Building, 2nd Floor, PCEs office, CST Mumbai – 400 001
3. Principal Chief Engineer, Eastern Railway, 17 N.S. Road, Fairlie Place, Kolkata – 700 001.
4. Principal Chief Engineer, East Central Railway, Engineering Department, 4th Floor, New GM Building, Hajipur-844 101.
5. Principal Chief Engineer, East Coast Railway, Rail Sadan, Chandrashekharpur, Bhubaneswar-751 017.
6. Principal Chief Engineer, Northern Railway, Baroda House, New Delhi – 110 001.
7. Principal Chief Engineer, North Central Railway, HQ office, Subedarganj, Allahabad – 211 015.
8. Principal Chief Engineer, North Eastern Railway, GM office, Gorakhpur – 273 012.
9. Principal Chief Engineer, Northeast Frontier Railway, HQ office, Maligaon, Guwahati – 781 011.
10. Principal Chief Engineer, North Western Railway, HQ office, Near Jawahar Circle, Malviya Nagar, Jaipur – 302 017.
11. Principal Chief Engineer, Southern Railway, HQ office, Park Town, Chennai – 600 003.
12. Principal Chief Engineer, South Eastern Railway, GM office, 11-Garden Reach Road, Kolkata – 700 043.
13. Principal Chief Engineer, South East Central Railway, GM Building, 3rd Floor, Bilaspur (Chhattisgarh) – 495 004.
14. Principal Chief Engineer, South Central Railway, Rail Nilayam, Secunderabad-500071.
15. Principal Chief Engineer, South Western Railway, GM office, Club road, Hubli – 580 023.
16. Principal Chief Engineer, Western Railway, Engineering Department, 2nd Floor, GLO Building, Church Gate, Mumbai – 400 020.
17. Principal Chief Engineer, West Central Railway, GM office, Indra Market, Jabalpur – 482 001.
18. Chief Administrative Officer of Zonal Railways.
19. CMDs of IRCON, RITES, RVNL, RLDA, CONCOR, DMRC, KRCL, MRVC, DFCCIL, RailTel and CRIS.

DA:Nil.

*(Signature)*  
 (Sandeep Kumar)  
 Director/Works/RDSO

# NBCC

http://web.nbcc.co.com/crp/Pages/company\_list.aspx

Logout

NBCC\_15\_16

## MASTER DATA BANK OF PRODUCT

Show List

Select Product  
Select Company

Sr	Product Description	Utilization	Company/Manufacturing Name	Unit	Address	Contact Person	E-MAIL	WEBSITE
1	TMT BARS	FE500, FE500D, AS PER REQUIREMENT, CORROSION RESISTANCE STEEL (CRS) REBARS, COMPANY SUPPLIES CUT AND BEND BARS AS PER REQUIREMENT	INDIA STEEL & POWER LIMITED	12, BHIKALI CAMA PLACE, NEW DELHI-110088	D.P. JINDAL, MANAGER, SALES & MARKETING, HSRD, VASYANA, INDIA	MS NEHA SHARMA, MANAGER, SALES & MARKETING, INDIA	NEHA.SHARMA@JINDALSTEEL.COM, MARKETING@JINDALSTEEL.COM, PAGO@JINDALSTEEL.COM	HTTP://WWW.JINDALSTEELPOWER.COM
2	TMT BARS	TMT BARS FE 500, FE 500D, 500S FE 500D, 500S FE 500D PLUS, CAS REBARS	MONNET STEEL & ENERGY LTD.	MONNET MARK. MANDIR HASAUD, 3407UR-492101, CHATTISGARH	MONNET HOUSE, 11 MASJID MOTH, GREATER KAILASH PART II, DELHI-110048	MR SHRIKANT MANOJ, DT. SALES & MARKETING, CHATTISGARH	MONNETTRAPUR@MONNETGROUP.COM, CHATTISGARH@MONNETGROUP.COM, MONNET@MONNETGROUP.COM	WWW.MONNETGROUP.COM

**Disclaimer:** The details of the products (Technical and/or financial) available in the Master Data is provided for general information purpose only. The use of any of these products is at your own risk and you should not use any of these products without first seeking/ ascertaining their efficacy. The Central Procurement Group of NBCC will not be liable for any causes of action arising from the use of these products.

**ENTERPRISE RESOURCE PLANNING**

- Home
- Employee Portal
- Income Tax(Staff)
- Sal. Recov./Emp. Bank. A/c Report
- Sal. Disbursement Certificate
- TA Billings(Staff)
- Account
- Fund
- Service Bill Requisition
- Fund Transfer Requisition
- Vendor Master
- Client Receipt Form
- PAN/TAN Detail
- Fund Status/Cost Sheet
- Account Reports
- Reports
- Ledger View Report
- Fund Requirer Report
- Project Report
- Project CTE
- Extra Item, LOT Status
- Financial Closure Status
- Project Photo
- File Tracking System
- Employee Training Record
- Bill Watch System
- Leave
- Transfer
- Upload Dashboard Report
- DNIS
- Change Password
- Help

August 2015

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1 of 2

## POWER GRID CORPORATION OF INDIA LTD.

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)



POWER GRID CORPORATION OF INDIA LIMITED पावरग्रिड  
(A Government of India Enterprise)

कंपनी कार्यालय "सादामिनी" प्लॉट नं-2 सेक्टर-29 गुरुगंज 122 001, हरियाणा  
फोन : 2571700 - 719, फैक्स : 2571760, 2571761 तार : नेशनल  
Corporate Office - "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana  
Tel. : 2571700 - 719 Fax : 2571760, 2571761 Gram : NATGRID

Ref: C/QA&I/JSPL

Date: 30.04.2018

**Jindal Steel & Power Ltd.**  
1<sup>st</sup> Floor, Plot No-94, Sector-32  
Gurgaon-122 001

Kind attention- Sh Saurabh Agarwal, AGM-Sales & Marketing

**Subject: Renewal of approval of Jindal Steel & Power Ltd, Ramgarh for wire rod for manufacturing Earthwire/HTGS Corewire, bolt & nut and Ball Pin application**

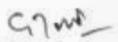
Dear Sir,

This has reference to the subject matter. Based on the submitted documents, we convey renewal of approval of **Jindal Steel & Power Ltd, Patratu, Ramgarh** addressed as above for wire rod for manufacturing earthwire/corewire, bolt & nut and ball pin application with validity **up to 30.04.2021**. Further approval shall be considered based on supply and quality performance.

If, at any point of time, any abnormality is noticed with respect to quality, we reserve the right to withdraw this approval with immediate effect.

Thanking you,

Yours faithfully,

  
(D.K. Sahoo)  
Manager (QA&I)

कंपनी कार्यालय "सादामिनी" प्लॉट नं-2 सेक्टर-29 गुरुगंज 122 001, हरियाणा  
फोन : 2571700 - 719, फैक्स : 2571760, 2571761 तार : नेशनल  
Corporate Office - "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana  
Tel. : 2571700 - 719 Fax : 2571760, 2571761 Gram : NATGRID

## POWER GRID CORPORATION OF INDIA LTD.

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)



POWER GRID CORPORATION OF INDIA LIMITED पावरग्रिड  
(A Government of India Enterprise)

कंपनी कार्यालय "सादामिनी" प्लॉट नं-2 सेक्टर-29 गुरुगंज 122 001, हरियाणा  
फोन : 2571700 - 719, फैक्स : 2571760, 2571761 तार : नेशनल  
Corporate Office - "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana  
Tel. : 2571700 - 719 Fax : 2571760, 2571761 Gram : NATGRID

Ref: C/QA&I/VA/JSW

Date: 30.04.2018

**Jindal Steel & Power Ltd.**  
Plot No-02, Sector-32  
Gurgaon

Kind attention- Sh Saurabh Agarwal, AGM-Sales & Marketing

**Subject: Renewal approval of Jindal Steel & Power Ltd, Angul for reinforcement steel/TMT bars Grade Fe 500/Fe 500D, Fe550/550D size upto 32 mm**

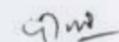
Dear Sir,

This has reference to the subject matter. Based on the submitted documents, we hereby accept **Jindal Steel & Power Ltd, Chendipada Road, Angul, Odisha** for reinforcement steel/TMT bars **Grade Fe 500/500D, Fe 550/550D size up to 32 mm as per IS 1786 (latest revision)** with validity up to **30.04.2021**. Further approval shall be considered based on supply and quality performance.

You are allowed to supply TMT bars from your works or own stock yard by self certification basis. However, please note that POWERGRID if desires can carry out inspection and testing of TMT bars for any of their projects before dispatch, even after issuance of your test certificates.

Please ensure that all items shall meet the requirement of POWERGRID. If, at any point of time, any abnormality is noticed in this regard, we reserve the right to withdraw this approval with immediate effect.

With Regards,

  
(D.K. Sahoo)  
Manager (QA&I)

कंपनी कार्यालय "सादामिनी" प्लॉट नं-2 सेक्टर-29 गुरुगंज 122 001, हरियाणा  
फोन : 2571700 - 719, फैक्स : 2571760, 2571761 तार : नेशनल  
Corporate Office - "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana  
Tel. : 2571700 - 719 Fax : 2571760, 2571761 Gram : NATGRID

## POWER GRID CORPORATION OF INDIA LTD.

पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(सरकार के स्वामित्व में)



**POWER GRID CORPORATION OF INDIA LIMITED** पावरग्रिड  
(A Government of India Enterprise)

केंद्रीय कार्यालय सादामिनी प्लॉट नं. 2, सेक्टर 29, गुरुगांव 122 001, हरियाणा  
फोन : 2571700-719, फैक्स : 2571760, 2571761 तार नेटग्रिड  
Corporate Office : "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana  
Tel : 2571700-719 Fax : 2571760, 2571761 Gram : NATGRID

Ref: C/QA&I/VA/JSPI.

Date: 29.03.18

**Jindal Steel & Power Ltd.**  
Plot No. 02, Sector-32  
Gurgaon, Haryana

Kind attention- Mr Saurabh Agarwal, AGM-Sales & Marketing

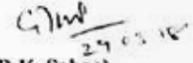
**Subject: Approval of Jindal Steel & Power Ltd, Patratu to supply cut & bend reinforcement steel/TMT bars from their plant of Grade Fe 500/Fe 500D, Fe 550/550D size 6 mm to 40 mm on self certification basis with validity up to 31.03.2021**

Dear Sir,

This has reference to your letter dated 28.03.18 on subject matter. Based on the documents submitted, we hereby convey approval of **Jindal Steel & Power Ltd, Balkudra, Patratu, Ramgarh-829143** to supply cut & bend reinforcement steel/TMT bars from their plant of Grade Fe 500/500D, Fe550/550D size 6 mm to 40 mm as per IS 1786 (latest revision) on self certification basis with validity up to **31.03.2021**. Further approval shall be considered based on supply and quality performance.

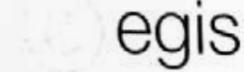
Please ensure that all items shall meet the requirement of POWERGRID. If, at any point of time, any abnormality is noticed in this regard, we reserve the right to withdraw this approval with immediate effect.

With Regards,

  
(D.K. Sahoo)  
Manager (QA&I)

Head Office: 119, Qubab Institutional Area, Kirti Khera, New Delhi - 110016. Phone: 011-6560039 Fax: 011-6560039  
Regional Office: 119, Qubab Institutional Area, Kirti Khera, New Delhi - 110016. Phone: 011-6560039 Fax: 011-6560039

## GAYATRI PROJECT LIMITED



EGIS/TL/PE/Gyatri Pkg-2/015

December 08, 2018

To  
**Gayatri Projects Ltd.**  
Sector A/02/01, Sushant Golf City  
Near G. D. Goenka School,  
ANSAL APL,  
Lucknow

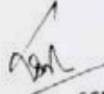
**Subject: Consultancy services for Authority's Engineer for supervision of Package I to Package IV of Purvanchal Expressway in the state of Uttar Pradesh on EPC basis; (Pkg- II); Approval for TMT & Structural Steel Sources -reg.**

Your ref: GPL/UPEIDA/PKG 2/2018-19/71 dated December 05, 2018

Dear Sir,

Based on our review of the submitted profiles & credentials of the manufacturer of TMT & Structural Steel SAIL, **Jindal Steel & Power Ltd** and Rastriya Ispat Nigam Ltd., we would like to comment as follows,

- As per MoRT&H Specification Clause 1009.3 all the reinforcing bars should be procured from original producers only,
- As per details available SAIL Steel and RINL are the main producers whenever JSPL is the original producers,
- Based on our aforesaid comment, we would like to accord our concurrence to aforesaid sources for procurement of reinforcing bars in our project subject to fulfillment of following conditions:
- No rerolled steel should be used.
- The material shall be supplied directly to site exactly as per the specified length.
- Material shall be inspected at yard by our representative prior to use
- Every lots shall have the manufacturer test certificate along with the delivery challan 1 compliance of sub clause 11.9 of Contract agreement. Apart from that material shall be tested from the recognized and approved third party laboratory of duly authenticated samples taken from every lot,
- TMT bar Samples of each lot to be checked/tested for mechanical and chemical Composition and the results should conform to the Specifications as per IS: 1786:2008&MoRT&H Clause 1009.3 of section 1000,
- If any test piece selected from a lot fails, no retesting shall be done and the entire lot is liable for rejection
- Steel shall be stored and protected as per required specification.
- We reserve the right to reject the source without prior notice if it is found that the product proved to be unacceptable at any stage.
- Please note the review of the Authority Engineer shall not relieve the Contractor for its obligations and liabilities under this agreement in any manner.

  
EGIS International S.A. in JV with Egis India Consulting Engineers Pvt. Ltd.

An ISO 9001:2008 Certified Company  
Regd. Office: 119, Qubab Institutional Area, Kirti Khera, New Delhi - 110016. India Tel: +91 11 4570 4300  
Project Office: Plot No. 1/597 Sector-1, Gomti Nagar Vistar, Lucknow - 226 010.  
Email ID: TL.UPEIDA@egis.in/India.com  
Project: Consultancy Services for Authority's Engineer for Supervision of Package-I to Package-IV of Purvanchal Expressway in the state of Uttar Pradesh on EPC Basis



# SARDAR SAROVAR NARMADA NIGAM LIMITED



## Sardar Sarovar Narmada Nigam Ltd.

"A Wholly owned Govt. of Gujarat undertaking"

Block No. 12, 2nd Floor,  
New Sachivalaya Complex,  
Gandhinagar - 382010. Gujarat

Fax : 079-23223056

No. : STL-10-2017-4-HP

Date: 12/12/2017.

To,  
The All Chief Engineers.  
Sardar Sarovar Narmada Nigam Ltd.

Sub.: Approval of vendor registration of M/s. Jindal Steel & Power Limited (JSPL) for Steel Supply in SSNNL works.

Ref.: Letter of M/s. Jindal Steel & Power Limited (JSPL) dated 05/10/2017.

### Preamble:

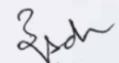
M/s. Jindal Steel & Power Limited (JSPL) vide letter under ref. has requested to SSNNL for vendor registration as steel manufacturer/supplier. The production capacity of M/s. JSPL is 7.75 million ton per annum (MTA). M/s. JSPL makes TMT Re bars with brand name 'JINDAL PANTHER'. According to old definition of primary steel manufacturers, 1 MTA production capacity was widely accepted as specified by the Ministry of steel.

In this connection, I am directed to convey you the Nigam approval as under:

### Order:-

The competent authority of Nigam has approved TMT Re bars with brand name 'JINDAL PANTHER' of M/s. Jindal Steel & Power Limited (JSPL) as steel manufacturer/supplier for supply of steel in SSNNL works and incorporated in SSNNL's identified vendor list. Further, it is also decided that necessary changes should be done in SSNNL's model tender paper and requisite test to ensure the quality should be carried out before use.

This is issued with an approval of competent authority on Nigam File of even number.

  
General Manager  
(Hydro Power)

Copy Submitted to:

(1) The Chief Engineer (CPC), SSNNL, Gandhinagar - With request to include M/s. Jindal Steel & Power Limited make TMT Re bars with 'JINDAL PANTHER' brand name in SSNNL's model tender paper, please.

(2) The Chief Engineer (QC), SSNNL, Gandhinagar - For information, please.

✓ (3) M/s. Jindal Steel & Power Limited (JSPL),  
Regional Office, 806, Iscon Elegance,  
Prahlanagar Cross Road, Nr. Jain Temple,  
S.G. Highway, Ahmedabad - 380 051.

CONSERVE WATER - SAVE LIFE

# RWSSMB

E-mail

OFFICE OF THE SECRETARY  
RAJASTHAN WATER SUPPLY & SEWERAGE MANAGEMENT BOARD,  
(PHED) JAL BHAWAN, 2-CIVIL LINES, JAIPUR-302006  
Phone : 0141-2222117 E-mail: rj\_setm@nic.in

No. Secy/RWSSMB/ Circular/2013-14/ 1896-1915

Date: 03.09.2013

Chief Engineer (HQ)/(R)/(SP)  
PHED, Jaipur

Chief Engineer (Project)  
PHED, Jodhpur

Chief Engineer,  
RRWS&FMP (Nagaur),  
PHED, Ajmer

Addl. Chief Engineer  
PHED, Region..... (All)

**Subject:** Inclusion in specifications for use of only TMT re-bars manufactured by Primary Steel Manufactures for specified components of water supply schemes / projects.

**Ref.:** Decision of Technical Committee 586/30.07.2013.

In 586th meeting of Technical Committee held on 30.07.2013, it was decided to include in specification part of tender document of water supply schemes/projects that TMT re-bars for use in Water Retaining Structure, WTP and Framed Structure Pump House and shall be as per IS 188:2008 and manufactured only by the primary Steel Producers having Integrated Plant using Iron Ore as the basic raw material and no re-rolled material/secondary Steel will be accepted for above mentioned structural works.

Above decision of Technical Committee is hereby re-circulated to ensure compliance of the decision by including the revised specifications in the tender documents.

Sd/-

(D.M. Jain)  
SECRETARY  
RWSSMB, JAIPUR

No. : Secy/RWSSMB/ Circular/2013-14/ 1896-1915

Date: 03.09.2013

Copy to the following for information:-

1. Chief Engineer(Adm.) & TM, RWSSMB, Jaipur.
2. FA&CAO, RWSSMB, Jaipur.
3. DA( TC ), RWSSMB, Jaipur.

Sd/-  
(D.M. Jain)  
SECRETARY  
RWSSMB, JAIPUR

Tele: 011- 2301 3029

एकीकृत मुख्यालय  
Integrated Headquarters  
रक्षा मंत्रालय (नौसेना)  
Ministry of Defence (Navy)  
नई दिल्ली-110011  
New Delhi -110 011

NC/0550/AB

१९ Sep 16

M/s Jindal Steel and Power Limited  
Jindal Centre,  
Plot No.2, Sector -32,  
Gurgaon-122001, Haryana

**APPROVAL TO MANUFACTURE AND SUPPLY  
DMR249A GRADE STEEL**

1. Detailed audit of the steel plant of **M/S Jindal Steel and Power Limited** located at Angul, Odisha was undertaken to establish capability of the firm to manufacture and supply of DMR249A grade steel for Naval applications.
2. Based on the satisfactory evaluation during assessment phase, it is intimated that steel plant of M/S Jindal Steel and Power Limited at Angul has been approved by IHQ MoD(N) for manufacture and supply of DMR249A grade steel plates, thickness **3.15 to 50mm.**

Regards



  
(एम के जोसेफ)/(MK Joseph)  
कप्तान/Captain  
निदेशक नौसेना पोतशिल्प  
Director Naval Architecture

**OFFICE OF THE CHIEF ENGINEER, P.W.D., RAJASTHAN, JAIPUR.**

No.: CE&AS/TA-I/EE(D&T)/2016-17/D-126

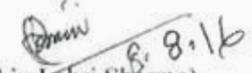
Dated: 08.08.2016

**Circular**

Circular no. मु.अ./अ.अ.(भवन)/डी-577 दिनांक 20.07.2012 and मु.अ./अ.अ.(भवन)/डी-1488 दिनांक 21.01.2013 issued earlier vide this office regarding use of steel for PWD works are hereby withdrawn.

As per specification for Road and Bridge works of MoRTH fifth revision April 2013, Clause 1009.3.1 (Reinforcing Bars) for PWD works *all steel shall be procured from 'Original Producers' who manufacture billets directly from iron ores and roll the billets to produce steel conforming to IS:1786. No rerolled steel shall be incorporated in the works. However, in case the original producers give certificate that they are unable to supply the steel within the required time period or that they are not producing bars of the required diameter, the Engineer may allow the procurement of steel from other suppliers, provided that the reinforcement is manufactured from billets procured from the original producers. In such cases, the manufacturer's certificate alone shall not be considered as sufficient and the steel shall be got tested by the Engineer in the NABL accredited laboratories only, as a third party check. It shall be ensured that all the test results conform to IS:1786 requirements. Only new steel shall be delivered to the site. Every bar shall be inspected before assembling on the work and defective, brittle or burnt bars shall be discarded. Bars with cracked ends shall be discarded.*

The definition of original producer as mentioned in clause 1009.3.1 of fifth revision of MoRTH shall be provided in all future contracts and concession agreements. This shall be applicable for all building & road works executed by Public Works Department of Rajasthan.

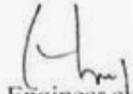
  
(Shiv Lohri Sharma)  
Chief Engineer & Addl. Secretary,  
PWD, Rajasthan Jaipur.

No.: CE&AS/TA-I/EE(D&T)/2016-17/D-126

Dated: 08.08.2016

Copy to following for information and necessary action please:-

1. P. S. to Hon'ble Minister, PWD, Govt. of Rajasthan, Jaipur.
2. P. S. to Addl. Chief Secretary to Govt. PWD, Rajasthan, Jaipur.
3. P. S. to Secretary to Govt. PWD Rajasthan, Jaipur.
4. Chief Engineer cum Addl. Secy. PWD Rajasthan, Jaipur.
5. Chief Engineer NH/Road/ Building/SS/PMGSY/QC PWD Raj. Jaipur
6. MD. RSRDCC Ltd. Jhalana Doongri, Jaipur
7. Financial Advisor, PWD, Rajasthan, Jaipur.
8. Addl. Chief Engineer, PWD, Zone ..... All.
9. Superintending Engineer, PWD, Circle ..... All.
10. Executive Engineer, PWD, Division ..... All.

  
Supdt. Engineer cum TA-I  
PWD, Rajasthan Jaipur.

## SCOPE OF WORKS &amp; SPECIFICATIONS

For

## Design , Development, Construction of Multi Level Car Parking at Birsa Munda Stadium at Rourkela on TURNKEY Basis

OWNER: ROURKELA SMART CITY LIMITED



कार्यालय मुख्य अभियन्ता, सार्वजनिक निर्माण विभाग, राजस्थान, जयपुर  
क्रमांक: मु.अ./अ.अ.(भवन)/डी- दिनांक : 21.01.2013

## परिपत्र

इस कार्यालय द्वारा पूर्व में जारी परिपत्र क्रमांक मु.अ./अ.अ.(भवन)/डी-577 दिनांक 20.07.2012 द्वारा विभाग में उपयोग में लिये जाने वाले स्टील के संबंध में इण्डियन रोड कांग्रेस द्वारा जारी मोर्थ स्पेसिफिकेशन के संस्करण 1009.3 के अनुसार कंपल मुख्य उत्पादक तथा स्टील आर्चीटेक्चर ऑफ इण्डिया लि0 (सेल) टाटा स्टील, राष्ट्रीय इस्पात निगम, एस्सार एवं जिंदल स्टील लि0 जैसी उत्पादक कम्पनियों से कथ किये जाने के निर्देश जारी किये गये थे। इसी संबंध में मोर्थ स्पेसिफिकेशन अनुसार यह स्पष्ट किया जाता है कि मुख्य उत्पादकों के अलावा अन्य स्टील उत्पादक इकाईयों से स्टील उस स्थिति में खरीदा जा सकता है जब इन इकाईयों द्वारा मुख्य स्टील उत्पादकों से कन्वर्जन एजेंट संबंधी प्रमाण-पत्र इस आशय का ले लिया गया हो कि सरिये की रोलिंग के सिधे काम में सी गई विलेट्स की आपूर्ति मुख्य स्टील उत्पादकों द्वारा ही प्राप्त की गई है एवं सी-रोल्ल लोहे से सरिया उत्पादन नहीं किया जायेगा। यह कन्वर्जन एजेंट प्रमाण-पत्र दो वर्ष से अधिक मुचना नहीं हो एवं ऐसा स्टील विभाग के अन्य स्थापित माप दण्डों के अनुरूप हो एवं आवश्यक प्रयोगशाला परीक्षण विभागीय अधिकारियों द्वारा कर-लिये गये हो।

अतः उपरोक्त एतद् द्वारा स्पष्ट निर्देश जारी किये जाते हैं कि विभाग द्वारा भवन एवं पुलों के निर्माण कार्य में रिलेड लोहे/स्केप से बनाये गये स्टील का उपयोग नहीं हो जिससे विभाग द्वारा बनाये गये भवन व पुलों की सुरक्षा सुनिश्चित की जा सके।

(आर. पी. खण्डेलवाल)  
मुख्य अभियंता एवं अतिरिक्त सचिव,  
सा.नि.वि. राजस्थान जयपुर।

क्रमांक: मु.अ./अ.अ.(भवन)/डी-1488

दिनांक : 21.01.2013

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है:-

1. विशिष्ट सहायक, माननीय मंत्री महोदय, सा.नि.वि. राजस्थान, जयपुर।
2. प्रमुख शासन सचिव, सा.नि.वि. राजस्थान, जयपुर।
3. शासन सचिव, सा.नि.वि. राजस्थान, जयपुर।
4. मुख्य अभियंता, सा.नि.वि. (पथ/एन.एच./एस.एन./पी.एम.जी.एस.वाई) राज. जयपुर।
5. प्रबन्धक निदेशक, आर.एस.आर.डी.सी. लि., ज्ञानाना-बूंगरी, जयपुर।
6. वित्तीय सहायक/मुख्य लेखाधिकारी, सार्वजनिक निर्माण विभाग, राज. जयपुर।
7. अतिरिक्त मुख्य अभियंता, सा.नि.वि. सम्भाग- (समस्त)।
8. अधीक्षण अभियंता, सा.नि.वि. वृत्त- (समस्त)/भवन/पथ/एन.एच./एस.एन./पी.एम.जी.एस.वाई।
9. अधिशाही अभियंता, सा.नि.वि.-खण्ड- (समस्त)।

(दिनेश कुमार अग्रवाल)  
अधीक्षण अभियंता (भवन),  
सा.नि.वि. राजस्थान, जयपुर।



## MP POLICE HOUSING & INFRASTRUCTURE DEVELOPMENT

**MP POLICE HOUSING AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD,**  
**BHADBHADA ROAD, BHOPAL (M.P.)**  
 No/ 1330 /MPPHDC/TS/SA /BPL/18/ DATED - 25-7-15

### ORDER

**Panther** Brand Name Steel, Manufactured by **Jindal steel & Power Plant Limited**, are approved for use in ongoing construction works of MP Police Housing & Infrastructure Dev. Corp. Ltd. for one year from the date of issue of this order, unless otherwise delisted earlier due to quality issues.

Encl. list.

*(Signature)*  
 (Sanjay Rana)  
 MANAGING DIRECTOR  
 MP POLICE HOUSING & INFRA. DEV. CORP.  
 BHOPAL

Encl. No/ 1330 /MPPHDC/TS/SA /BPL/18/ DATED - 25-7-15  
 COPY:-  
 1- Chief Project Engineer MPPHDC, Bhopal for information.  
 2- FA & CAO MPPHDC, Bhopal for information.  
 3- SE-I,II,III MPPHDC, Bhopal for information.  
 4- PE MPPHDC, Bhopal, Indore, Ujjain, Ratlam, Gwalior, Chambal, Rewa, Jabalpur, Balaghat, Sagar, Technical for information.  
 5- Assistant Engineer, Technical Section MPPHDC, Bhopal for information & Office Record.  
 6- **Jindal steel & Power Plant Limited, 104, 1<sup>st</sup> Floor Chinar fortune city, Hoshangabad Road Bhopal for information.**

*(Signature)*  
 (Sanjay Rana)  
 MANAGING DIRECTOR  
 MP POLICE HOUSING & INFRA. DEV. CORP.  
 BHOPAL

Printed

360

## APPROVAL LETTER UPPCL



### यू०पी० प्रोजेक्ट्स कारपोरेशन लि०

(उत्तर प्रदेश सरकार का उपक्रम)

CIN : U15209UP1976SGC004285

पत्र सं०-1577/पीसीएल/मुख्यालय/डी०एच०(एमए) दिनांक: 21/7/2015

### कार्यालय ज्ञाप

निर्माण कार्यो हेतु कय की जा रही सीमेन्ट की दरों में भिन्नता को समाप्त करने के उद्देश्य से सीमेन्ट का कय सीमेन्ट निर्माताओं, अधिकृत विक्रेताओं अथवा सी० एण्ड एफ० एजेन्ट के माध्यम से ही किया जाये जिससे दरों में भिन्नता न हो। इसी प्रकार रीनफोर्समेन्ट स्टील का कय भी प्रीमियम स्टील के प्रतिष्ठित निर्माताओं यथा टटा स्टील्स, जिन्दल स्टील आदि से सीधे अथवा अधिकृत विक्रेताओं से किया जाना सुनिश्चित किया जाये।

प्रतिलिपि- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है:

- 1- मुख्य महाप्रबन्धक, यू०पी० प्रोजेक्ट्स कारपोरेशन लि०, लखनऊ।
- 2- वित्तीय सलाहकार एवं मुख्य लेखाधिकारी, यू०पी० प्रोजेक्ट्स कारपोरेशन लि०, लखनऊ।
- 3- समस्त महाप्रबन्धक, यू०पी० प्रोजेक्ट्स कारपोरेशन लि०, -----
- 4- समस्त परियोजना प्रबन्धक, यू०पी० प्रोजेक्ट्स कारपोरेशन लि०, -----

*(Signature)*  
 (आर०पी० पाण्डेय)  
 महाप्रबन्धक (डी०एण्डपी०)

पंजीकृत कार्यालय : गोमती बैराज बायां तट, गोमती नगर, लखनऊ-226010  
 दूरभाष : 0522-2308945, 2308946, 2308947, 2308970, 2308911  
 E-mail: ho@upprojects.org, Website: www.upprojects.org

**मध्यप्रदेश ग्रामीण सड़क विकास प्राधिकरण**

(म.प्र.शासन, पंचायत एवं ग्रामीण विकास विभाग के अधीन)

(म.प्र. सांसाइटी रजिस्ट्रिकरण अधिनियम 1973 के अधीन पंजीकृत संस्था : पंजीयन क्रमांक 8746/2000)  
खण्ड-2, पंचम तल, पर्यावास भवन, अरेरा हिल्स भोपाल

क्र. 7851/22/वि-12/ग्रा.स.वि.प्रा./GM-7/बिज/660/2018, भोपाल दि. 13/04/2018

प्रति,

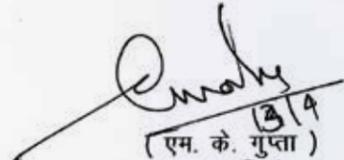
मेसर्स जिंदल स्टील एण्ड पॉवर लिमिटेड,  
104, चिनार इन्क्लूब,  
चिनार फोरव्यून सिटी,  
होशंगाबाद रोड, भोपाल (म.प्र.)विषय: जिंदल स्टील एण्ड पॉवर द्वारा निर्मित TMT Bars के प्रधानमंत्री ग्राम सड़क योजना में  
उपयोग करने के संबंध में।

संदर्भ: आपका पत्र क्र निरंक दि. 22.03.2018

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उपरोक्त विषय में संदर्भित पत्र के माध्यम से आपके द्वारा जिंदल स्टील एण्ड पॉवर द्वारा निर्मित TMT Bars के प्रधानमंत्री ग्राम सड़क योजना के मार्गों एवं पुलों में उपयोग करने के संबंध में लेख किया गया है। इस संबंध में यह लेख किया जाता है कि प्राधिकरण के पत्र क्र. 27735 दि. 28.12.17 द्वारा प्रधानमंत्री ग्राम सड़क योजना के कार्यों में विभिन्न फर्मों द्वारा प्रोसेस किये गये Reinforcement / Structural Steel उपयोग करने के संबंध में विस्तृत निर्देश जारी किये गये हैं। पत्र में वर्णित निर्देशों के अनुसार Original ore से निर्मित एवं निर्धारित गुणवत्ता मापदण्ड वाले स्टील का उपयोग प्रधानमंत्री ग्राम सड़क योजना कार्यों में किया जाना है तथा इसकी जांच NABL की अधिकृत लेब से कराई जाना है। सुलभ संदर्भ हेतु इस कार्यालय द्वारा जारी पत्र को प्रति संलग्न कर प्रेषित की जा रही है।

संलग्न :- उपरोक्तानुसार।

  
(एम. के. गुप्ता)  
प्रमुख अभियंता  
मध्यप्रदेश ग्रामीण सड़क, विकास प्राधिकरण,  
भोपाल

**मध्यप्रदेश ग्रामीण सड़क विकास प्राधिकरण**

(म.प्र.शासन, पंचायत एवं ग्रामीण विकास विभाग के अधीन)

(म.प्र. सांसाइटी रजिस्ट्रिकरण अधिनियम 1973 के अधीन पंजीकृत संस्था : पंजीयन क्रमांक 8746/2000)  
खण्ड-2, पंचम तल, पर्यावास भवन, अरेरा हिल्स भोपाल

क्र. 27735/22/वि-12/GM-7/660/17,

भोपाल दि. 28/12/2017

प्रति,

महाप्रबंधक (समस्त)  
म.प्र. ग्रामीण सड़क विकास प्राधिकरण  
पीआईयू ..... (म.प्र.)विषय: प्रधानमंत्री ग्राम सड़क योजना के कार्यों में विभिन्न फर्मों द्वारा प्रोसेस किये जा रहे  
Reinforcement / Structural Steel उपयोग करने के संबंध में।संदर्भ: इस प्राधिकरण का पत्र क्रमांक 616 दिनांक 11.1.16, पत्र क्रमांक 9504 दिनांक 31.3.17 एवं  
पत्र क्रमांक 23624 दिनांक 7.11.17

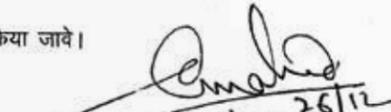
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प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत निर्मित किये जा रहे वृहद पुलों तथा अन्य Structures में लगने वाले Structural Steel की वृहद आवश्यकता के दृष्टिगत विभिन्न निर्माताओं/रिरोलर्स/संस्थाओं द्वारा प्राधिकरण में अपने उत्पादों की जानकारी हेतु Introductory Letter प्रस्तुत किये जाते हैं। प्राधिकरण द्वारा पत्र क्रमांक 9504 दिनांक 3.3.17 जारी किए जाने तक विभिन्न संस्थाओं द्वारा प्राप्त पत्रों की स्थिति अंकित करते हुए इस कार्यालय द्वारा सभी महाप्रबंधकों को निर्देश जारी किये गये थे, इस अनुक्रम में एक अन्य संस्था मेसर्स कामधेनु स्टील द्वारा पत्र प्रेषित किया गया है।

इस संबंध में संदर्भित पत्रों द्वारा पूर्व में जारी निर्देशों के क्रम में पुनः लेख है कि पुलों/अन्य कार्यों में लगने वाला स्टील I.S. 1786: 2008 एवं MORTH Specification (5<sup>th</sup> revision) के सेक्शन 1000 के अनुरूप होना चाहिए। स्टील का ग्रेड Fe 415/ Fe 500 / Fe 500D होना चाहिए। Steel should be procured only from Primary Steel Producer / Integrated Steel plant. No re-rolled material/ secondary Steel will be accepted or allowed for any structural work.

अतः इस संबंध में पूर्व में संदर्भित पत्रों द्वारा जारी निर्देशों के साथ-साथ पुनः निर्देशित किया जाता है कि अपने क्षेत्र में कार्यकारी निर्माण संस्थाओं को इस आशय के निर्देश अपने स्तर पर जारी कर दें कि पूर्व में जारी पत्र में इंगित की गई संस्थाओं के अतिरिक्त अथवा अन्य कोई भी फर्म / कंपनी जो original ore से स्टील निर्धारित मापदण्ड का बनाते हैं उनसे भी स्टील प्राप्त किया जा सकता है। शर्त यह होगी कि steel की टेस्टिंग IS-1786 के अनुसार third party check के रूप में NABL की अधिकृत लेब से कराई जावे। टेस्टिंग निर्धारित मात्रा के लिये कराई जाये एवं मानक गुणवत्ता का पाये जाने पर ही उनका उपयोग निर्माण कार्यों में किया जावे। हर संभव प्रयास यह होना चाहिए कि टेकेदार के द्वारा SAIL (स्टील अथोरिटी ऑफ इंडिया लिमिटेड) से ही स्टील कय कर उपयोग किया जाए।

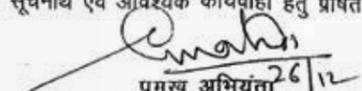
उक्त निर्देशों/प्रावधानों का कड़ाई से पालन किया जावे।

  
(एम. के. गुप्ता)  
प्रमुख अभियंता  
म.प्र. ग्रामीण सड़क विकास प्राधिकरण  
भोपाल (म.प्र.)

पृ.क्र.: 27736/22/वि-12/GM-7/660/17,

भोपाल दि. : 28/12/2017

प्रतिलिपि - समस्त मुख्य महाप्रबंधक, म.प्र. ग्रामीण सड़क विकास प्राधिकरण, भोपाल, जबलपुर, इन्दौर,  
उज्जैन, ग्वालियर, सागर एवं टीवा की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।।

  
प्रमुख अभियंता  
म.प्र. ग्रामीण सड़क विकास प्राधिकरण  
भोपाल (म.प्र.)



## उत्तर प्रदेश राजकीय निर्माण निगम लिमिटेड

( उत्तर प्रदेश सरकार का उपक्रम )

विश्वेश्वरैया भवन, विभूति खण्ड, गोमतीनगर, लखनऊ  
पीबीएक्स संख्या-2720671, 2720665, 2720670 Fax-2720846

संदर्भ संख्या 191 / क्रय / रानिनि / 2018

दिनांक 13/06/2018

### परिपत्र

मुख्यालय द्वारा स्टील के सूचीबद्ध उत्पादको से दरें प्राप्त की गयी, जिनमें विभिन्न साइजो तथा अलग-अलग स्थानों के लिये, विभिन्न कम्पनी की दरें न्यूनतम पायी गयी, जिनका उल्लेख संलग्न तालिका में किया गया है। निगम द्वारा इन न्यूनतम एफओआरओ साइट दरें दिनांक 07 जून 2018 से 6 जुलाई 2018 तक अथवा मुख्यालय द्वारा पुर्ननिर्धारण होने तक की अवधि हेतु अनुमोदित किया जाता है।

इन दरों में सभी टैक्स एवं लेवी सम्मिलित है तथा ये आईएसओ-1786 एफ ई-500 विशिष्टियों की स्टील की दरें हैं। उक्त दरों में साइट पर माल उतरवाने का व्यय सम्मिलित नहीं है।

- 1- प्रबन्ध निदेशक महोदय ने यह स्पष्ट निर्देश दिए हैं कि केवल सूचीबद्ध फर्मों से स्टील की आपूर्ति ली जाये एवं इन दरों पर किसी अन्य फर्म से स्टील की आपूर्ति न ली जाय एवं आपूर्ति प्रस्तुत मांग तक ही सीमित रहेगी।
- 2- जिन स्थानों के लिए एफओआरओ साइट दरें निर्धारित की गयी है, उन स्थानों पर इकाई प्रभारी सम्बन्धित स्थानों के सापेक्ष अनुमोदित दरों पर स्टील की आपूर्ति प्राप्त करें। इन स्थानों के अतिरिक्त अन्य स्थानों के लिये सूची में सम्मिलित समीपस्थ स्थान पर स्टील की आपूर्ति प्राप्त करके उसका कार्टेज निगम की व्यवस्था से इकाई पर करा लिया जाय। यदि फर्म अनुमोदित दरों पर ही सम्बन्धित साइट पर आपूर्ति करने को तैयार हो, तो सीधे साइट पर ही आपूर्ति ले ली जाय। आपूर्ति आदेश की मात्रा यथा सम्भव न्यूनतम एक ट्रक लोड होनी चाहिए। इकाई प्रभारियों को निर्देश दिये जाते हैं कि ट्रक साइट पर पहुंचने पर उसकी अनलोडिंग में अनावश्यक विलम्ब न होने दें।
- 3- कोई भी इकाई, परिपत्र में इंगित के अनुसार अनुमोदित स्टील उत्पादको के अलावा अन्य किसी कम्पनी, स्टाकिस्ट अथवा वितरक से स्टील आपूर्ति बिना मुख्यालय की अनुमति के नहीं लेंगी। स्टील का क्रय डीलर्स एवं अन्य माध्यमो से किये जाने की कार्यवाही को गम्भीरता से लिया जायेगा।
- 4- उपरोक्तानुसार स्टील आपूर्ति आदेश के विरुद्ध इकाई द्वारा 90 प्रतिशत भुगतान प्रोफार्मा इनवाइस के विरुद्ध बैंक ड्राफ्ट द्वारा आपूर्ति आदेश के आधार पर नियमानुसार किया जायेगा। इकाई द्वारा ड्राफ्ट चार्जज की कटौती सम्बन्धित आपूर्तिकर्ता से ली जायेगी। आपूर्तिकर्ता फर्म की इनवाइस में अंकित मात्रा/वजन में से जो भी कम हो के अनुसार आपूर्ति सामग्री प्राप्त होने के सात दिन के अन्दर समायोजित किया जायेगा। कार्य स्थल के समीपस्थ धर्म काटे पर आने-जाने का व्यय स्टील आपूर्तिकर्ता द्वारा वहन किया जायेगा।
- 5- निगम को किसी भी अप्रत्याशित दशा में निर्धारित अवधि से पूर्व दरों को निरस्त करते हुए दरे पुनः निर्धारित करने का अधिकार सुरक्षित है।
- 6- यदि किसी अनुमोदित फर्म द्वारा इकाई से आपूर्ति आदेश की प्राप्ति के एक सप्ताह की निर्धारित अवधि में आपूर्ति नहीं की जाती है तो इकाई स्तर से उसकी सूचना फैक्स के माध्यम से, महाप्रबन्धक (वाणिज्य) को दी जायेगी। इकाई से उक्त सूचना प्राप्त होने पर मुख्यालय द्वारा फर्म को एक नोटिस जारी कर आपूर्ति पूर्ण करने हेतु तीन दिन का अन्तिम अवसर दिया जायेगा। इसके बाद भी यदि किसी फर्म द्वारा आपूर्ति पूर्ण नहीं की जाती है तो इकाई प्रभारी उक्त निर्धारित दरों अथवा उपलब्ध न्यूनतम दरों पर अन्य स्टील उत्पादको से स्टील का क्रय अपने अंचलीय महाप्रबन्धक के अनुमोदन से कर सकेंगे। उक्त क्रय की गयी स्टील की मात्रा व दर से महाप्रबन्धक (वाणिज्य) को अवगत कराया जायेगा तथा सम्बन्धित उत्तरदृष्टी फर्म से उनको भुगतान की गई अग्रिम धनराशि तथा वास्तविक आपूर्ति एवं अनुमोदित दरों की धनराशि के अन्तर की आवश्यक कटौती उनकी जमानत धनराशि से कर ली जायेगी।

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- 7- अंचलीय महाप्रबन्धक यह सुनिश्चित करेंगे कि मुख्य भवन सामग्री जिसमें स्टील सम्मिलित है के क्रय में गुणवत्ता का पूर्ण ध्यान रखा जा रहा है तथा आईएसओआईओ मार्क स्टील का क्रय ही किया जाये। इसके अतिरिक्त मुख्यालय में पंजीकृत स्टील कम्पनियों के अतिरिक्त अन्य स्रोतों से स्टील क्रय की कार्यवाही बिना मुख्यालय के पूर्व अनुमति के नहीं की जाय।
- 8- आपूर्ति कर्ता द्वारा प्रत्येक आपूर्ति के साथ आईएसओआईओ कोड के प्राविधानानुसार टेस्ट सर्टिफिकेट उपलब्ध कराया जायेगा। इकाई प्रभारियों द्वारा मुख्यालय के परिपत्र संख्या: 2428/विधि-10/रानिनि/99-207 दिनांक 19.11.99 का अनुपालन सुनिश्चित किया जाये तथा आवश्यकतानुसार आपूर्ति किये गये स्टील की जाँच कराई जायेगी तथा परिणाम से गुणवत्ता प्रकोष्ठ मुख्यालय को भी अवगत कराया जाये।
- 9- इकाई प्रभारियों को यह निर्देश दिये जाते हैं कि वह सूचीबद्ध आपूर्तिकर्ताओं/उत्पादनकर्ताओं से प्राप्त आपूर्ति पर GST @ 18 % अर्थात् CGST @ 9 % तथा SGST @ 9 % के आधार पर गणना करेंगे तथा यदि कोई सामग्री एक राज्य से दूसरे राज्य में आपूर्ति की जानी हो तो IGST@18% लगेगा इसका पालन करना सुनिश्चित करेंगे।
- 10- उपरोक्त आदेशों का कड़ाई से अनुपालन सुनिश्चित करें।

इस परिपत्र द्वारा सूचित दरों पर क्रय करते समय कार्यवाही में सजगता बरतते हुए यह पुष्टि कर ले कि बाजार में इन दरों से कम दरों पर स्टील उपलब्ध है एवं यदि है तो नियमानुसार अंचलीय महाप्रबन्धक के अनुमोदन से बांझित कार्यवाही कर मुख्यालय को अवगत कराये। यह भी निर्देशित किया जाता है कि बड़े डाय (12 एमएम से बड़े डाय को अर्थात् 16 एमएम, 20 एमएम, 25 एमएम, 28 एमएम व 32 एमएम) की आवश्यकता की पूर्ति हेतु समग्र दृष्टि से प्राथमिक उत्पादको, सेल, टाटा स्टील, राष्ट्रीय इस्पात निगम, जिन्दल स्टील एण्ड पावर लि०, तथा एलेक्ट्रोस्टील स्टील्स लि० से यथा सम्भव क्रय करने की कार्यवाही करे। उक्त परिपत्र प्रबन्ध निदेशक महोदय के अनुमोदनोपरान्त निर्गत किया जा रहा है।

13/6/18  
महाप्रबन्धक (वाणिज्य)

प्रतिलिपि निम्नलिखित को सूचार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:-

- 1- समस्त अंचलीय महाप्रबन्धक, उ० प्र० राजकीय निर्माण निगम लि० को इस आशय से प्रेषित कि परिपत्र इकाई प्रभारियों को समय से उपलब्ध कराना सुनिश्चित करेंगे एवं स्टील की दरों के सम्बन्धित स्थान के आस-पास के स्थानों की दरों से मिलान कर निर्धारित दरों से कम दरों पर आपूर्ति मिलने की स्थिति में मुख्यालय को सूचित करते रहे तथा अनुमोदित कम्पनी से अतिरिक्त अन्य आईएसओआईओ निर्माताओं की दरों का मार्केट सर्व प्रत्येक दशा में माह में दो बार अवश्य कराने की व्यवस्था करे।
- 2- अनुमोदित आपूर्तिकर्ता (परिपत्र में इंगित ) द्वारा निर्धारित अवधि में आपूर्ति नहीं की जाती है तो उस दशा में मुख्यालय द्वारा उसे तीन दिन के अन्दर आपूर्ति की व्यवस्था कराने हेतु नोटिस जारी किया जायेगा जिसके उपरान्त उस फर्म की बैंक गारन्टी निगम के पक्ष में भुना ली जायेगी तथा एफडीआर/ डीडी जब्त कर ली जायेगी।
- 3- अंचलीय महाप्रबन्धक अपने अधीनस्थ इकाई की आगामी तीन माह की आवश्यकता संकलित रूप से एक सप्ताह में मुख्यालय गेजना सुनिश्चित करेंगे।

संलग्नक:-उपरोक्तानुसार।

11  
(अनिल कुमार)  
प्रबन्धक (क्रय)



तार : जल निगम

दूरभाष : 0522-2624245

फैक्स : 0522-2624245

# उत्तर प्रदेश जल निगम

प्रधान कार्यालय: 6, राणा प्रताप मार्ग, लखनऊ -226001

पत्रांक 412 /क्रय/कान्फ/सामान्य/(2121-0408)/2018, दिनांक 19 /04/2016

सेवा में,

समस्त मुख्य अभियंता(क्षेत्रीय),

उत्तर प्रदेश जल निगम,

गोरखपुर/आगरा/मुरादाबाद/कानपुर/गाजियाबाद/वाराणसी/इलाहाबाद/झांसी/फैजाबाद/लखनऊ ।

विषय:-

**Request for approval for supply Jindal Panther TMT Bars, Cut and Bend profiles and Weld Mesh from Jindal Steel & Power Ltd.**

महोदय,

उपरोक्त विषयक **M/s Jindal Steel & Power Ltd.,** Plot No.-2, Sector-32, Gurgaon -122001 के प्रबंध निदेशक महोदय को संबोधित पत्र सं० JSPL/UPJB/LKO/2018-19/1, dt. 17.04.2018 (छायाप्रति संलग्न) प्रबंध निदेशक महोदय के कॅम्प डायरी सं० 2976, दिनांक 17.04.2018 के माध्यम से इस कार्यालय को प्राप्त हुआ है । उक्त पत्र की प्रति आपको नियमानुसार अग्रतर कार्यवाही हेतु संलग्न कर प्रेषित की जा रही है ।

संलग्नक:- उपरोक्तानुसार ।

भवदीय,

(समीर गोविल)

सामग्री प्रबन्धक

पु०सं० एवं दिनांक उपरोक्तानुसार।

प्रतिलिपि निम्नलिखित को संलग्नक सहित सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

1. समस्त अधीक्षण अभियंता/महाप्रबंधक, उप० जल निगम ।
2. समस्त अधिशासी अभियंता/परियोजना प्रबंधक ।
3. M/s Jindal Steel & Power Ltd., Plot No.-2, Sector-32, Gurgaon -122001 को उनके पत्र दिनांक 17.04.2018 के संदर्भ में को स्पीडपोस्ट द्वारा प्रेषित ।

संलग्नक:- उपरोक्तानुसार ।

(जितेश निगम)

उप सामग्री प्रबन्धक

NAME OF WORK :-DEVELOPMENT OF PERMANENT CAMPUS OF NU AT RAJGIR		
SUBJECT: APPROVED MAKES FOR CIVIL WORK		
SR. NO.	ITEM DESCRIPTION	APPROVED MAKE
1	CEMENT	. A.C.C. . ULTRA TECH . AMBUJA . BIRLA GOLD
2	WHITE CEMENT	. J.K. WHITE . BIRLA WHITE . TRAVANKORE
3	REINFORCEMENT STEEL	. TATA STEEL LTD. . SAIL . RINL . JINDAL STEEL AND POWER LIMITED
4	TAPERED/PARALLEL THREADED COUPLERS (All dia.)	. LOKPAL INDUSTRIES- NOIDA, . RAVI TRANSMISSION PRODUCTS- MUMBAI, . RACHNA ENGITECH - RAJKOT, . SHRINATH ENTERPRISES PUNE.
5	STRUCTURAL STEEL	. TATA STEEL LTD. . SAIL . RINL . ESSAR . JSW STEEL LTD./JSPL
6	PLASTICIZERS/ADMIXTURE/ CONSTRUCTION CHEMICALS/TILE ADHESIVE	. FOSROC . SIKA . BASF . MYK SCHOMBERG . MC BAUCHEMIE . CICO
7	BACKER ROD/FILLER BOARD	. SUPREME . STP . JOLLY BOARD
8	POLYSULPHIDE/EPOXY SEALANT	. FOSROC . SIKA . BASF . MYK SCHOMBERG . MC BAUCHEMIE . CICO
9	EXPANSION JOINT FLEXI STRIP	. FOSROC . SIKA . MYK SCHOMBERG . MC BAUCHEMIE . BASF
10	AUTOCLAVED AERATED CONCRETE BLOCK	. BRIXO . OPTIMA CUBE . BILTECH . MAGICRETE . ULTRATECH X-TRALITE
11	CERAMIC TILES	. KAJARIA . JOHNSON/ENDURA . NITCO . SOMANY . KAJARIA
12	VITRIFIED TILES	. JOHNSON/ENDURA . BELL CERAMICS . SOMANY
13	TERRACOTTA CLAY TILES/PAVERS	. BANGLORE TILE COMPANY . C.A.ANTONY & COMPANY . TRENDZ IMPEX
14	TERRACOTTA GLAZED TILES	. GRESMANC . GRASE ARAGON . CRISTACER
15	GLASS MOSAIC TILE	. BISAZZA . PALLADIO . ITALIA GLASS . SHON
16	PVC VINYL FLOORING	. WONDERFLOOR (BRAVO) . ARMSTRONG
17	POLYMER MODIFIED CEMENTITIOUS GROUT/MORTAR/ NON-SHRINK GROUT/EPOXY GROUT	. MYK SCHOMBERG . CICO . FOSROC . BASF . MC BAUCHEMIE



**Amaravati Development Corporation Limited**  
(CIN-U93000AP2015SGC105535)

From T. Moses Kumar, B.Tech. Chief Engineer, Amaravati Development Corporation, Vijayawada..	To 1. M/s NCC Ltd,(Seed Access Road) 2. M/s NCC Ltd, (Pkgs-I) 3. M/s BSR Infratech India Ltd-(Pkg-II&IX) 4. M/s BSCPL Infrastructure Ltd-(Pkg-III) 5. M/s BSCPL Infrastructure Ltd-(Pkg-IV)
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Letter No.330/CE/ADCL/Eng/Jindal steel/2017, dated 30-12-2017

Gentleman,

**Sub:** - ADC-Eng-Usage of Steel products of M/s Jindal Steel & Power for ADCL works-Intimation- Reg.

**Ref:** - Letter Dated 28.11.2017 of JSPL addressed to CMD, ADC.

\*\*\*\*\*

It is to inform that the steel products of M/s Jindal Steel & Power in the brand name of Jindal Panther (TMT Rebars) is also permitted for usage in ADCL works in addition to the Brands noted in the BoQ of Agreements of ADCL.

Yours sincerely,

  
Chief Engineer,  
ADC, Vijayawada.

Copy submitted to the CMD, ADC, for favour of information.

Copy to All Concerned DEE's/Sr.Infra Engineers & Associate/site Engineers for information.

Registered office: - Door No. 20-4-15, Flat no: 1G, Anand Heights, Beside Prabhas College, Kedareshwarapet, Vijayawada - 520003, Contact Number. +91 866 - 2534575, 2532539, Web Site: [www.ccdmc.co.in](http://www.ccdmc.co.in), Email: [amaravati-adc@ap.gov.in](mailto:amaravati-adc@ap.gov.in), [ccdmc.amaravati@gmail.com](mailto:ccdmc.amaravati@gmail.com).



**PANCHAYATI RAJ & D.W DEPARTMENT**  
**GOVERNMENT OF ODISHA**

**BID DOCUMENT FOR**  
**PROCUREMENT OF PWS WORK ON TURNKEY BASIS**

**(DESIGN & EXECUTION)**

**DETAILED TENDER CALL NOTICE**

**Name of the work:** Supplying all labour, T&P for laying of Rising Main and Distribution Pipe Line of HDPE/ GI, Construction of Pump House, Compound Wall, RCC ESR, UGR, SV Chamber, Stand Posts with other ancillary works for RPWS Scheme to Madhapur under Khordha Block

**ESTIMATED COST: Rs.73.66 Lakh**

**BID ID NO: 34/2018-19**

**PART-I: GENERAL & TECHNICAL BID**  
**RURAL WATER SUPPLY & SANITATION ORGANIZATION**

**3.0 SPECIFICATION**

3.1 Water used for mixing and curing shall be clean and free from injurious quantities of alkalis, acids, oils, salts, sugar, organic materials, vegetable growth or other substances that may be deleterious to bricks, stone, concrete or steel. Potable water is generally considered satisfactory for mixing. The PH value of water shall be not less than 6 and more than 8.0.

3.2 Cement shall not be less than O.P.C.-53 grade/Slag and as per IS:12269 of reputed Manufactures. (Lafarge/ Ultratech/ OCL etc) (As per direction of Engineer-in-charge)

3.3 Reinforcement to confirm Fe 500 and as per IS :456 and IS:1786.(TATA/ JINDAL etc) (As per direction of Engineer-in-Charge)

**3.4 Mild Steel Binding Wire:**

The mild steel wire shall be of 1.63 mm or 1.22 mm (16 or 18 gauge) diameter and shall confirm to IS-280 or as revised from time to time.

**3.5 Sand for Masonry Mortar, Concrete mix and for Plaster:**

Sand shall consist of natural sand, crushed stone sand or crushed gravel sand or a combination of any of these. Sand shall be hard, durable, clean and free from adherent coatings and organic matter and shall not contain the amount of clay, silt and fine dust more than specified.

**3.6 Bricks:**

The contractor shall supply first class K.B.Brick for all brick work. The bricks shall be hard or machine moulded and made from suitable soils and kiln burnt. They shall be free from cracks and flaws and modules of free lime. They shall have smooth rectangular faces with sharp corners and shall be of uniform colour. The size of the conventional bricks shall be 250 mm x120 mm x 80mm. The crushing strength of the bricks shall not be less than 75 kg/sq.cm. The average water absorption shall not be more than 20 percent by weight. A necessary test for crushing strength and water absorption shall be carried out as per IS: 3495 (Parts I to IV) as directed by the Engineer-In-Charge.

**3.7 Cement Concrete**

The concrete shall be in grade designated as under:

**GRADES OF CONCRETE**

Group Designation	Grade	Specified Characteristic Compressive Strength of 150 mm Cube at 28 Days in N/mm <sup>2</sup>
Ordinary Concrete	M10	10
	M15	15
	M20	20
Standard Concrete	M25	25
	M30	30

Notes :

- In the designation of concrete mix M refers to the mix and the number to the specified compressive strength of 150 mm size cube at 28 days, expressed in N/mm<sup>2</sup>

**Concrete Mix Proportioning:**

The determination of the proportion of cement, aggregate and water to attain the required strengths shall be made as follows:

By designing the concrete mix; such concrete shall be called 'Design mix concrete.

**Construction Joints:**

Concreting shall be carried out continuously up to construction joints. The position and arrangement of construction joints shall be as shown in the structural drawings or as directed by the Engineer-in-charge. Number of such joints shall be kept minimum. Joints shall be kept as straight as possible. Construction joints should comply with IS : 11817.

**BID IDENTIFICATION NO.: Civil/ EST/ 51/ 2018-19**



**ISO 9001 & 14001 CORPORATION**

**COVER – I**

**TECHNICAL BID DOCUMENTS / DETAILED TENDER CALL NOTICE FOR THE WORK**

**Name of the Work: Construction of New Academic Building (First Floor) for Govt. Polytechnic at Berhampur.**

**(% based Tender)**

**Estimated Cost Put To Tender: Rs.2,67,01,240.00**

**CHIEF GENERAL MANAGER  
IDCO, BHUBANESWAR**

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT In Words
9.00	<b>Cutting, Straightening coiled or bent up HYSD / TMT Reinforcement Bars welding or jointing</b> if necessary, bending, binding, tying the grills as required for R.C.C. works, providing Fan Hooks where necessary and hoisting, lowering and placing the same in proper position according to the approved designs and drawings in all floors at all height including cost, conveyance, loading, unloading, stacking of HYSD/ TMT Reinforcement Bars and Binding Wires of 18 to 20 Gauge as required for the work, cost of all Labour, Sundries, T&P, Staging and Scaffolding complete <b>excluding GST</b> in all respect as directed by Engineer-in-charge. (Linear measurements will be taken & quantity will be calculated on standard weight as per ISI. Weight of binding wire will not be considered for measurement. No payment will be made for overlap, couplings, welded joints spacer bars, stays, hangers and wastage. Cost of these items shall be deemed to be included in the rates for reinforcement) - <b>(Brand-SAIL / TATA / JINDAL STEEL / SHYAM STEEL / RINL)</b>					
9.10	First Floor	1582.22	Qntl.	6290.10	9952322.02	INR Ninety Nine Lakh Fifty Two Thousand Three Hundred & Twenty Two and Paise Two Only
10.00	<b>16 m.m thick cement plaster in cement mortar of mix (1:6) in all floors</b> at all height using screened & washed sharp river sand for mortar with approved quality of cement, finished smooth to the rough surface of the brick masonry walls after racking out the joints properly, providing grooves wherever necessary including cost, conveyance, loading, unloading, stacking, royalties of all Materials, cost of all Labour, T&P, Sundries, Scaffolding, Watering, Curing, Rounding of corners etc. required for the work etc. complete <b>excluding GST</b> as directed by the Engineer- In - charge.					
10.10	First Floor	3238.19	Sqm	147.60	477956.84	INR Four Lakh Seventy Seven Thousand Nine Hundred & Fifty Six and Paise Eighty Four Only
11.00	<b>12 m.m thick cement plaster in cement mortar of mix (1:6) in all floors</b> at all height using screened & washed sharp river sand for mortar with approved quality of cement, finished smooth to the even surface of the brick masonry walls after racking out the joints properly, providing grooves wherever necessary including cost, conveyance, loading, unloading, stacking, royalties of all Materials, cost of all Labour, T&P, Sundries, Scaffolding, Watering, Curing, Rounding of corners etc. required for the work complete <b>excluding GST</b> as directed by the Engineer- In - charge.					
11.10	First Floor	2171.04	Sqm	105.10	228176.30	INR Two Lakh Twenty Eight Thousand One Hundred & Seventy Six and Paise Thirty Only

Percentage BoQ

Tender Inviting Authority: SUPERINTENDING ENGINEER, THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD..

Name of Work: CONSTRUCTION OF 4 NOS OF F TYPE QTR. AT SUB- JAIL, BARAGARH.

Contract No: 38/SE/31/OPHWC/2018-19

Bidder Name :

**PRICE SCHEDULE**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	6	54.00	55
1.00	<b>4 "F" type Qtr:-</b>					
2.00	<b>Civil Works:-</b>					
3.00	50000003 Providing and laying plain cement concrete 1:4:8 (1 cement:4 cleaned washed river sand: 8 down graded black hard granite crusher broken stone aggregate 40mm nominal size) of approved quality and from approved quarry including hoisting lowering and laying concrete in layer not exceeding 15cm.(6") thick to the required levelling course in foundation and plinth etc. including tempering, curing, shuttering etc. complete all depth and height as per the specification and direction of E.I.C. (Ground Floor)	16.62	CUM	3307.70	54973.97	INR Fifty Four Thousand Nine Hundred & Seventy Three and Paise Ninety Seven Only
4.00	50000008 Providing and laying reinforced cement concrete of M-20 grade with 12mm to 20mm (1/2" to 3/4") size (20mm not to exceed 25%) hard black crusher broken stone chips of approved quality from approved quarry including hoisting lowering and compacting concrete watering curing finishing the exposed including cost of all materials, labour T&P, machinery royalty conveyance taxes etc. complete in all respect but excluding the cost of reinforcement or Tor STEEL and binding wire of 18 to 20 gauge and labour charges for straightening, cutting bending binding and tying the grills and placing in proper position and as per direction of engineer in charge. (Ground Floor)	64.64	CUM	4114.66	265971.62	INR Two Lakh Sixty Five Thousand Nine Hundred & Seventy One and Paise Sixty Two Only
5.00	First Floor	24.04	CUM	4173.23	100324.45	INR One Lakh Three Hundred & Twenty Four and Paise Forty Five Only
6.00	Second Floor	3.06	CUM	4240.59	12976.21	INR Twelve Thousand Nine Hundred & Seventy Six and Paise Twenty One Only
7.00	50000009 "Rigid and smooth centering and shuttering false, levelled works and dismantling then after casting including cost of materials complete for Plinth band & Column Footing." (Ground Floor)	111.74	SQM	93.99	10502.44	INR Ten Thousand Five Hundred & Two and Paise Forty Four Only
8.00	50000010 Providing and fixing, centering, shuttering of lintels including removal of form work at all depth and height. (Ground Floor)	26.49	SQM	222.79	5901.71	INR Five Thousand Nine Hundred & One and Paise Seventy One Only
9.00	First Floor	26.11	SQM	267.35	6980.51	INR Six Thousand Nine Hundred & Eighty and Paise Fifty One Only
10.00	Second Floor	1.21	SQM	320.82	388.19	INR Three Hundred & Eighty Eight and Paise Nineteen Only
11.00	50000011 Providing and fixing, centering, shuttering of girders, beams, column etc including removal of forms work at all depth and height. (Ground Floor)	176.95	SQM	545.08	96451.31	INR Ninety Six Thousand Four Hundred & Fifty One and Paise Ninety One Only
12.00	First Floor	135.39	SQM	654.10	88558.60	INR Eighty Eight Thousand Five Hundred & Fifty Eight and Paise Sixty Only
13.00	Second Floor	36.56	SQM	784.92	28696.68	INR Twenty Eight Thousand Six Hundred & Ninety Six and Paise Sixty Eight Only
14.00	50000012 "Rigid and smooth centering and shuttering of RCC works including false, works of RCC walls and fins etc. including removal of form work at all depth and heights." (Ground Floor)	16.75	SQM	466.93	7821.08	INR Seven Thousand Eight Hundred & Twenty One and Paise Eight Only
15.00	Second Floor	16.75	SQM	560.32	9385.36	INR Nine Thousand Three Hundred & Eighty Five and Paise Thirty Six Only

CONTRACTOR

GM(Tech.)-CUM-SE

242.00	Installation Charges including transportation					
243.00	a) Charge per 1 Set	1.00	SET	4200.00	4200.00	INR Four Thousand Two Hundred Only
244.00	APPROVED MAKE / BRAND FOR CIVIL WORK					
245.00	a) CEMENT : ULTRATECH, LAFARGE, ACC ,DCL & BIRLA GOLD					
246.00	b) STEEL : SAIL , VIZAG TATA TISCON, RINL, JINDAL STEEL & SHYAM STEEL					
247.00	c) ALL TYPE OF FLOORING WORKS : JHONSHON&JHONSHON,KAJARIA,NITCO, ORIENT Bell, SOMANY, Cement paint & Anti fungal weather coat of ASIAN PAINT&BERGER of approved brand & quality.					
248.00	APPROVED MAKE / BRAND FOR P.H. WORK					
249.00	a) C.P.V.C. Pipes & Fittings:- According to IS:15778 (Make-Supreme,Oriplast)as per specification.					
250.00	b) Soil Water Rain Pipes(U.P.V.C Type) & fittings:- According to IS 13592/1992(Type-A) & Fittings belonging to IS 14735/1999 (Make-Supreme, Oriplast)as per specification.					
251.00	c) Ceramic Ware Items :- Wash Basins ,Standing Urinal both type (Long,Short): According to IS 2556 Part-4 2004 (Basin), IS 2556 Part-6 1996(standing urinal) (Make- W. C JAQUAR MAKE & BASIN- JAQUAR MAKE)as per specification.					
252.00	d) All Chromium Plated Brass Fittings & Fixtures :- According to IS:781-1995 (Make-Jaquar, Kohler & Rokas) as per specification.					
253.00	e) CPVC Valves as per specification.					
254.00	f) Kitchen Sink:- Stainless steel sink IS 13983 as per specification.					
255.00	g) PVC Connection Pipe:- Both end brass nuts with washers					
256.00	h) Mirror:- PVC Frame with Darwar Shape- Elegant, Charlee as per specification.					
257.00	i) U.P.V.C Pipes 4kg/sqcm (0.60mpa):- According to IS 4985/2000(Oriplast, Supreme) as per specification.					
258.00	j) CPVC supreme as per Class -1 SDR- 11 according to ASTM-D-2846 as per specification.					
259.00	k) G.I. Pipe (Medium):- (TATA & ZINDAL ) IS 1239/1992 if required as per specification.					
260.00	l) 10 ltr capacity Low level PVC cistern :- (make -parry ware,ceraj) IS 7231/1994 as per specification.					
261.00	<b>CESS</b>				42351.18	INR Forty Two Thousand Three Hundred & Fifty One and Paise Eighteen Only
Total in Figures					4277469.76	INR Forty Two Lakh Seventy Seven Thousand Four Hundred & Sixty Nine and Paise Seventy Six Only
Quoted Rate in Figures		Select			0.00	INR Zero Only
Quoted Rate in Words						INR Zero Only

CONTRACTOR

GM(Tech.)-CUM-SE

BID IDENTIFICATION NO. CCERRIP-09/2018-19

**GOVERNMENT OF ODISHA**  
DEPARTMENT OF WATER RESOURCES  
**RENGALI RIGHT IRRIGATION PROJECT**



**TECHNICAL BID DOCUMENT**  
**(COVER-I)**

**FOR THE WORK**

**Name of Work:- Excavation of Darpani Branch Canal from RD 37.966 km to 40.295 km including construction of its structures of Right Bank Canal of Rengali Irrigation Project**

**Estimated Cost: – Rs. 17,67,25,664.00**

CHIEF CONSTRUCTION ENGINEER  
RENGALI RIGHT IRRIGATION PROJECT  
DHENKANAL

## DEPT OF WATER RESOURCE

- ii) To terminate the contract forthwith by notice in writing to the contractor or to the liquidator or receiver or to any person in whom the contract may become vested and to act in the manner as per prevalent clauses of P-1 contract.

85. The contractor shall on the written direction of the Executive Engineer immediately **remove from the works any person** employed thereon, who may, in the opinion of the Engineer-in-charge, be incompetent or has misconduct himself. Such person shall not be employed again on the works without the written permission of the Engineer-in-charge.
86. The detail Tender Call Notice and all the Annexure there to will form the part of the agreement when the work will be awarded to the contractor. All the correspondences made with the contractor and all his correspondences with the department after the tender is received will also be attached with the agreement.
87. The bidder should arrange the materials like Steel, Cement, paint and bitumen etc. of approved quality and specification at his own cost for completion of the work with the time schedule. No extension of time will be granted on the application of the bidder due to delay in procurement of materials.
88. The contractor should at his own cost arrange necessary tools and plants required for the efficient execution of work and the rates quoted should be inclusive of the running charges of each plant and cost of conveyance.
89. No extra payment will be made for the jungle clearance for taking earth from the borrow areas. Earth work from cutting shall be economically utilized in filling.
90. The machineries, if available, with the department may be supplied on hire as per normal hire charges of Government in force at the time of execution of work subject to the condition that the contractor will execute in advance an agreement with the Engineer-in-Charge.
91. Cement shall be used by bags and weight of one bag of cement being taken as fifty (50) Kg. The Cement of the companies having their own manufacturing units in the State of Odisha is to be used in all works.
92. All reinforcement steel and structural steel shall be procured from primary producers of steel-SAIL/RINL/TATA/JINDAL STEEL/ SHYAM STEEL. In case of exigency, other brands (primary producers) of steel may be used with proper justification and prior approval of competent authority satisfying the tests as required by BIS's Code.
93. No claim for carriage of water what-so-ever will be entertained as this has been included in the estimate and the bidder has to quote his / their rate accordingly.
94. It is the responsibility of the contractor to procure and store explosive required for blasting operation. Department may render necessary possible help for procuring license.
95. For diversion road the contractor will have to make his own arrangement to make the same in private land if necessary for which agreement of such land by the side of C.D. works and the rental charges for such private land shall be borne by the contractor including the proper maintenance with lighting arrangements during the night time and signaling during day time and barricading etc. till the C.D.

CONTRACTOR

29

EXECUTIVE ENGINEER  
RIGHT CANAL DIVISION NO. VI, JAGATPUR

## BEHRAMPUR DEVELOPMENT AUTHORITY



**BRAHMAPUR DEVELOPMENT AUTHORITY**  
Court road, Courtpeta, Brahmampur, Ganjam, Odisha. PIN 760004  
www.bdabrahmapur.in, bda.brahmapur311@gmail.com  
Phone No- 0680 2292797

**DETAILED TENDER CALL NOTICE (DTCN)  
FOR  
"Development of Tampara Lake Front under  
Swadesh Darshan scheme DRDA Guest house side  
at Chatrapur, Ganjam, Odisha  
ESTIMATED COST: Rs. 392.35 LAKH**

**Bid Identification No.BeDA-13/2018-19 Dt.03.09.2018**

**PART-I: General & Technical Bid**

***COST OF TENDER PAPER: Rs.10,000.00***

**September- 2018**

## BEHRAMPUR DEVELOPMENT AUTHORITY

### SECTION -09

#### TECHNICAL SPECIFICATIONS & DESIGN CRITERIA

##### 9.1 General Conditions:

1. Cement shall not be less than OPC/PPC-53 grade of reputed manufacturers confirming to relevant IS.
2. Reinforcement to confirm Fe-415/500 and IS specification (SAIL, TATA, Jindal, Shyma & RINL).
3. As & when required, the steel/cement & other building materials will be tested by Department at the cost of contractor to ensure proper quality.
4. Testing of water brightness shall be conducted as per relevant IS Codes.
5. Machine mix shall be used in concrete work for all structure. Design mix of concrete will be preferred. Vibrator of appropriate type shall be used for compaction of concrete.
6. All the structures are to be designed as permanent type and shall have aesthetic elevation. Buildings shall have good aesthetic and imposing elevation and architecture with the grounds attractively landscaped.
7. Form work shall be of steel plates and frame, sound seasoned timber or any approved materials as decided by Engineer -in-charge to be used for the centering and shuttering of the structures.
8. Painting of all steel/MS structure to be done as per approved quality of enamel paint over a coat of primer.
9. All electrical /earthing including wiring to be done as per relevant IS specification and Indian Electrical Rules. Single phase wiring shall be done for lighting purpose & three phase wiring shall be done for running pump motors wherever necessary.
10. The surplus earth and debris should be lifted after completion of work and proper levelling of site as directed by Engineer-in- charge without any extra claim.
11. Pumps and motors to be of reputed and approved make.
12. All the work including supply of materials to be executed as per relevant IS specification and direction of Engineer-in-charge. Seasoned wood should be used in all wood works and anti-termite treatment should be applied to all the wood works. The wood shall be certified by the Engg-in-charge before execution of work.

Madhab Chandra Behera

  
 Engineer Memos.  
 Brahmapur Development Authority  
 Brahmapur

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## NPCC

**NATIONAL PROJECTS CONSTRUCTION CORPORATION LTD.**  
 (A Government of India Enterprise)

BHUBANESWAR ZONAL OFFICE, PHASE-VII, HIG-59, SAILASHREE VIHAR,  
 BHUBANESWAR- 751021, ODISHA STATE  
 Phone: 0674 - 2741417  
 Email: [npccbbsr@gmail.com](mailto:npccbbsr@gmail.com)  
 Web site: [www.npcc.gov.in](http://www.npcc.gov.in)



#### E-TENDER

**FOR CONSTRUCTION OF POST MATRIC 100 SEATED  
 HOSTEL FOR OBC IN JEYPORE, KORAPUT DISTRICT,  
 ODISHA (PACKAGE-III)**

ISSUED TO:

M/s.

Sig. & Seal of Tenderer

1

N.P.C.C. Ltd.

**LIST OF APPROVED MAKES/BRANDS/AGENCIES**

The Owner/Consultant reserves the right to select any of the brands indicated in the list of approved makes without any extra claim from the contractor. Following makes/ brands are also approved in addition to those mentioned in the item of works as described in BOQ & Specifications.

**CIVIL WORKS**

SL. No.	ITEMS	APPROVED MAKE
1	GREY CEMENT	ACC, J.K, BIRLA; ULTRA TECH, JAYPEE, SHREE, PRISM
2	WHITE CEMENT	JK, BIRLA WHITE
3	WALL PUTTY	BIRLA, J.K SRIRAM
4	REINFORCEMENT/STRUCTURAL STEEL	SAIL, TATA, RATHI, JINDAL, BHUSHAN
5	ANTI-TERMITE TREATMENT	PEST CONTROL INDIA LTD, PEST CON INDIA, PEST CONTROL INCORPORATED.
6	CONCRETE ADDITIVE	CICO, PIDILITE, FOSROC, BASF
7	PRELAMINATED FLUSH DOORS/ SHUTTERS	GREEN, DURIAN, CENTURY, AMULYA
8	FLUSH DOORS / SHUTTERS	GREEN CLUB, DURIAN, CENTURY, AMULYA
9	PLYWOOD / BLOCK BOARD / SOFT BOARD	GREEN CLUB, CENTURY ARCHITECT PLY, DURO, DURIAN SUMO, AMULYA
10	PRELAMINATED PARTICLE BOARD	NOVAPAN, GREEN LAM, MERINO, AUSTIN, ARCHID, AMULYA
11	LAMINATES	CENTURY, DURIAN, GREEN, ROYAL TECH, MERINO, ARCHID, AMULYA
12	MDF BOARD	DURO, MERINO, GREENLAM, CENTURY, KITPLY, ARCHID, AMULYA
13	ADHESIVE FOR WOOD WORK	DUNLOP, FEVICOL, PIDILITE.
14	POLYURETHANE SEALANT	KRYTON, PIDILITE, FAREMATE,
15	POLYETHYLENE BOARD/ BACK UP ROD	SUPREME INDUSTRIES, FINOLEX
16	ALUMINIUM SECTIONS	JINDAL, HINDALCO
17	STAINLESS STEEL	JINDAL OR EQUIVALENT
18	STAINLESS STEEL RAILING	OZONE, DORMA, KITCH, VISTA
19	EXPANSION/ FASTNERS	FISHER, HILTI, ANCHOR
20	FLOAT GLASS / TOUGHENED GLASS	SAINT GOBAIN, MODIGUARD, ASAHI
21	CERAMIC TILES	KAJARIA, HR JOHNSON, ORIENTBELL
22	VITRIFIED TILES	KAJARIA, ORIENT BELL, SOMANY
24	EXTERIOR WALL TILES	BELL, UNISTONE, HR JOHNSON
28	SYNTHETIC ENAMEL PAINTS	BERGER (LUXOL GOLD), ASIAN (APCOLITE), ICI DULUX (GLOSS), SHALIMAR
29	OIL BOUND DISTEMPER	SHALIMAR, ASIAN PAINT, BERGER (BISON), NEROLAC.
30	CEMENT BASED PAINT	SHALIMAR, SNOWCEM PLUS, BERGER (DUROCEM EXTRA), ASIAN
31	PLASTIC EMULSION PAINT/ INTERIOR PAINT	OIKOS, SKK, UNISTONE, BERGER, ICI, NEROLAC, ULTRATECH
32	OTHER PAINTS / PRIMERS	ICI DULUX, ASIAN, BERGER, NEROLAC
33	PAINTS	BERGER, ASIAN PAINTS, ICI, NEROLAC
34	SURFACE TEXTURE PAINT (EXTERIOR)	OIKOS, SKK, UNISTONE, SPECTRUM, ULTRATECH
35	SURFACE TEXTURE PAINT (INTERIOR)	OIKOS, SKK, UNISTONE, ULTRATECH



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THE ODISHA MINING CORPORATION LTD  
(A Gold Category State PSU)  
Registered Office: OMC House,  
Bhubaneswar-751 001



## STANDARD BID DOCUMENT (SBD) For Civil & Electrical Work

**Work Name:** Construction of 2<sup>nd</sup> floor office building for prospecting section over Mines Managers Office at Central township, Kaliapani in the dist of Jajpur.

**Place of Work:** Central township, Kaliapani in the dist of Jajpur.

**Region:** Chrome Region.

**Mandatory Information**

1. The Bidders should upload the required documents to meet the eligibility criteria vide Clause 2.3 and submission of document clause 2.4 only.
2. The Bidder should not upload unnecessary / un relevant documents which are not sought for some times the unnecessary / un relevant documents submitted, hide the required documents which may result declaring the bid as non-responsive.
3. Document submitted should be numbered and annexed for better accessibility of documents.

## ODISHA MINING CORPORATION

### 2.21 Approved make / brand of materials:

The Bidder shall have to mobilize the materials for use in the work as per the following approved brand of materials. There should not be any deviation to it unless and otherwise specifically mentioned in the specifications in the tender schedule / agreement.

**(i) Cement:** 33 grade or higher grade of PSC/OPC/PPC of ACC/ OCL/ Ultratech/ Lafarge

**(ii) Reinforcement Steel/ Structural Steel:** SAIL / TATA Steel / RINL/ JINDAL Steel/ SHYAM Steel

**(iii) Bitumen:** IOCL / BPCL/ HPCL

All other materials are to be used as per the specifications of BOQ

**2.22 Statutory approval:** It is the responsibility of the successful bidder to get the electrical installation approved after execution of the work by the respective statutory authority.

### 2.23 Extraneous Condition-

The tender containing extraneous conditions not covered by the NIT or Bid document are liable for rejection.

Sd/-  
Tender Inviting authority

## (3) CONDITIONS OF CONTRACT

### 3.1 Work to be executed in accordance with specification, drawing & order:

The contractor shall execute the whole and every part of the work in the most substantial and workman like manner with respect to both materials and workmanship strictly in accordance to the specifications of the agreement. The contractor shall also confirm fully and exactly to the designs, drawings, and instructions in writing relating to the work signed by EIC and kept in his office and to which the contractor shall be entitled to have access at such office for the purpose of inspection during office hours. The contractor shall, if he so requires, be entitled at his own expense to make or cause to be made copies of all such specifications, designs, drawings and instructions as aforesaid.

### 3.2 Obligation for completion of the work:

**(i)** It shall be the responsibility of the contractor to procure/ arrange all materials required for the work including procurement of steel, cement and bitumen etc. (to be approved by the Engineer-in-charge) from the market at his cost and complete the work within the stipulated time of completion as per accepted agreement. At no stage difficulty or obstacle for procurement of materials due to any reasons whatsoever shall be entertained by the department nor any plea for extension of time or compensation/claim to this effect shall be entertained on account of the above. The safe custody of the materials issued by OMC or procured by the contractor will be sole responsibility of the contractor. All incidental expenses like transport, storage, handling of materials either issued by OMC or procured by

## AP R&B

### GOVERNMENT OF ANDHRA PRADESH ROADS AND BUILDINGS DEPARTMENT

From  
Sri Y.Rajeev Reddy,  
Engineer-In-Chief (R&B),  
Admn, NH & CRF,  
State Offices Complex,  
Opp. to IG Municipal Stadium,  
MG Road, Vijayawada-520 010.

To  
✓The Head - PAG (AP & Telangana),  
Jindal Steel & Power Limited,  
O.P. Jindal Marg,  
Hisar - 125 005, Haryana, India.

Lr. No. 123236/BOCE/AEE5/DEE2/MC/2006

Dt:05-02-2019

Sub:- R&B Dept.- Request for approval for supply of Jindal Steel & Power Limited steel products to R&B Ongoing & forthcoming Projects - Reg.

Ref:- Lr. No: Nil, Dt: 11-12-2018 of the Head - PAG (AP & Telangana), Jindal Steel & Power Limited, O.P. Jindal Marg, Hisar - 125 005, Haryana, India.

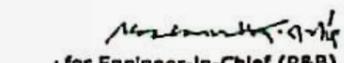
\*\*\*\*\*

With reference to the letter cited for approval for supply of **Jindal Steel & Power Limited** steel products to R&B Ongoing & forthcoming Projects, It is to inform that approval of the Steel manufacturers is not being done by the Roads and Buildings Department or even by the Board of Chief Engineers. As the Department specifies to use the reinforcement steel as per IS 1786 specifications in the Bid documents, the Contractors shall purchase Steel from the BIS certified companies duly checking the Quality of Steel as per the Specifications.

Since your Company have obtained the (i) BIS certification Marks Licence No. CM/L-5200040268 for High strength deformed steel bar (TMT) and Wires for Concrete reinforcement as per IS 1786:2008 up to 07-07-2019 vide endorsement No. 04, Dt: 17-07-2017 of Scientist-E & Head, Bureau of Indian Standards, Bhubaneswar, (ii) BIS certification Marks Licence No. CM/L-550868 for High strength deformed steel bars and wires for Concrete reinforcement as per IS 2830:2012 up to 31-07-2019 vide endorsement No. 15, Dated: 25-07-2018 of Scientist-E & Head, Bureau of Indian Standards, Jamshedpur, your product i.e., JINDAL PANTHER Fe550D may be purchased by the Contractors of the Department duly testing the Quality as per the Specifications.

Hence, you are requested to approach the Contractors who are executing the works and major Projects for purchase of Steel as per their requirements.

Yours faithfully,

  
for Engineer-In-Chief (R&B),  
Admn, NH & CRF

## APTRANSCO APPROVAL



**TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED**  
(a wholly owned State Govt. Company)  
Vidyut Soudha :: Vijayawada. CIN: U31909AP19985GC107226  
Website address: [www.aptransco.gov.in](http://www.aptransco.gov.in)

CERTIFIED TRUE COPY OF MINUTES OF WHOLE TIME DIRECTORS OF APTRANSCO HELD ON THURSDAY 25<sup>TH</sup> DAY OF JANUARY, 2018 AT 11:00 A.M AT 3<sup>RD</sup> FLOOR, SLDC BUILDING, VIDYUT SOUDHA, GUNADALA, VIJAYAWADA - 520004.

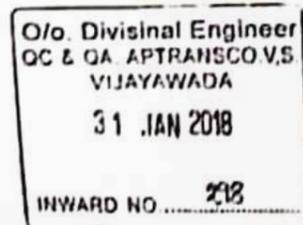
Execution of 400KV lines and Substations in APTRANSCO – Approval of Re Rollers based on BIS Certification.

- In addition to the already approved raw materials from SAIL/RINL/ TISCO for structural steel, the following additional approvals are accorded.
  - M/s Jindal Steel Power Ltd., (JSPL) for billets/Blooms/Plates/ HR Coils
  - M/s JSW for HR Coils/Wire rods
  - M/s Uttam Value Steels for Plates/HR Coils/Sheets
  - M/s Maharashtra Seamless for ERW pipes.

QC Wing may visit the factories of M/s. JSPL, M/s JSW, M/s Maharashtra Seamless Limited (MSL) and M/s Uttam Value steels to know the manufacturing process.

- Regarding the raw materials for Reinforcement steel for civil works, in addition to the approved raw materials from SAIL/RINL/TISCO, M/s. JSPL is approved.

Regarding Re-Rollers of steel, the present practice of vendor registration may be continued.



//Certified True Copy//

*M. Karunakar Reddy*  
M. Karunakar Reddy  
Company Secretary  
APTRANSCO

## UK CARES APPROVAL CERTIFICATIONS

# CERTIFICATE OF APPROVAL



### Product Conformity Certification

This is to certify that

**JINDAL STEEL & POWER LTD**

at its establishment at

**Angul, India**

has satisfied the Authority that it operates a quality management system that complies with the requirements of BS EN ISO 9001 and the relevant CARES Quality and Operations Assessment Schedules. Where appropriate, and as listed below, it has further satisfied the Authority that it manufactures and/or supplies products that conform with the stated product standards and is entitled to use the CARES marks on its products using the processes and procedures registered with the Authority.

#### Scope of certification:

BS 4449:2005 grade B500B bar 8 to 32mm

This certificate remains the property of the Authority and is issued subject to the Regulations of the Authority. This certificate is uncontrolled when printed. To check the validity of this certificate please visit [www.ukcares.com](http://www.ukcares.com) or contact us on +44 1732 450000.

CERTIFICATE NUMBER	FIRST APPROVAL	ISSUE DATE	EXPIRY DATE
180603	June 2018	01 January 2019	31 December 2019

SIGNED FOR UK CERTIFICATION AUTHORITY FOR REINFORCING STEELS

*Lee Brankley*  
Lee Brankley,  
Chief Executive Officer

The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 002.  
UK Certification Authority for Reinforcing Steels, Penbrake House, 21 Penbrake Road, Sevenoaks, Kent, TN13 1DX, UK.  
A Company Limited by Guarantee. Registered in England No. 1762448.  
Gen. Ref: ABC112010-72901 827



## UK CARES APPROVAL CERTIFICATIONS

# CERTIFICATE OF APPROVAL



Quality Management System Certification

This is to certify that  
**JINDAL STEEL & POWER LTD**  
 at its establishment at  
**Angul, India**  
 has been approved by the Authority to the following management system standard using the processes and procedures registered with the Authority:  
**BS EN ISO 9001: 2015**  
**Scope of certification:**  
 Production of continuously cast steel billets  
 Production of hot rolled steel bar for the reinforcement of concrete.

This certificate remains the property of the Authority and is issued subject to the Regulations of the Authority. This certificate is uncontrolled when printed. To check the validity of this certificate please visit [www.ukcares.com](http://www.ukcares.com) or contact us on +44 1732 450000.

CERTIFICATE NUMBER	FIRST APPROVAL	ISSUE DATE	EXPIRY DATE
<b>1585</b>	<b>June 2018</b>	<b>28 June 2018</b>	<b>28 June 2021</b>

SIGNED FOR UK CERTIFICATION AUTHORITY FOR REINFORCING STEELS

  
 Lee Brantley,  
 Chief Executive Officer



The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 002.  
 UK Certification Authority for Reinforcing Steels, Pembroke House, 21 Pembroke Road, Sevenoaks, Kent, TN13 1DX, UK.  
 A Company Limited by Guarantee. Registered in England No. 1762448.  
 Car. Ref: AHC112010 72901 826

## BHUBANESWAR SMART CITY LTD.



PAN NO: **AFJPM4361E**  
 TIN NO:  
 GSTIN: **21AFJPM4361E25**

### P-1 AGREEMENT

**No. 04 (P-I)/BSCL/2017-18**

Name of the Work	: Integrated Public Services Centre (IPSC) in Saheed Nagar, Bhubaneswar, Odisha (Composite Tender)
T.S. No.	: 003/ BSCL/ 25.04.17
Name of the Contractor	: Sri Biswa Prasad Mohanty, Plot No. 234, Saheed Nagar, Bhubaneswar
Agreement Value	: Rs. 2,99,98,039.00
Date of Commencement	: 04-10-2017
Stipulated Date of Completion	: <u>11 (eleven) calendar months</u>
Extension of time granted up to	:
Authority and No & Date in Which extension of time granted	:

*Certified Copy* Certified that the agreement contains - <sup>241</sup>~~242~~  
 (two hundred forty one) nos of pages only.

*[Signature]*  
 Chief Executive Officer  
 Bhubaneswar Smart City Ltd.

*[Signature]*  
**CHIEF EXECUTIVE OFFICER,  
 BHUBANESWAR SMART CITY LTD.**

CONTRACTOR

CHIEF EXECUTIVE OFFICER  
 BHUBANESWAR SMART CITY LTD.

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## BHUBANESWAR SMART CITY LTD.

Item No	Item of work	RATE AS PER SANCTIONED ESTIMATE		Per	
		In Figures			In Words
		Rs.	P.		
	1005.43	781.20		Rupees Seven Hundred Sixty One and Twenty Paise Only	Sqm
6.3	For 2nd Floor				
	1095.25	913.40		Rupees Nine Hundred Thirteen and Forty Paise Only	Sqm
6.4	For Roof slab				
	215.39	1096.10		Rupees One Thousand Ninety Six and Ten Paise Only	Sqm
7	Supplying Cutting, straightening or bent up Fe-500D for steel of primary steel producers such as SAIL / Tisco. / RINL / JINDAL STEEL / SHYAM STEEL (grade Fe-500D) etc. including bending, binding, welding and jointing if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances, taxes of tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors with labour cess etc. (payment will be made on standard weight of B.I.S. for or for steel only) etc. complete as per specification & direction of Engineer-in-charge.				
7.01	For Foundation to Plinth beam				
	337.29	5691.40		Rupees Five Thousand Six Hundred Ninety One and Forty Paise Only	Qntl
7.02	Ground Floor				
	371.56	5691.40		Rupees Five Thousand Six Hundred Ninety One and Forty Paise Only	Qntl
7.03	For 1st Floor				
	314.50	5705.80		Rupees Five Thousand Seven Hundred Five and Eighty Paise Only	Qntl
7.04	For 2nd Floor				
	320.29	5720.90		Rupees Five Thousand Seven Hundred Twenty and Ninety Paise Only	Qntl
7.05	For Mumty				
	43.23	5736.80		Rupees Five Thousand Seven Hundred Thirty Six and Eighty Paise Only	Qntl
8	R.C.C. work of M-30 in following works using 12 mm. to 20 mm. size (20 mm. not less than 50%) hard black crusher broken granite stone chips of approved quality from approved quarry including hoisting, lowering, laying and compacting concrete, watering curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour,labour cess and T & P required for the work etc. complete in all respect but excluding the cost and conveyance of Tor steel and binding wire of 18 to 20 gauge, labour and centering & shuttering charges for straightening, cutting, bending, binding and tying the grills and placing in proper position and as per the direction of the Engineer-in-charge.				
8.01	For Foundation to Plinth beam				
	204.90	5258.20		Rupees Five Thousand Two Hundred Fifty Eight and Twenty Paise Only	Cum

CONTRACTOR

General Manager (Engg. & Tech)  
Bhubaneswar Smart City Ltd.

CHIEF FINANCE OFFICER  
Bhubaneswar Smart City Ltd.

CHIEF EXECUTIVE OFFICER  
BHUBANESWAR SMART CITY LTD

# ANNEXURE-03

TEST CONDUCTED FOR 8mm in Fe 500 D



**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India)  
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website : www.shriraminstitute.org  
E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE NO.: C1/0000048488

Issued To: **JINDAL STEEL & POWER LIMITED**  
Client Code : J0092  
Date 18/07/2016  
Job No. 1607-1-171-726  
Booking No. RG1617/1/3196  
Plot No 2 Sector 32  
Gurgaon  
Haryana-122001  
Booking Date 05/07/2016  
Kind Attn:  
Customer Ref No. -  
Customer Ref Date 23/06/2016

Sample Description :  
ONE SAMPLE DESCRIBED AS TMT STEEL GRADE: FE-500D, MAKE: **JINDAL PANTHER**  
MANUFACTURER NAME / SOURCE: **JINDAL STEEL & POWER LIMITED**, 08 MM DIA. SUB:  
DEVELOPMENT OF SIX-LANE EASTERN PERIPHERAL EXPRESSWAY (NH NO. NE-II)-  
PACKAGE-III FROM KM 46+500 TO KM 71+000 IN THE STATE OF UTTAR PRADESH ON EPC  
MODE WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS  
(As Per IS: 1786-2008 with Amendment No. 2)

S.No. Tests	Observation	Requirement Grade FE-500D	Conformity	Protocol Adopted
<b>A. Chemical Tests (% By Mass)</b>				
1. Carbon	0.17	0.25 Max.	Yes	IS:228 Pt 1-2002
2. Sulfur	0.014	0.040 Max.	Yes	IS:228 Pt 9-2004
3. Phosphorous	0.022	0.040 Max.	Yes	IS:228 Pt 3-2002
4. Sulfur + Phosphorous	0.036	0.075 Max.	Yes	IS: 1786-2008
<b>B. Physical Tests</b>				
1. TS/YS ratio'	1.22	>= 1.10 but TS	Yes	IS: 1786-2008
Tensile Strength, N/mm <sup>2</sup>	673	not less than 565.0	Yes	IS: 1608-2005
2. Yield Stress, N/mm <sup>2</sup>	551	500 Min.	Yes	IS: 1608-2005
3. Elongation (%) (Gauge Length 5.65 Sq Root Area)	22.5	16.0 Min.	Yes	IS: 1608-2005
4. Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5. Reband Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6. Mass per metre run(Kg)	0.385	Not less than 0.363	Yes	IS: 1786-2008

*Pravind*  
AUTHORISED SIGNATORY  
EMPLOYEE CODE : 15065

GC-01(Rev-08)

Page 1 of 2

Phone : 91-11-27667267, 27667983, 27667860 Fax 91-11-27667676, 27667207  
See overleaf for terms & conditions

TEST CONDUCTED FOR 8mm in Fe 500 D



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(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India)  
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website : www.shriraminstitute.org  
E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE NO.: C1/0000048488

7. Deformation & Surface Characteristics				
a. Mean ribs area in mm <sup>2</sup> /mm length	1.28	0.96 Min.	Yes	IS: 1786-2008
b. Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	1.28	0.32 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 2 for Grade FE 500D w.r.t. above tests.  
Note:- TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

DOR: 05/07/2016  
DOC: 18/07/2016

*Pravind*  
AUTHORISED SIGNATORY  
EMPLOYEE CODE : 15065

GC-01(Rev-08)

Page 2 of 2

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## TEST CONDUCTED FOR 10mm in Fe 500 D



## SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

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An ISO - 9001, 14001 & OHSAS 18001 Certified InstituteWebsite : www.shriraminstitute.org  
E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE NO.: C1/0000048485

Issued To: **JINDAL STEEL & POWER LIMITED**  
 Client Code : J0092  
 PLOT NO 2 SECTOR 32  
 GURGAON  
 HARYANA-122001  
 Kind Attn:

Date 18/07/2016  
 Job No. 1607-1-171-727  
 Booking No. RG1617/1/3196  
 Booking Date 05/07/2016  
 Customer Ref No. -  
 Customer Ref Date 23/06/2016

## Sample Description :

ONE SAMPLE DESCRIBED AS TMT STEEL GRADE: FE-500D, MAKE: **JINDAL PANTHER**  
 MANUFACTURER NAME / SOURCE: **JINDAL STEEL & POWER LIMITED**, 10 MM DIA. SUB:  
 DEVELOPMENT OF SIX-LANE EASTERN PERIPHERAL EXPRESSWAY (NH NO. NE-II)-  
 PACKAGE-III FROM KM 46+500 TO KM 71+000 IN THE STATE OF UTTAR PRADESH ON EPC  
 MODE WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
 The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS  
(As Per IS: 1786-2008 with Amendment No. 2)

S.No. Tests	Observation	Requirement Grade FE-500D	Conformity	Protocol Adopted
<b>A. Chemical Tests</b> (% By Mass)				
1. Carbon	0.16	0.25 Max.	Yes	IS:228 Pt 1-2002
2. Sulfur	0.010	0.040 Max.	Yes	IS:228 Pt 9-2004
3. Phosphorous	0.019	0.040 Max.	Yes	IS:228 Pt 3-2002
4. Sulfur + Phosphorous	0.029	0.075 Max.	Yes	IS: 1786-2008
<b>B. Physical Tests</b>				
1. TS/YS ratio <sup>1</sup>	1.22	≥ 1.10 but TS	Yes	IS: 1786-2008
Tensile Strength, N/mm <sup>2</sup>	640	not less than 565.0	Yes	IS: 1608-2005
2. Yield Stress, N/mm <sup>2</sup>	525	500 Min.	Yes	IS: 1608-2005
3. Elongation (%) (Gauge Length 5.65 Sq Root Area)	24.0	16.0 Min.	Yes	IS: 1608-2005
4. Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5. Re bend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6. Mass per metre run(Kg)	0.613	Not less than 0.568	Yes	IS: 1786-2008

GC-01(Rev-05)

Page 1 of 2

*Pravind*  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE : 15065

Phone : 91-11-27667267, 27667983, 27667860 Fax : 91-11-27667676, 27667207  
 See overleaf for terms & conditions

## TEST CONDUCTED FOR 10mm in Fe 500 D



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E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE NO.: C1/0000048485

<b>7. Deformation &amp; Surface Characteristics</b>				
a. Mean ribs area in mm <sup>2</sup> /mm length	1.90	1.20 Min.	Yes	IS: 1786-2008
b. Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	1.90	0.40 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 2 for Grade FE 500D w.r.t. above tests.  
 Note:- TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

DOR: 05/07/2016  
 DOC: 18/07/2016

\*\*\*\*\*

GC-01(Rev-05)

Page 2 of 2

*Pravind*  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE : 15065

Phone : 91-11-27667267, 27667983, 27667860 Fax : 91-11-27667676, 27667207  
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## TEST CONDUCTED FOR 12mm in Fe 500 D



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E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE NO.: C1/0000048486

Issued To: **JINDAL STEEL & POWER LIMITED**  
Client Code : J0092  
PLOT NO 2 SECTOR 32  
GURGAON  
HARYANA-122001  
Kind Attn:

Date 18/07/2016  
Job No. 1607-1-171-728  
Booking No. RG1617/1/3196  
Booking Date 05/07/2016  
Customer Ref No. -  
Customer Ref Date 23/06/2016

Sample Description :  
ONE SAMPLE DESCRIBED AS TMT STEEL GRADE: FE-500D, MAKE: **JINDAL PANTHER**  
MANUFACTURER NAME / SOURCE: **JINDAL STEEL & POWER LIMITED**, 12 MM DIA. SUB:  
DEVELOPMENT OF SIX-LANE EASTERN PERIPHERAL EXPRESSWAY (NH NO. NE-II)-  
PACKAGE-III FROM KM 46+500 TO KM 71+000 IN THE STATE OF UTTAR PRADESH ON EPC  
MODE WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS  
(As Per IS: 1786-2008 with Amendment No. 2)

S.No. Tests	Observation	Requirement Grade FE-500D	Conformity	Protocol Adopted
<b>A. Chemical Tests (% By Mass)</b>				
1. Carbon	0.16	0.25 Max.	Yes	IS:228 Pt 1-2002
2. Sulfur	0.010	0.040 Max.	Yes	IS:228 Pt 9-2004
3. Phosphorous	0.020	0.040 Max.	Yes	IS:228 Pt 3-2002
4. Sulfur + Phosphorous	0.030	0.075 Max.	Yes	IS: 1786-2008
<b>B. Physical Tests</b>				
1. TS/YS ratio <sup>1</sup>	1.21	>= 1.10 but TS not less than	Yes	IS: 1786-2008
Tensile Strength, N/mm <sup>2</sup>	669	565.0	Yes	IS: 1608-2005
2. Yield Stress, N/mm <sup>2</sup>	552	500 Min.	Yes	IS: 1608-2005
3. Elongation (%) (Gauge Length 5.65 Sq Root Area)	23.7	16.0 Min.	Yes	IS: 1608-2005
4. Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5. Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6. Mass per metre run(Kg)	0.868	Not less than 0.835	Yes	IS: 1786-2008

*Pravins*  
AUTHORISED SIGNATORY  
EMPLOYEE CODE : 15064

GC-01(Rev-05)

Page 1 of 2

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## TEST CONDUCTED FOR 12mm in Fe 500 D



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E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE NO.: C1/0000048486

7. Deformation & Surface Characteristics				
a. Mean ribs area in mm <sup>2</sup> /mm length	2.28	1.80 Min.	Yes	IS: 1786-2008
b. Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	2.28	0.60 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 2 for Grade FE 500D w.r.t. above tests.  
Note:- TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

DOR: 05/07/2016  
DOC: 18/07/2016

*Pravins*  
AUTHORISED SIGNATORY  
EMPLOYEE CODE : 15065

GC-01(Rev-05)

Page 2 of 2

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## TEST CONDUCTED FOR 20mm in Fe 500 D



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TEST CERTIFICATE NO. : C1/0000048490

Issued To: **JINDAL STEEL & POWER LIMITED** Date: 18/07/2016  
 Client Code : J0092 Job No. 1607-1-171-730  
 PLOT NO 2 SECTOR 32 Booking No. RG1617/1/3196  
 GURGAON Booking Date 05/07/2016  
 HARYANA-122001 Customer Ref No. -  
 Kind Attn: Customer Ref Date 23/06/2016

## Sample Description :

ONE SAMPLE DESCRIBED AS TMT STEEL GRADE: FE-500D, MAKE: **JINDAL PANTHER**  
 MANUFACTURER NAME / SOURCE: **JINDAL STEEL & POWER LIMITED**, 20 MM DIA. SUB:  
 DEVELOPMENT OF SIX-LANE EASTERN PERIPHERAL EXPRESSWAY (NH NO. NE-II)-  
 PACKAGE-III FROM KM 46+500 TO KM 71+000 IN THE STATE OF UTTAR PRADESH ON EPC  
 MODE WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
 The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS  
(As Per IS: 1786-2008 with Amendment No. 2)

S.No. Tests	Observation	Requirement Grade FE-500D	Conformity	Protocol Adopted
<b>A. Chemical Tests (% By Mass)</b>				
1. Carbon	0.15	0.25 Max.	Yes	IS:228 Pt 1-2002
2. Sulfur	0.010	0.040 Max.	Yes	IS:228 Pt 9-2004
3. Phosphorous	0.023	0.040 Max.	Yes	IS:228 Pt 3-2002
4. Sulfur + Phosphorous	0.033	0.075 Max.	Yes	IS: 1786-2008
<b>B. Physical Tests</b>				
1. TS/YS ratio <sup>1</sup>	1.23	>= 1.10 but TS	Yes	IS: 1786-2008
Tensile Strength, N/mm <sup>2</sup>	625	not less than 565.0	Yes	IS: 1608-2005
2. Yield Stress, N/mm <sup>2</sup>	508	500 Min.	Yes	IS: 1608-2005
3. Elongation (%) (Gauge Length 5.65 Sq Root Area)	26.3	16.0 Min.	Yes	IS: 1608-2005
4. Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5. Reband Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6. Mass per metre run(Kg)	2.411	Not less than 2.371	Yes	IS: 1786-2008

*Pravind*  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE : 15065

GC-01(Rev-05)

Page 1 of 2

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## TEST CONDUCTED FOR 20mm in Fe 500 D



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E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE NO. : C1/0000048490

7. Deformation & Surface Characteristics				
a. Mean ribs area in mm <sup>2</sup> /mm length	4.13	3.40 Min.	Yes	IS: 1786-2008
b. Mean projected area of transverse ribs in mm <sup>2</sup> /mm length	4.13	1.13 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 2 for Grade FE 500D w.r.t. above tests.  
 Note:- TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

DOR: 05/07/2016  
 DOC: 18/07/2016

*Pravind*  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE : 15065

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## TEST CONDUCTED FOR 25mm in Fe 500 D



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TEST CERTIFICATE NO.: C1/0000048492

Issued To: **JINDAL STEEL & POWER LIMITED**  
Client Code : J0092  
PLOT NO 2 SECTOR 32  
GURGAON  
HARYANA-122001  
Kind Attn:

Date 18/07/2016  
Job No. 1607-1-171-731  
Booking No. RG1617/1/3196  
Booking Date 05/07/2016  
Customer Ref No. -  
Customer Ref Date 23/06/2016



## Sample Description :

ONE SAMPLE DESCRIBED AS TMT STEEL GRADE: FE-500D, MAKE: **JINDAL PANTHER**  
MANUFACTURER NAME / SOURCE: **JINDAL STEEL & POWER LIMITED**, 25 MM DIA. SUB:  
DEVELOPMENT OF SIX-LANE EASTERN PERIPHERAL EXPRESSWAY (NH NO. NE-II)-  
PACKAGE-III FROM KM 46+500 TO KM 71+000 IN THE STATE OF UTTAR PRADESH ON EPC.  
MODE WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS  
(As Per IS: 1786-2008 with Amendment No. 2)

S.No. Tests	Observation	Requirement Grade FE-500D	Conformity	Protocol Adopted
<b>A. Chemical Tests</b> (% By Mass)				
1. Carbon	0.14	0.25 Max.	Yes	IS:228 Pt 1-2002
2. Sulfur	0.011	0.040 Max.	Yes	IS:228 Pt 9-2004
3. Phosphorous	0.018	0.040 Max.	Yes	IS:228 Pt 3-2002
4. Sulfur + Phosphorous	0.029	0.075 Max.	Yes	IS: 1786-2008
<b>B. Physical Tests</b>				
1. TS/YS ratio <sup>a</sup>	1.21	≥ 1.10 but TS	Yes	IS: 1786-2008
Tensile Strength, N/mm <sup>2</sup>	680	not less than 565.0	Yes	IS: 1608-2005
2. Yield Stress, N/mm <sup>2</sup>	562	500 Min.	Yes	IS: 1608-2005
3. Elongation (%) (Gauge Length 5.65 Sq Root Area)	21.0	16.0 Min.	Yes	IS: 1608-2005
4. Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5. Rebind Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6. Mass per metre run(Kg)	3.802	Not less than 3.696	Yes	IS: 1786-2008

*Shouma S*  
AUTHORISED SIGNATORY  
EMPLOYEE CODE : 15065

GC-01(Rev-05)

Page 1 of 2

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## TEST CONDUCTED FOR 25mm in Fe 500 D



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TEST CERTIFICATE NO.: C1/0000048492

7. Deformation & Surface Characteristics				
a. Mean ribs area in mm <sup>2</sup> /mm length	5.12	4.25 Min.	Yes	IS: 1786-2008
b. Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	5.12	1.42 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 2 for Grade FE 500D w.r.t. above tests.  
Note:- TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

DOR: 05/07/2016  
DOC: 18/07/2016

\*\*\*\*\*

*Shouma S*  
AUTHORISED SIGNATORY  
EMPLOYEE CODE : 15065

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## TEST CONDUCTED FOR 32mm in Fe 500 D



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## TEST CERTIFICATE

NO.: C1/0000048493

## Issued To:

Client Code : J0092

JINDAL STEEL &amp; POWER LIMITED

PLOT NO 2 SECTOR 32

GURGAON

HARYANA-122001

Kind Attn:

## Sample Description :

ONE SAMPLE DESCRIBED AS TMT STEEL GRADE: FE-500D, MAKE: JINDAL PANTHER  
MANUFACTURER NAME / SOURCE: JINDAL STEEL & POWER LIMITED, 32 MM DIA. SUB:  
DEVELOPMENT OF SIX-LANE EASTERN PERIPHERAL EXPRESSWAY (NH NO. NE-II)-  
PACKAGE-III FROM KM 46+500 TO KM 71+000 IN THE STATE OF UTTAR PRADESH ON EPC  
MODE WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS  
(As Per IS: 1786-2008 with Amendment No. 2)

S.No. Tests	Observation	Requirement Grade FE-500D	Conformity	Protocol Adopted
<b>A. Chemical Tests (% By Mass)</b>				
1. Carbon	0.16	0.25 Max.	Yes	IS:228 Pt 1-2002
2. Sulfur	0.019	0.040 Max.	Yes	IS:228 Pt 9-2004
3. Phosphorous	0.025	0.040 Max.	Yes	IS:228 Pt 3-2002
4. Sulfur + Phosphorous	0.044	0.075 Max.	Yes	IS: 1786-2008
<b>B. Physical Tests</b>				
1. TS/YS ratio <sup>1</sup>	1.23	>= 1.10 but TS	Yes	IS: 1786-2008
Tensile Strength, N/mm <sup>2</sup>	684	not less than 565.0	Yes	IS: 1608-2005
2. Yield Stress, N/mm <sup>2</sup>	556	500 Min.	Yes	IS: 1608-2005
3. Elongation (%) (Gauge Length 5.65 Sq Root Area)	22.8	16.0 Min.	Yes	IS: 1608-2005
4. Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5. Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6. Mass per metre run(Kg)	6.162	Not less than 6.058	Yes	IS: 1786-2008

GC-01(Rev-05)

Page 1 of 2

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*Shrivind*  
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EMPLOYEE CODE : 15065

## TEST CONDUCTED FOR 32mm in Fe 500 D



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## TEST CERTIFICATE

NO.: C1/0000048493

7. Deformation & Surface  
Characteristics

a. Mean ribs area in mm <sup>2</sup> /mm length	5.78	5.44 Min.	Yes	IS: 1786-2008
b. Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	5.78	1.81 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 2 for Grade FE 500D w.r.t. above tests.  
Note:- TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

DOR: 05/07/2016

DOC: 18/07/2016

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*Shrivind*  
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EMPLOYEE CODE : 15065

## TEST CONDUCTED FOR 8mm in Fe 500D CRS

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TEST CERTIFICATE NO.: C1/0000015531

Issued To: Client Code : J0092  
**JINDAL STEEL & POWER LIMITED**  
PLOT NO 2 SECTOR 32  
GURGAON  
HARYANA-122001  
Kind Attn: MR. SAURABH AGARWAL

Date: 12/10/2015  
Job No. 1510-1-171-248  
Booking No. RG1516/1/6081  
Booking Date 05/10/2015  
Customer Ref No. JSPL/0002  
Customer Ref Date 22/09/2015

**Sample Description :**  
ONE SAMPLE DESCRIBED AS TMT REBAR MAKE: **JINDAL PANTHER** GRADE: CORROSION RESISTANCE STEEL SAMPLE NO.1: 8 MM WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH. The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**

S.No. Test Parameters	Observation	Protocol Adopted
1. Salt Spray Test (For 96 Hours)	No sign of corrosion was observed.	ASTM B 117

Conditions:-  
1. Medium 5% NaCl in distilled water.  
2. pH of the solution 6.5 to 7.2.  
3. Chamber Temperature 35° +/- 2° C.  
4. Air Supply 69 & 172 KN/m<sup>2</sup>.

D.O.R.: 05/10/2015  
D.O.C.: 12/10/2015

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*Pravin*  
AUTHORISED SIGNATORY  
EMPLOYEE CODE : 5065

GC-01(Rev-04) Page 1 of 1

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## TEST CONDUCTED FOR 16mm in Fe 500D CRS

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TEST CERTIFICATE NO.: C1/0000015533

Issued To: Client Code : J0092  
**JINDAL STEEL & POWER LIMITED**  
PLOT NO 2 SECTOR 32  
GURGAON  
HARYANA-122001  
Kind Attn: MR. SAURABH AGARWAL

Date: 12/10/2015  
Job No. 1510-1-171-249  
Booking No. RG1516/1/6081  
Booking Date 05/10/2015  
Customer Ref No. JSPL/0002  
Customer Ref Date 22/09/2015

**Sample Description :**  
ONE SAMPLE DESCRIBED AS TMT REBAR MAKE: **JINDAL PANTHER** GRADE: CORROSION RESISTANCE STEEL SAMPLE NO.2: 16 MM WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH. The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**

S.No. Test Parameters	Observation	Protocol Adopted
1. Salt Spray Test (For 96 Hours)	No sign of corrosion was observed.	ASTM B 117

Conditions:-  
1. Medium 5% NaCl in distilled water.  
2. pH of the solution 6.5 to 7.2.  
3. Chamber Temperature 35° +/- 2° C.  
4. Air Supply 69 & 172 KN/m<sup>2</sup>.

D.O.R.: 05/10/2015  
D.O.C.: 12/10/2015

\*\*\*\*\*

*Pravin*  
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EMPLOYEE CODE : 5065

GC-01(Rev-04) Page 1 of 1

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## TEST CONDUCTED FOR 32mm in Fe 500D CRS

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**TEST CERTIFICATE** NO.: C1/0000015534

Issued To: **JINDAL STEEL & POWER LIMITED** Date: 12/10/2015  
Client Code : J0092 Job No. 1510-1-171-250  
PLOT NO 2 SECTOR 32 Booking No. RG1516/1/6081  
GURGAON Booking Date 05/10/2015  
HARYANA-122001 Customer Ref No. JSPL0002  
Kind Attn: MR. SAURABH AGARWAL Customer Ref Date 22/09/2015

**Sample Description :**  
ONE SAMPLE DESCRIBED AS TMT REBAR MAKE: **JINDAL PANTHER** GRADE: CORROSION RESISTANCE STEEL SAMPLE NO.3: 32 MM WAS RECEIVED.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**

S.No. Test Parameters	Observation	Protocol Adopted
1. Salt Spray Test (For 96 Hours)	No sign of corrosion was observed.	ASTM B 117

Conditions:-  
1. Medium 5% NaCl in distilled water.  
2. pH of the solution 6.5 to 7.2.  
3. Chamber Temperature 35° +/- 2° C.  
4. Air Supply 69 & 172 KN/m<sup>2</sup>.

D.O.R.: 05/10/2015  
D.O.C.: 12/10/2015

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EMPLOYEE CODE : 5065

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## TEST CONDUCTED FOR 8mm in Fe 500 S

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An ISO - 9001:2008 Certified Institute

**TEST CERTIFICATE** 000367227

Issued to : **JINDAL STEEL & POWER LIMITED** J.O.No. 504-171-3296  
PLOT NO. 2, SECTOR-32, Reg.No. 1372830  
GURGAON - 122001,HARYANA Date 12-05-2015  
Your Ref.No. GC-01 (REV-04)  
JSPL0001/DATED 1  
6.04.2015  
Date 16.04.2015

Kind Attn: MR. SAURABH AGARWAL  
Sample Particulars :  
One Sample described as **JINDAL PANTHER** TMT Rebar Sample, Size: 8 mm, Grade FE 500D was received.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**  
(As Per IS: 1786-2008 with amendment No.2)

S.No.	Tests	Observation	Requirement Grade Fe-500S	Conformity	Protocol Adopted
<b>A. Chemical Tests (% by wt.)</b>					
1.	Carbon	0.16	0.25 Max.	Yes	IS:228 Pt 1-2002
2.	Sulfur	0.018	0.040 Max	Yes	IS:228 Pt 9-2004
3.	Phosphorus	0.020	0.040 Max	Yes	IS:228 Pt 3-2002
4.	Sulfur + Phosphorus	0.038	0.075 Max	Yes	IS: 1786-2008
<b>B. Physical Tests</b>					
1.	T S/YS ratio <sup>1</sup>	1.28	≥ 1.25	Yes	IS: 1786-2008
2.	Yield Stress, N/mm <sup>2</sup>	587	500 - 625	Yes	IS: 1608-2005
3.	Elongation (%) (Gauge Length 5.65 Sq Root Area)	25.6	18.0 Min.	Yes	IS: 1608-2005
4.	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5.	Rebend test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6.	Mass per metre run (Kg)	0.381	Not less than 0.363	Yes	IS: 1786-2008
<b>Deformations &amp; Surface Characteristics</b>					
a.	Mean ribs area in mm <sup>2</sup> /mm length	1.36	0.96 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transverse ribs in mm <sup>2</sup> /mm length	1.36	0.32 Min.	Yes	IS: 1786-2008

Remarks: The sample conforms to IS: 1786-2008 with amendment No.2 Grade **FE 500S** w.r.t. above tests.  
Note: 1 - TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

D.O.R.: 18/04/2015  
D.O.C.: 12/05/2015

*Shriram*  
AUTHORISED SIGNATORY  
(EMPLOYEE CODE: 5065)

19, University Road, Delhi - 110007. Ph: 91-11-27667267, 27667983, 27667860  
E-Mail: sriddhi@vsnl.com Website: http://www.shriraminstitute.org Fax: 91-11-27667676, 27667207 P.T.O.

## TEST CONDUCTED FOR 10mm in Fe 500 S

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**TEST CERTIFICATE** 000367228

Issued to : **JINDAL STEEL & POWER LIMITED**  
PLOT NO. 2, SECTOR-32,  
GURGAON - 122001, HARYANA

J.O.No. 504-171-3297  
Reg.No. 1372830  
Date 12-05-2015  
GC-01 (REV-04)  
Your Ref.No. JSPL/0001/DATED 1  
6.04.2015  
Date 16.04.2015

Kind Attn: MR. SAURABH AGARWAL  
Sample Particulars :  
One Sample described as **JINDAL PANTHER TMT Rebar** Sample, Size: 10 mm, Grade FE 500D was received.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**  
(As Per IS: 1786-2008 with amendment No.2)

S.No.	Tests	Observation	Requirement Grade Fe-500S	Conformity	Protocol Adopted
<b>A. Chemical Tests (% by wt.)</b>					
1.	Carbon	0.17	0.25 Max.	Yes	IS:228 Pt 1-2002
2.	Sulfur	0.018	0.040 Max	Yes	IS:228 Pt 9-2004
3.	Phosphorus	0.017	0.040 Max	Yes	IS:228 Pt 3-2002
4.	Sulfur + Phosphorus	0.035	0.075 Max	Yes	IS: 1786-2008
<b>B. Physical Tests</b>					
1.	T S/YS ratio <sup>1</sup>	1.29	≥ 1.25	Yes	IS: 1786-2008
2.	Yield Stress, N/mm <sup>2</sup>	555	500 - 625	Yes	IS: 1608-2005
3.	Elongation (%) (Gauge Length 5.65 Sq Root Area)	28.0	18.0 Min.	Yes	IS: 1608-2005
4.	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5.	Rebend test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6.	Mass per metre run (Kg)	0.608	Not less than 0.568	Yes	IS: 1786-2008
<b>Deformations &amp; Surface Characteristics</b>					
a.	Mean ribs area in mm <sup>2</sup> /mm length	2.06	1.20 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transverse ribs in mm <sup>2</sup> /mm length	2.06	0.40 Min.	Yes	IS: 1786-2008

Remarks: The sample conforms to IS: 1786-2008 with amendment No.2 Grade **FE 500 S** w.r.t. above tests.  
Note: 1 - TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

\*\*\*\*\*

D.O.R.: 18/04/2015  
D.O.C.: 12/05/2015

*Shourab*  
AUTHORISED SIGNATORY  
(EMPLOYEE CODE: 5065)

19, University Road, Delhi - 110007.  
E-Mail: [sridhi@vsnl.com](mailto:sridhi@vsnl.com) Website: <http://www.shriraminstitute.org>  
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## TEST CONDUCTED FOR 12mm in Fe 500 S

**SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH**  
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**TEST CERTIFICATE** 000367229

Issued to : **JINDAL STEEL & POWER LIMITED**  
PLOT NO. 2, SECTOR-32,  
GURGAON - 122001, HARYANA

J.O.No. 504-171-3298  
Reg.No. 1372830  
Date 12-05-2015  
GC-01 (REV-04)  
Your Ref.No. JSPL/0001/DATED 1  
6.04.2015  
Date 16.04.2015

Kind Attn: MR. SAURABH AGARWAL  
Sample Particulars :  
One Sample described as **JINDAL PANTHER TMT Rebar** Sample, Size: 12 mm, Grade FE 500D was received.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**  
(As Per IS: 1786-2008 with amendment No.2)

S.No.	Tests	Observation	Requirement Grade Fe-500S	Conformity	Protocol Adopted
<b>A. Chemical Tests (% by wt.)</b>					
1.	Carbon	0.17	0.25 Max.	Yes	IS:228 Pt 1-2002
2.	Sulfur	0.012	0.040 Max	Yes	IS:228 Pt 9-2004
3.	Phosphorus	0.016	0.040 Max	Yes	IS:228 Pt 3-2002
4.	Sulfur + Phosphorus	0.028	0.075 Max	Yes	IS: 1786-2008
<b>B. Physical Tests</b>					
1.	T S/YS ratio <sup>1</sup>	1.27	≥ 1.25	Yes	IS: 1786-2008
2.	Yield Stress, N/mm <sup>2</sup>	557	500 - 625	Yes	IS: 1608-2005
3.	Elongation (%) (Gauge Length 5.65 Sq Root Area)	23.7	18.0 Min.	Yes	IS: 1608-2005
4.	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5.	Rebend test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6.	Mass per metre run (Kg)	0.860	Not less than 0.835	Yes	IS: 1786-2008
<b>Deformations &amp; Surface Characteristics</b>					
a.	Mean ribs area in mm <sup>2</sup> /mm length	2.38	1.80 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transverse ribs in mm <sup>2</sup> /mm length	2.38	0.60 Min.	Yes	IS: 1786-2008

Remarks: The sample conforms to IS: 1786-2008 with amendment No.2 Grade **FE 500 S** w.r.t. above tests.  
Note: 1 - TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

\*\*\*\*\*

D.O.R.: 18/04/2015  
D.O.C.: 12/05/2015

*Shourab*  
AUTHORISED SIGNATORY  
(EMPLOYEE CODE: 5065)

19, University Road, Delhi - 110007.  
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# TEST CONDUCTED FOR 36mm in Fe 500 S



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**000367230**

**Issued to :**  
JINDAL STEEL & POWER LIMITED,  
PLOT NO. 2, SECTOR-32,  
GURGAON - 122001, HARYANA

**Kind Attn:** MR. SAURABH AGARWAL

**Sample Particulars :**  
One Sample described as **JINDAL PANTHER TMT Rebar** Sample, Size: 36 mm, Grade FE 500D was received.

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**J.O.No.** 504-171-3299  
**Reg.No.** 1372830  
**Date** 12-05-2015  
**GC-01 (REV-04)**  
**Your Ref.No.** JSPL/0001/DATED I  
**Date** 6.04.2015  
**16.04.2015**

### TEST RESULTS

(As Per IS: 1786-2008 with amendment No.2)

S.No.	Tests	Observation	Requirement Grade Fe-500S	Conformity	Protocol Adopted
<b>A. Chemical Tests (% by wt.)</b>					
1.	Carbon	0.17	0.25 Max.	Yes	IS:228 Pt 1-2002
2.	Sulfur	0.018	0.040 Max	Yes	IS:228 Pt 9-2004
3.	Phosphorous	0.015	0.040 Max	Yes	IS:228 Pt 3-2002
4.	Sulfur + Phosphorous	0.033	0.075 Max	Yes	IS: 1786-2008
<b>B. Physical Tests</b>					
1.	T S/YS ratio <sup>1</sup>	1.32	≥ 1.25	Yes	IS: 1786-2008
2.	Yield Stress - N/mm <sup>2</sup>	512	500 - 625	Yes	IS: 1608-2005
3.	Elongation (%) (Gauge Length 5.65 Sq Root Area)	25.0	18.0 Min.	Yes	IS: 1608-2005
4.	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5.	Rebend test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6.	Mass per metre run (Kg)	8.004	Not less than 7.670	Yes	IS: 1786-2008
<b>Deformations &amp; Surface Characteristics</b>					
7.	Mean ribs area in mm <sup>2</sup> /mm length	8.37	6.12 Min.	Yes	IS: 1786-2008
8.	Mean projected area of transverse ribs in mm <sup>2</sup> /mm length	8.37	2.04 Min.	Yes	IS: 1786-2008

Remarks: The sample conforms to IS: 1786-2008 with amendment No.2 Grade **FE 500 S** w.r.t. above tests.  
Note: 1 - TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

\*\*\*\*\*

  
**AUTHORISED SIGNATORY**  
 (EMPLOYEE CODE: 5065)

D.O.R.: 18/04/2015  
D.O.C.: 12/05/2015

Ph: 91-11-27667267, 27667983, 27667860  
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E-Mail: [sridhii@vsnl.com](mailto:sridhii@vsnl.com) Website: <http://www.shriraminstitute.org>

P.T.O.

# TEST CONDUCTED FOR 8mm in Fe 550 D



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### TEST CERTIFICATE

NO. : C1/0000091371

**Issued To:**  
Client Code : J0092  
JINDAL STEEL & POWER LIMITED  
PLOT NO 2 SECTOR 32  
GURUGRAM  
HARYANA-122001  
Kind Attn: MR SAURABH AGARWAL

**Sample Description :**  
ONE SAMPLE TMT BAR GRADE: FE-550D, MAKE: JINDAL PANTHER, 8 MM DIA WAS RECEIVED.

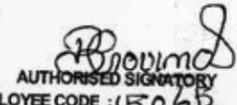
The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**Date** 18/07/2017  
**Job No.** 1707-1-171-1064  
**Booking No.** RG1718/1/3549  
**Booking Date** 11/07/2017  
**Customer Ref No.** -  
**Customer Ref Date** 10/07/2017

### TEST RESULTS

(As Per IS: 1786-2008 with Amendment No. 2)

S.No.	Test Parameters	Observation	Requirement Grade FE-550D	Conformity	Protocol Adopted
<b>A. Chemical Tests (% By Mass)</b>					
1.	Carbon	0.18	0.25 Max.	Yes	IS: 228 Pt 1-1987 RA2012
2.	Sulfur	0.011	0.040 Max.	Yes	IS: 228 Pt 9-1989 RA2014
3.	Phosphorous	0.021	0.040 Max.	Yes	IS: 228 Pt 3-1987 RA2012
4.	Sulfur + Phosphorous	0.032	0.075 Max.	Yes	IS: 1786-2008
<b>B. Physical Tests</b>					
1.	TS/YS ratio <sup>1</sup>	1.13	≥ 1.08 but TS	Yes	IS: 1786-2008
	Tensile Strength, N/mm <sup>2</sup>	724	not less than 600.0	Yes	IS: 1608-2005
2.	Yield Stress, N/mm <sup>2</sup>	640	550 Min.	Yes	IS: 1608-2005
3.	Elongation (%) (Gauge Length 5.65 Sq Root Area)	28.2	14.5 Min.	Yes	IS: 1608-2005
4.	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5.	Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6.	Mass per metre run(Kg)	0.374	Not less than 0.363	Yes	IS: 1786-2008

  
**AUTHORISED SIGNATORY**  
 EMPLOYEE CODE : 15065

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## TEST CONDUCTED FOR 8mm in Fe 550 D



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**TEST CERTIFICATE**      NO. : C1/0000091371

7. Deformation & Surface Characteristics

a.	Mean ribs area in mm <sup>2</sup> /mm length	1.10	0.96 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	1.10	0.32 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 2 for Grade FE 550D w.r.t. above tests.  
 Note:- TS/YS ratio refers to ratio of tensile strength to the yield stress of the test piece.

\*\*\*\*\*

DOR: 11/07/2017  
 DOC: 18/07/2017

CC : E-MAIL: saurabh.agarwal@jindalsteel.com

  
**AUTHORISED SIGNATORY**  
 EMPLOYEE CODE : 150615

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## TEST CONDUCTED FOR 10mm in Fe 550 D



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**TEST CERTIFICATE**      NO : C1/0000135129

Issued To : Client Code : (NODA01G0667)  
 GIL-TPL (JV)  
 TATA PROJECTS LIMITED, EDFCC - DADRI - KHURJA,  
 LOT-302, 2ND FLOOR, URBTECH, NPX TOWER, C-1,  
 SEC-153

NOIDA  
 UTTAR PRADESH-201310  
 Kind Attn: MR. MAQSOODUR R. KHAN,CPM

Date : 23-07-2018  
 Job No : 1807-1-MET-1582  
 Booking No : RG18191/4376  
 Booking Date : 12-07-2018  
 Customer Ref No : GIL-TPL/EDFCCIL/NOIDA/ENGL0T/302/1622  
 Customer Ref Dt : 04-07-2018

**Sample Detail :**  
 ONE SAMPLE DESCRIBED AS REINFORCEMENT STEEL 10 MM DIA, GRADE FE 550 D, MAKE : JINDAL PANTHER, HEAT NO. 082783 BUNDLE NO. 173, WEIGHT (KG), 2967, DATE: 21.06.2018, SHIFT: A, NO. OF BARS: 410. SUB: DESIGN-BUILD LUMP SUM CONTRACT FOR DADRI -KHURJA SECTION (APPROXIMATELY 46 ROUTE KM OF DOUBLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR-CONTRACT PACKAGE: LOT 302-TESTING OF STEEL BARS OF SIZES (8MM, 10 MM, 12MM, 16 MM, 20 MM, 25 MM & 32 MM). REF.: CONTRACT AGREEMENT: HQ/EN/EC/D-B/DADRI - KHURJA/CP-302 DATED 29.8.2016 AGENCY: JINDAL STEEL & POWER LTD. WAS RECEIVED.

**Job No : 1807-1-MET-1582**  
 The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
 The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**  
 (As Per IS: 1786-2008 with Amendment No. 3)

S.No.	Parameter	Observation	Requirement	Conformity	Protocol Adopted
<b>Grade FE-550D</b>					
A.	Chemical Test % by mass				
i	Carbon	0.17	0.25 Max.	Yes	IS:228 (Pt-1)1987,RA-2012
ii	Sulphur	0.015	0.040 Max.	Yes	IS-228 (Pt-9)1989,RA-2014
iii	Phosphorous	0.018	0.040Max.	Yes	IS-228 (Pt-3)1987,RA-
iv	Sulphur+Phosphorous	0.033	0.075 Max.	Yes	IS:1786-2008

  
**AUTHORISED SIGNATORY**  
 EMPLOYEE CODE: 5124

GC-01(Rev-05)

1/2

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## TEST CONDUCTED FOR 10mm in Fe 550 D

TEST CERTIFICATE NO : C1/0000135129

B. Physical Tests					
1	TS/YS ratio <sup>1</sup>	1.21	≥ 1.08 but TS	Yes	IS: 1786-2008
	Tensile Strength, N/mm <sup>2</sup>	684.6	not less than 600.0	Yes	IS: 1608-2005
2	Yield Stress, N/mm <sup>2</sup>	567.2	550 Min.	Yes	IS: 1608-2005
3	Elongation (%) (Gauge Length 5.65 Sq Root Area)	26.5	14.5 Min.	Yes	IS: 1608-2005
4	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5	Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6	Mass per metre run (Kg)	0.602	Not less than 0.568	Yes	IS: 1786-2008
7 Deformation & Surface Characteristics					
a.	Mean ribs area in mm <sup>2</sup> /mm length	1.90	1.20 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	1.90	0.40 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 3 for Grade FE 550D w.r.t. above tests  
 Note:- TS/YS ratio<sup>1</sup> refers to ratio of tensile strength to the yield stress of the test piece.  
 Encloser: Photograph attached.

DOR: 12/07/2018  
 DOC: 23/07/2018

\*\*\*\*\*

*[Signature]*  
 AUTHORIZED SIGNATORY  
 EMPLOYEE CODE: 5124

## TEST CONDUCTED FOR 12mm in Fe 550 D

TEST CERTIFICATE NO : C1/0000135130

Issued To : Client Code : (NODA0100667) GIL-TPL (JV) TATA PROJECTS LIMITED, EDFCC - DADRI -KHURJA, LOT-302, 2ND FLOOR, URBTECH, NPX TOWER, C-1, SEC-153	Date : 23-07-2018 Job No : 1807-1-MET-1583 Booking No : RG1819/14376 Booking Date : 12-07-2018 Customer Ref No. : GIL-TPL/EDFCC/IL/NOIDA/ENGL/LOT 302/1622 Customer Ref Dt. : 04-07-2018				
NOIDA UTTAR PRADESH-201310 Kind Attn: MR. MAQSOODUR R. KHAN,CPM					
Sample Detail : ONE SAMPLE DESCRIBED AS REINFORCEMENT STEEL 12 MM DIA, GRADE FE 550 D, MAKE : JINDAL PANTHER, HEAT NO. B 82/21 BUNDLE NO. 79, WEIGHT (KG). 3047, DATE: 04/06/2018, SHIFT: C, NO. OF BARS: 290, SUB: DESIGN-BUILD LUMP SUM CONTRACT FOR DADRI -KHURJA SECTION (APPROXIMATELY 46 ROUTE KM OF DOUBLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR-CONTRACT PACKAGE: LOT 302-TESTING OF STEEL BARS OF SIZES (8MM, 10 MM, 12MM, 16 MM, 20 MM, 25 MM & 32 MM). REF.: CONTRACT AGREEMENT: HQ/EN/EC/D-B/DADRI - KHURJA/CP-302 DATED 29.8.2016. AGENCY: JINDAL STEEL & POWER LTD. WAS RECEIVED.					
Job No : 1807-1-MET-1583 The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH. The sample particulars provided in the Test Certificate are based on the declaration by the Party.					
<b>TEST RESULTS</b> (As Per IS: 1786-2008 with Amendment No. 3)					
S.No.	Parameter	Observation	Requirement	Conformity	Protocol Adopted
A. Chemical Test % by mass Grade FE-550D					
i	Carbon	0.18	0.25 Max.	Yes	IS:228 (Pt-1)1987,RA-2012
ii	Sulphur	0.010	0.040 Max.	Yes	IS:228 (Pt-9)1989,RA-2014
iii	Phosphorous	0.013	0.040Max.	Yes	IS:228 (Pt-3)1987,RA
iv	Sulphur+Phosphorous	0.023	0.075 Max.	Yes	IS:1786-2008

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*[Signature]*  
 AUTHORIZED SIGNATORY  
 EMPLOYEE CODE: 5124

TEST CONDUCTED FOR 12mm in Fe 550 D



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TEST CERTIFICATE NO : C1/0000135130



B. Physical Tests					
1	TS/YS ratio <sup>1</sup>	1.16	>= 1.08 but TS	Yes	IS: 1786-2008
	Tensile Strength, N/mm <sup>2</sup>	667.5	not less than 600.0	Yes	IS: 1608-2005
2	Yield Stress, N/mm <sup>2</sup>	574.1	550 Min.	Yes	IS: 1608-2005
3	Elongation (%) (Gauge Length 5.65 Sq Root Area)	23.3	14.5 Min.	Yes	IS: 1608-2005
4	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5	Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6	Mass per metre run (Kg)	0.882	Not less than 0.835	Yes	IS: 1786-2008
7	Deformation & Surface Characteristics				
a.	Mean ribs area in mm <sup>2</sup> /mm length	2.36	1.80 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	2.36	0.60 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 3 for Grade FE 550D w.r.t. above tests.  
 Note:- TS/YS ratio<sup>1</sup> refers to ratio of tensile strength to the yield stress of the test piece.  
 Encloser: Photograph attached.

DOR: 12/07/2018  
 DOC: 23/07/2018

*[Signature]*  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE: ( 5124 )

GC-01(Rev.05) 2/2

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TEST CONDUCTED FOR 18mm in Fe 550 D



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TEST CERTIFICATE NO : C1/0000135131



B. Physical Tests					
1	TS/YS ratio <sup>1</sup>	1.19	>= 1.08 but TS	Yes	IS: 1786-2008
	Tensile Strength, N/mm <sup>2</sup>	699.8	not less than 600.0	Yes	IS: 1608-2005
2	Yield Stress, N/mm <sup>2</sup>	588.2	550 Min.	Yes	IS: 1608-2005
3	Elongation (%) (Gauge Length 5.65 Sq Root Area)	25.3	14.5 Min.	Yes	IS: 1608-2005
4	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5	Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6	Mass per metre run (Kg)	1.548	Not less than 1.485	Yes	IS: 1786-2008
7	Deformation & Surface Characteristics				
a.	Mean ribs area in mm <sup>2</sup> /mm length	3.12	2.40 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	3.12	0.80 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 3 for Grade FE 550D w.r.t. above tests.  
 Note:- TS/YS ratio<sup>1</sup> refers to ratio of tensile strength to the yield stress of the test piece.  
 Encloser: Photograph attached.

DOR: 12/07/2018  
 DOC: 23/07/2018

*[Signature]*  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE: ( 5124 )

GC-01(Rev.05) 2/2

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MS-C1 (Rev. 02)

# TEST CONDUCTED FOR 16mm in Fe 550 D



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TEST CERTIFICATE NO : C1/0000135131

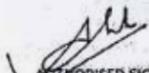
Issued To : Client Code : (NODAAIG0667) GIL-TPL (JV) TATA PROJECTS LIMITED, EDFCC - DADRI - KHURJA, LOT-302, 2ND FLOOR, URBTECH, NPX TOWER, C-1, SEC-153 NOIDA UTTAR PRADESH-201310 Kind Attn: MR. MAQSOODUR R. KHAN,CPM	Date : 23-07-2018 Job No : 1807-1-MET-1584 Booking No : RG1819/14376 Booking Date : 12-07-2018 Customer Ref No : GIL-TPL/EDFCCIL/NOIDA/ENGL/OT-302/1622 Customer Ref Dt. : 04-07-2018	
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Sample Detail :  
 ONE SAMPLE DESCRIBED AS REINFORCEMENT STEEL 16 MM DIA, GRADE FE 550 D, MAKE : JINDAL PANTHER, HEAT NO. B82405 BUNDLE NO. 21, WEIGHT (KG). 3422, DATE: 31.05.2018. SHIFT: A, NO. OF BARS: 185. SUB: DESIGN-BUILD LUMP SUM CONTRACT FOR DADRI -KHURJA SECTION (APPROXIMATELY 46 ROUTE KM OF DOUBLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR-CONTRACT PAKAGE: LOT 302-TESTING OF STEEL BARS OF SIZES (8MM, 10 MM, 12MM, 16 MM, 20 MM, 25 MM & 32 MM). REF.: CONTRACT AGREEMENT: HQ/EN/EC/D-B/DADRI - KHURJA/CP-302 DATED 29.8.2016. AGENCY: JINDAL STEEL & POWER LTD. WAS RECEIVED.

Job No : 1807-1-MET-1584  
 The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
 The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**  
 (As Per IS: 1786-2008 with Amendment No. 3)

S.No.	Parameter	Observation	Requirement Grade FE-550D	Conformity	Protocol Adopted
A.	Chemical Test % by mass				
i	Carbon	0.17	0.25 Max.	Yes	IS:228 (Pt-1)1987,RA-2012
ii	Sulphur	0.011	0.040 Max.	Yes	IS:228 (Pt-9)1989,RA-2014
iii	Phosphorous	0.014	0.040Max.	Yes	IS:228 (Pt-3)1987,RA-
iv	Sulphur+Phosphorous	0.025	0.075 Max.	Yes	IS:1786-2008

  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE: (5124)

GC-01(Rev-05) 1/2

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SRIC1 (Rev.02)

# TEST CONDUCTED FOR 20mm in Fe 550 D



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TEST CERTIFICATE NO : C1/0000135132

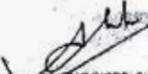
Issued To : Client Code : (NODAAIG0667) GIL-TPL (JV) TATA PROJECTS LIMITED, EDFCC - DADRI - KHURJA, LOT-302, 2ND FLOOR, URBTECH, NPX TOWER, C-1, SEC-153 NOIDA UTTAR PRADESH-201310 Kind Attn: MR. M. MAQSOODUR R. KHAN,CPM	Date : 23-07-2018 Job No : 1807-1-MET-1585 Booking No : RG1819/14376 Booking Date : 12-07-2018 Customer Ref No : GIL-TPL/EDFCCIL/NOIDA/ENGL/OT-302/1622 Customer Ref Dt. : 04-07-2018	
---	--	---

Sample Detail :  
 ONE SAMPLE DESCRIBED AS REINFORCEMENT STEEL 20 MM DIA, GRADE FE 550 D, MAKE : JINDAL PANTHER, HEAT NO.A80997A\_12, BUNDLE NO. 025, WEIGHT (KG). 3494, DATE: 15.06.2018, SHIFT: A, NO. OF BARS: 120. SUB: DESIGN-BUILD LUMP SUM CONTRACT FOR DADRI -KHURJA SECTION (APPROXIMATELY 46 ROUTE KM OF DOUBLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR-CONTRACT PAKAGE: LOT 302-TESTING OF STEEL BARS OF SIZES (8MM, 10 MM, 12MM, 16 MM, 20 MM, 25 MM & 32 MM). REF.: CONTRACT AGREEMENT: HQ/EN/EC/D-B/DADRI - KHURJA/CP-302 DATED 29.8.2016. AGENCY: JINDAL STEEL & POWER LTD. WAS RECEIVED.

Job No : 1807-1-MET-1585  
 The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
 The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**  
 (As Per IS: 1786-2008 with Amendment No. 3)

S.No.	Parameter	Observation	Requirement Grade FE-550D	Conformity	Protocol Adopted
A.	Chemical Test % by mass				
i	Carbon	0.18	0.25 Max.	Yes	IS:228 (Pt-1)1987,RA-2012
ii	Sulphur	0.010	0.040 Max.	Yes	IS:228 (Pt-9)1989,RA-2014
iii	Phosphorous	0.010	0.040Max.	Yes	IS:228 (Pt-3)1987,RA-
iv	Sulphur+Phosphorous	0.020	0.075 Max.	Yes	IS:1786-2008

  
 AUTHORISED SIGNATORY  
 EMPLOYEE CODE: (5124)

GC-01(Rev-05) 1/2

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## TEST CONDUCTED FOR 20mm in Fe 550 D



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TEST CERTIFICATE NO : C1/0000135132



B. Physical Tests					
1	TS/YS ratio <sup>1</sup>	1.23	>= 1.08 but TS not less than	Yes	IS: 1786-2008
	Tensile Strength, N/mm <sup>2</sup>	684.3	600.0	Yes	IS: 1608-2005
2	Yield Stress, N/mm <sup>2</sup>	555.2	550 Min.	Yes	IS: 1608-2005
3	Elongation (%) (Gauge Length 5.65 Sq. Root Area)	24.2	14.5 Min.	Yes	IS: 1608-2005
4	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5	Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6	Mass per metre run (Kg)	2.432	Not less than 2.371	Yes	IS: 1786-2008
7 Deformation & Surface Characteristics					
a.	Mean ribs area in mm <sup>2</sup> /mm length	4.18	3.40 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	4.18	1.13 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 3 for Grade FE 550D w.r.t. above tests.  
 Note:- TS/YS ratio<sup>1</sup> refers to ratio of tensile strength to the yield stress of the test piece.  
 Encloser: Photograph attached.

DOR: 12/07/2018  
 DOC: 23/07/2018

AUTHORISED SIGNATORY  
 EMPLOYEE CODE: ( 5124 )

GC-01(Rev-05) 2/2

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## TEST CONDUCTED FOR 25mm in Fe 550 D



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TEST CERTIFICATE NO : C1/0000135134



Issued To :  
 Client Code : (NODA01G0667) Date : 23-07-2018  
 GIL-TPL (JV) Job No : 1807-1-MET-1586  
 TATA PROJECTS LIMITED, EDFCC - DADRI -KHURJA, Booking No : RO1819/14376  
 LOT-302, 2ND FLOOR, URBTECH, NPX TOWER, C-1, Booking Date : 12-07-2018  
 SEC-153 Customer Ref No. : GIL-TPL/EDFCCIL/NOIDA/ENG/LOT 302/1622  
 Customer Ref Dt. : 04-07-2018  
 NOIDA  
 UTTAR PRADESH-201310  
 Kind Attn: MR. MAQSOODUR R. KHAN,CPM

Sample Detail :  
 ONE SAMPLE DESCRIBED AS REINFORCEMENT STEEL 25 MM DIA, GRADE FE 550 D, MAKE : JINDAL PANTHER, HEAT NO. A80895 BUNDLE NO. 58, WEIGHT (KG). 3439, DATE: 03/06/2018, SHIFT: A, NO. OF BARS: 75. SUB: DESIGN-BUILD LUMP SUM CONTRACT FOR DADRI -KHURJA SECTION (APPROXIMATELY 46 ROUTE KM OF DOUBLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR-CONTRACT PACKAGE: LOT 302-TESTING OF STEEL BARS OF SIZES (8MM, 10 MM, 12MM, 16 MM, 20 MM, 25 MM & 32 MM). REF.: CONTRACT AGREEMENT: HQ/EN/EC/D-B/DADRI - KHURJA/CP-302 DATED 29.8.2016. AGENCY: JINDAL STEEL & POWER LTD. WAS RECEIVED.

Job No : 1807-1-MET-1586

The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
 The sample particulars provided in the Test Certificate are based on the declaration by the Party.

TEST RESULTS  
 (As Per IS: 1786-2008 with Amendment No. 3)

S.No.	Parameter	Observation	Requirement Grade FE-550D	Conformity	Protocol Adopted
A. Chemical Test % by mass					
i	Carbon	0.17	0.25 Max.	Yes	IS:228 (Pt-1)1987,RA-2012
ii	Sulphur	0.011	0.040 Max.	Yes	IS:228 (Pt-9)1989,RA-2014
iii	Phosphorous	0.010	0.040Max.	Yes	IS:228 (Pt-3)1987,RA-
iv	Sulphur+Phosphorous	0.021	0.075 Max.	Yes	IS:1786-2008

AUTHORISED SIGNATORY  
 EMPLOYEE CODE: ( 5124 )

GC-01(Rev-05) 1/2

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## TEST CONDUCTED FOR 25mm in Fe 550 D


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TEST CERTIFICATE

NO : C1/0000135134

B. Physical Tests					
1	TS/YS ratio <sup>1</sup>	1.19	>= 1.08 but TS	Yes	IS: 1786-2008
	Tensile Strength, N/mm <sup>2</sup>	731.2	not less than 600.0	Yes	IS: 1608-2005
2	Yield Stress, N/mm <sup>2</sup>	615.1	550 Min.	Yes	IS: 1608-2005
3	Elongation (%) (Gauge Length 5.65 Sq Root Area)	19.2	14.5 Min.	Yes	IS: 1608-2005
4	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5	Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6	Mass per metre run (Kg)	3.838	Not less than 3.696	Yes	IS: 1786-2008
7 Deformation & Surface Characteristics					
a.	Mean ribs area in mm <sup>2</sup> /mm length	5.26	4.25 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transverse ribs in mm <sup>2</sup> /mm length	5.26	1.42 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 3 for Grade FE 550D w.r.t. above tests.  
 Note:- TS/YS ratio<sup>1</sup> refers to ratio of tensile strength to the yield stress of the test piece.  
 Encloser: - Photograph attached.

DOR: 12/07/2018  
 DOC: 23/07/2018

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AUTHORISED SIGNATORY  
 EMPLOYEE CODE: (5124)

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2/2

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## TEST CONDUCTED FOR 32mm in Fe 550 D


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TEST CERTIFICATE

NO : C1/0000135138

Issued To :		Date :	
Client Code : (NODA01G0667)		23-07-2018	
GIL-TPL (JV)		Job No : 1807-1-MET-1587	
TATA PROJECTS LIMITED, EDFCC - DADRI - KHURJA, LOT-302, 2ND FLOOR, URBTECH, NPX TOWER, C-1, SEC-153		Booking No : RG1819/14376	
		Booking Date : 12-07-2018	
		Customer Ref No. : GIL-TPL/EDFCC/L/NOIDA/ENG/LOT 302/1622	
		Customer Ref Dt. : 04-07-2018	
NOIDA UTTAR PRADESH-201310 Kind Attn: MR. MAQSOODUR R. KHAN,CPM			

Sample Detail :  
 ONE SAMPLE DESCRIBED AS REINFORCEMENT STEEL 32 MM DIA, GRADE FE 550 D, MAKE : JINDAL PANTHER, HEAT NO. B82581 BUNDLE NO.09, WEIGHT (KG). 3440, DATE: 12.06.2018, SHIFT: B, NO. OF BARS: 46. SUB: DESIGN-BUILD LUMP SUM CONTRACT FOR DADRI - KHURJA SECTION (APPROXIMATELY 46 ROUTE KM OF DOUBLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR-CONTRACT PACKAGE: LOT 302-TESTING OF STEEL BARS OF SIZES (8MM, 10 MM, 12MM, 16 MM, 20 MM, 25 MM & 32 MM). REF.: CONTRACT AGREEMENT: HQ/EN/EC/D-B/DADRI - KHURJA/CP-302 DATED 29.8.2016 AGENCY: JINDAL STEEL & POWER LTD. WAS RECEIVED.

Job No : 1807-1-MET-1587  
 The sampling was not carried out by SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH.  
 The sample particulars provided in the Test Certificate are based on the declaration by the Party.

**TEST RESULTS**  
 (As Per IS: 1786-2008 with Amendment No. 3)

S.No.	Parameter	Observation	Requirement Grade FE-550D	Conformity	Protocol Adopted
A. Chemical Test % by mass					
I	Carbon	0.19	0.25 Max.	Yes	IS:228 (Pt-1)1987,RA-2012
II	Sulphur	0.012	0.040 Max.	Yes	IS:228 (Pt-9)1989,RA-2014
III	Phosphorous	0.010	0.040Max.	Yes	IS:228 (Pt-3)1987,RA-
IV	Sulphur+Phosphorous	0.022	0.075 Max.	Yes	IS:1786-2008

AUTHORISED SIGNATORY  
 EMPLOYEE CODE: (5124)

GC-01(Rev-05)

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## TEST CONDUCTED FOR 32mm in Fe 550 D



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E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE

NO : C1/0000135138



#### B. Physical Tests

1	TS/YS ratio <sup>1</sup>	1.20	>= 1.08 but TS not less than	Yes	IS: 1786-2008 IS: 1608-2005
	Tensile Strength, N/mm <sup>2</sup>	701.0	600.0	Yes	
2	Yield Stress, N/mm <sup>2</sup>	581.8	550 Min.	Yes	IS: 1608-2005
3	Elongation (%) (Gauge Length 5.65 Sq. Root Area)	18.1	14.5 Min.	Yes	IS: 1608-2005
4	Bend Test	Satisfactory	To satisfy the test	Yes	IS: 1599-2012
5	Rebend Test	Satisfactory	To satisfy the test	Yes	IS: 1786-2008
6	Mass per metre run (Kg)	6.320	Not less than 6.058	Yes	IS: 1786-2008
7	Deformation & Surface Characteristics				
a.	Mean ribs area in mm <sup>2</sup> /mm length	5.98	5.44 Min.	Yes	IS: 1786-2008
b.	Mean projected area of transvers ribs in mm <sup>2</sup> /mm length	5.98	1.81 Min.	Yes	IS: 1786-2008

Remarks:- The sample conforms to IS: 1786-2008 Amendment No. 3 for Grade FE 550D w.r.t. above tests.

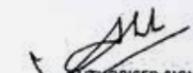
Note:- TS/YS ratio<sup>1</sup> refers to ratio of tensile strength to the yield stress of the test piece.

Encloser: - Photograph attached.

DOR: 12/07/2018

DOC: 23/07/2018

\*\*\*\*\*

  
AUTHORISED SIGNATORY  
EMPLOYEE CODE: ( 5124 )

GC-01 (Rev.05)

2/2

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See overleaf for terms & conditions

# ANNEXURE-04

## BIS LICENSE FOR JSPL TMT REBARS



भारतीय मानक ब्यूरो

भुवनेश्वर शाखा कार्यालय

(उपरोक्त समस्त, खाद्य एवं सार्वजनिक वितरण विभाग, भारत सरकार)

BUREAU OF INDIAN STANDARDS

Bhubaneswar Branch Office

(MINISTRY OF CONSUMER AFFAIRS, FOOD & PUBLIC DISTRIBUTION, GOVT OF INDIA)

\*For training needs, please contact

National Institute of Training for Standardization, Noida, E mail : nits@bis.gov.in

6 डा मंजिल, गृह निर्माण भवन  
सचिवालय मार्ग, भुवनेश्वर - 751001

6th Floor, Gruha Nirman Bhawan  
Sachivalaya Marg Bhubaneswar - 751001

दूरभाष PHONE - 0674-2390847 / 2391727/2393039

ईमेल : bhbo@bis.gov.in

Website : www.bis.gov.in



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

LICENCE ENDORSEMENT SHEET

CM/L-No	Name of the licensee and address	Name of the product	ISS No.
5200040268	M/s Jindal Steel and Power Limited SH-63, Chhendipada Road PO:- Nisha Dist:- Angul Odisha-759111	High Strength Deformed Steel Bar (TMT) and Wires for Concrete reinforcement	1786 : 2008

**ENDORSEMENT NO. 04 Dated : 17.07.2017**

Renewed for a period of Two Years from Eighth July, Two Thousand Seventeen to Seventh July, Two Thousand Nineteen.

Other terms and conditions of the licence remain the same.

**SCIENTIST-E & HEAD, BIS**

अक्षय कुमार पुरोहित

A. K. PUROHIT

वैज्ञानिक-ई

SCIENTIST-E

भारतीय मानक ब्यूरो

Bureau of Indian Standards

भुवनेश्वर

BHUBANESWAR

मुख्यालय : मानक भवन, ९, बाहादुरशाह जफर मार्ग, नई दिल्ली - 110002

HEADQUARTERS : MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG, NEW DELHI - 110002

## BIS LICENSE FOR JSPL TMT REBARS



भारतीय मानक ब्यूरो

Bureau of Indian Standards

The National Standards Body of India

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सचिवालय मार्ग, भुवनेश्वर - 751001

6<sup>th</sup> Floor, Gruha Nirman Bhawan,

Sachivalaya Marg, Bhubaneswar - 751001

दूरभाष / Phone - 0674-2394193 / 2391727

ई मेल / Email bhbo@bis.gov.in

Attachment to Licence No. CM/L- 5200040268

CM/L-	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
5200040268	M/s Jindal Steel and Power Limited SH-63, Chhendipada Road PO:- Nisha Dist:- Angul Odisha-759111	High Strength Deformed Steel Bar(TMT) and Wires for Concrete reinforcement	1786 : 2008

Endorsement No 05 Dated 26-09-2018

The following addition/deletion in the scope of licence has (have) been approved by the Bureau with effect from 19.09.2018.

**High Strength Deformed Steel Bar(TMT) and Wires for Concrete reinforcement as per IS 1786 : 2008 for following Grades/ Sizes :-**

Grade - Fe 550, Size-36 mm to 40 mm

Grade - Fe 550 D, Size - 36 mm to 40 mm

Grade - Fe 600, Size - 8mm to 32 mm

Consequent upon the above changes, the revised scope of licence in Column (2) of the table in first schedule of the Licence alongwith the Standard Mark in Column (1) of second schedule is amended as follows :

Grade -Fe 500, Size- 8 mm to 40mm

Grade- Fe 500 D,Size- 8mm to 40 mm

Grade- Fe 550, Size- 8 mm to 40 mm

Grade- Fe 550 D, Size- 8 mm to 40 mm

Grade- Fe 600, Size- 8 mm to 32 mm

Other terms conditions of the licence remain the same.

**(Satish Kumar )  
Scientist-F & Head**

सतीश कुमार

Satish Kumar

वैज्ञानिक - एफ एवं प्रमुख

Scientist - F & Head

भारतीय मानक ब्यूरो

Bureau of Indian Standards

भुवनेश्वर

Bhubaneswar

मुख्यालय : मानक भवन, 9 बाहादुरशाह जफर मार्ग, नई दिल्ली - 110002  
Headquarter : Manak Bhawan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

## BIS LICENSE FOR JSPL TMT REBARS



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

Address: Bungalow No-F/10-A  
Namdih Road-P.O.-  
Burmamines/Jamshedpur 831007 Dist-  
East Singhbhum/Jharkhand  
Phones : +91-657-2345498,2345481  
Fax :  
E-mail: jdbo@bis.gov.in  
web : http://www.bis.org.in

Jamshedpur Branch Office

### REGISTERED A.D

Our Ref: JDBO /L- 5550868

Dated: 28 Jul 2018

Subject : RENEWAL OF CERTIFICATION MARKS LICENCE NO. CM/L- 5550868  
AS PER IS 1786 : 2008

M/s Jindal Steel & Power Limited  
Balkudra Patratu,  
Distt : Ramgarh  
Jharkhand-829143

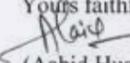
Dear Sir,

With reference to your application dated - for renewal of the above mentioned Certification Marks Licence, we are pleased to inform you that it has been renewed from **01/08/2018 to 31/07/2019**. It may please be noted that your licence shall expire at the end of the above mentioned period. You are, therefore, requested to send your application for its renewal at least two months before the expiry of the licence.

The endorsement sheet regarding renewal of licence is enclosed. This may be annexed to the original licence document available with you.

You are also requested to subscribe to our monthly Technical Journal 'Standards India' and also make use to publicise your product through advertisement. The details of the advertisement charges and subscription rates are available in our website [www.bis.org.in](http://www.bis.org.in)

Thanking you.

Yours faithfully,  
  
(Aabid Hussain)  
Scientist-B

## BIS LICENSE FOR JSPL TMT REBARS



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

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Jamshedpur 831007  
Fax : Dist-East Singhbhum  
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Web : http://www.bis.org.in

Jamshedpur Branch Office

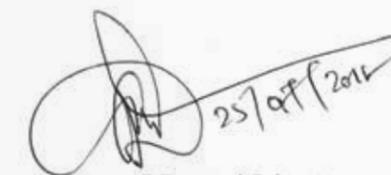
### ATTACHMENT TO LICENCE NO. CM/L- 5550868

CML NO	NAME OF THE LICENSEE WITH ADDRESS	PRODUCT	IS NO
5550868	Jindal Steel & Power Limited Balkudra, Patratu Ramgarh Jharkhand-829143	High strength deformed steel bars and wires for concrete reinforcement	IS 1786 : 2008

ENDORSEMENT NO. 15 Dated 25/07/2018

Renewed for a further period of one year from First August Two Thousand and Eighteen to Thirty First July Two Thousand and Nineteen.

Other terms and conditions of Licence remain the same.

  
25/07/2018

(S Damarai Selvan)  
Scientist-E & Head  
S. D. SELVAN  
Scientist-E & Head  
BUREAU OF INDIAN STANDARDS  
Jamshedpur Branch Office (JDBO)  
P.O.-Burmamines, Jamshedpur-831007

## BIS LICENSE FOR JSPL TMT REBARS



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

Jharkhand Branch Office

Address :  
Bungalow No-F/10-A  
Namdih Road  
P.O.-Burmamines  
Jamshedpur 831007  
Phones : +91-657-2345498,2345481  
Fax : Dist-East Sinehbhum  
E-mail : jdbo@bis.gov.in  
Web : http://www.bis.org.in

ATTACHMENT TO LICENCE NO. CML/- 5550868

CML NO	NAME OF THE LICENSEE WITH ADDRESS	PRODUCT	IS NO
5550868	JINDAL STEEL & POWER LIMITED BALKUDRA PATRATU RAMGARH JHARKHAND-829143	High strength deformed steel bars and wires for concrete reinforcement	IS 1786 : 2008

ENDORSEMENT NO. 11 Dated 02/06/2016

Endorsement No. 10 dated 01/06/2016 may be read as following :

The following additional (sizes/types/grades etc.) has (have) been included in Columns(2) of the first schedule and column (1) of the Second Schedule of the Licence along with the Standard Mark in Column (1) of First Schedule with effect from Twenty Fourth May Two Thousand and Sixteen.

Grade- Fe 550 D, 6 mm, from 10 mm up to and including 32 mm and 40 mm

Other terms and conditions of Licence remain the same.

(J.Majhi)

Scientist-E

जगन्नाथ माझी /Jagannath Majhi  
वैज्ञानिक-ई / Scientist-E  
भारतीय मानक ब्यूरो / Bureau of Indian Standards  
जमशेदपुर-831007 / Jamshedpur-831007

## BIS LICENSE FOR JSPL TMT REBARS



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ATTACHMENT TO LICENCE NO. CML/- 5550868

CML NO	NAME OF THE LICENSEE WITH ADDRESS	PRODUCT	IS NO
5550868	JINDAL STEEL & POWER LIMITED BALKUDRA PATRATU RAMGARH Ramgarh Jharkhand-829143	High strength deformed steel bars and wires for concrete reinforcement	IS 1786 : 2008

ENDORSEMENT NO. 9 Dated 09/03/2016

The following additional (sizes/types/grades etc.) has (have) been included in Columns(2) of the first schedule and column (1) of the Second Schedule of the Licence along with the Standard Mark in Column (1) of First Schedule with effect from Ninth March Two Thousand and Sixteen.

Grade Fe 550 D and sizes 8 mm and 36 mm

Other terms and conditions of Licence remain the same.

(J.Majhi)

Scientist-E

जगन्नाथ माझी /Jagannath Majhi  
वैज्ञानिक-ई / Scientist-E  
भारतीय मानक ब्यूरो / Bureau of Indian Standards  
जमशेदपुर-831007 / Jamshedpur-831007

## BIS LICENSE FOR JSPL TMT REBARS



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

Address : namdih road, post office-burmamines,  
jamshedpur, dist-east singhbhum  
jharkhand  
831007

Phones : 0657-2345481

Fax : 0657-2345498

E-mail : ioj@bis.org.in

Web : http://www.bis.org.in

Jamshedpur Sub Branch Office

ATTACHMENT TO LICENCE NO. CML/- 5550868

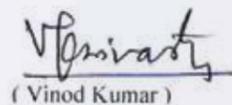
CML NO	NAME OF THE LICENSEE WITH ADDRESS	PRODUCT	IS NO
5550868	JINDAL STEEL & POWER LIMITED BALKUDRA PTRATU RAMGARH Ramgarh Jharkhand 829143	High strength deformed steel bars and wires for concrete reinforcement	IS 1786 : 2008

ENDORSEMENT NO. 7 Dated 18/09/2014

The following additional (sizes/types/grades etc.) has (have) been included in Columns(2) of the first schedule and column (1) of the the Second Schedule of the Licence alongwith the Standard Mark in Column (1) of First Schedule with effect from Eighteenth September Two Thousand and Fourteen.

Fe 500 S, Size 6 mm upto and including 40 mm  
With this inclusion the total varieties covered under the licence as follows:  
Fe 500 D, size 6 mm upto and including 40 mm  
Fe 500 S, size 6 mm upto & including 40 mm  
Fe 600 ,size 8 mm upto & including 40 mm

Other terms and conditions of Licence remain the same.

  
( Vinod Kumar )

SCIENTIST-B

विनोद कुमार  
VINOD KUMAR  
वैज्ञानिक-बी  
Scientist - B  
भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS  
जमशेदपुर / Jamshedpur (831007)

## BIS LICENSE FOR JSPL TMT REBARS



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS

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P.O.-Burmamines

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Jamshedpur 831007

Fax : Dist-East Singhbhum

E-mail : jdbo@bis.gov.in

Web : http://www.bis.org.in

Jamshedpur Branch Office

ATTACHMENT TO LICENCE NO. CM/L-5550868

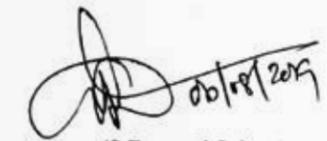
CML	NAME OF THE LICENSEE WITH FACTORY ADDRESS	NAME OF THE PRODUCT	INDIAN STANDARD NO.
5550868	M/s Jindal Steel & Power Limited Balkudra, Patratu Ramgarh-829143 Jharkhand	High strength deformed steel bars and wires for concrete reinforcement	IS 1786 : 2008

ENDORSEMENT NO. 16 Dated 06/08/2019

Whereas, the Licence was valid upto Thirty First July Two Thousand and Nineteen.

Now consequent upon Renewal, the validity of the licence given in schedule of the Endorsement No 15 dated 25/07/2018, has been extended from First August Two Thousand and Nineteen to Thirty First July Two Thousand and Twenty .

Other conditions of Licence remain the same.

  
(S Damarai Selvan)

Scientist-E & Head

Scientist-E & Head  
BUREAU OF INDIAN STANDARDS  
Jamshedpur Branch Office (10/10)  
P.O.-Burmamines, Jharkhand-831007

## BIS LICENSE FOR JSPL TMT REBARS



**भारतीय मानक ब्यूरो**  
BUREAU OF INDIAN STANDARDS  
The National Standards Body of India

601 मॉडर्न, गृह निर्माण भवन  
सचिवालय मार्ग भुवनेश्वर - 751001  
6<sup>th</sup> Floor, Gruha Nirman Bhawan,  
Sachivalaya Marg, Bhubaneswar- 751001  
दूरभाष / Phone - 0674-2394193 / 2391727  
ई-मेल / Email: bhbo@bis.gov.in

पंजीकृत / पावती

हमारा संदर्भ : BHBO/CM/L- 5200040268

दिनांक: 22-07-2019

विषय: प्रमाणन मुहर लाइसेंस संख्या सी एम/एल- 5200040268 का नवीकरण आई एस- 1786 : 2008

M/s Jindal Steel and Power Ltd.  
SH-63, Chhendipada Road  
PO:- Nisha  
Dist:- Angul  
Odisha-759111

महोदय,

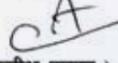
कृपया अपने नवीकरण के संदर्भ में भेजे गए आवेदन पत्र दिनांक 06.07.2019 का अवलोकन करें। हमें यह जानकारी देते हुए प्रसन्नता है कि आपके प्रमाणन लाइसेंस का दिनांक 08/07/2019 से 07/07/2021 तक नवीकरण हो गया है।

कृपया ध्यान दें कि यह लाइसेंस उपरोक्त लिखी अवधि के बाद समाप्त हो जाएगा, अतः आपसे अनुरोध है कि आप अपना लाइसेंस नवीकरण कराने के लिए आवेदन पत्र, नवीकरण आवेदन शुल्क, वार्षिक शुल्क तथा मुहरांकन शुल्क के साथ अगले नवीकरण की तिथि से कम से कम एक मास पूर्व भेजें।

लाइसेंस नवीकरण की पृष्ठांकन शीट संख्या- 06 संलग्न है। इसे कृपया आपके पास उपलब्ध मूल लाइसेंस के साथ जोड़ लें।

धन्यवाद

संलग्नक: यथोक्त

भवदीय,  
  
( सतीश कुमार )  
वैज्ञानिक-एफ एवं प्रमुख

मुख्यालय : मानक भवन, 9 बहादुरशाह जफर मार्ग, नई दिल्ली - 110002  
Headquarters : Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

## BIS LICENSE FOR JSPL TMT REBARS



**भारतीय मानक ब्यूरो**  
BUREAU OF INDIAN STANDARDS  
The National Standards Body of India

601 मॉडर्न, गृह निर्माण भवन  
सचिवालय मार्ग भुवनेश्वर - 751001  
6<sup>th</sup> Floor, Gruha Nirman Bhawan,  
Sachivalaya Marg, Bhubaneswar- 751001  
दूरभाष / Phone - 0674-2394193/2391727  
ई-मेल / Email: bhbo@bis.gov.in

Attachment to Licence No.CM/L- 5200040268

CM/L-No	Name of the licensee And address	Name of the Product	ISS No.
5200040268	M/s Jindal Steel and Power Ltd. SH-63, Chhendipada Road PO:- Nisha Dist:- Angul Odisha-759111	High Strength Deformed Steel Bar (TMT) and Wires for Concrete reinforcement	1786 : 2008

**ENDORSEMENT NO. 06 : Date :** 22-07-2019

Whereas, the licence was valid upto: 07.07.2019,

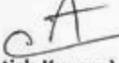
Now, consequent upon renewal, the validity of the licence given in first schedule of the original licence/endorsement No. 04 has been extended from 08/07/2019 to 07/07/2021.

Consequent upon the revision of rate of marking fee, Column (2) of the Second Schedule of the licence has been revised as under with effect from **Twenty-sixth April, Two Thousand Eighteen**.

Unit = 1 Tonne  
Unit Rate of Marking Fee:-  
Rs.3.00 (For All Units)

With the minimum marking fee of Rs.1,05,000.00 for an operative period of one year subject to such concessions as may be admissible.

Other terms and conditions of Licence remain the same.

  
( Satish Kumar )  
Scientist-F & Head

सतीश कुमार  
Satish Kumar  
वैज्ञानिक-एफ एवं प्रमुख  
Scientist-F & Head  
भारतीय मानक ब्यूरो  
Bureau of Indian Standards  
भुवनेश्वर

मुख्यालय : मानक भवन, 9 बहादुरशाह जफर मार्ग, नई दिल्ली - 110002  
Headquarters : Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002

## BIS LICENSE FOR JSPL TMT REBARS



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BUREAU OF INDIAN STANDARDS

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CML NO	NAME OF THE LICENSEE WITH ADDRESS	PRODUCT	IS NO
5550868	JINDAL STEEL & POWER LIMITED BALKUDRA PTRATU RAMGARH Ramgarh Jharkhand 829143	High strength deformed steel bars and wires for concrete reinforcement	IS 1786 : 2008

ENDORSEMENT NO. 7 Dated 18/09/2014

The following additional (sizes/types/grades etc.) has (have) been included in Columns(2) of the first schedule and column (1) of the the Second Schedule of the Licence alongwith the Standard Mark in Column (1) of First Schedule with effect from Eighteenth September Two Thousand and Fourteen.

Fe 500 S, Size 6 mm upto and including 40 mm

With this inclusion the total varieties covered under the licence as follows:

Fe 500 D, size 6 mm upto and including 40 mm

Fe 500 S, size 6 mm upto & including 40 mm

Fe 600 ,size 8 mm upto & including 40 mm

Other terms and conditions of Licence remain the same.

( Vinod Kumar )

SCIENTIST-B

विनोद कुमार  
VINOD KUMAR  
वैज्ञानिक-बी  
Scientist - B  
भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS  
जमशेदपुर / Jamshedpur (831007)

ANNEXURE-05

# CERTIFICATE OF APPRECIATION

जी. मोहन कुमार  
G. Mohan Kumar



सचिव  
इस्पात मंत्रालय  
भारत सरकार  
उद्योग भवन, नई दिल्ली  
**SECRETARY**  
**MINISTRY OF STEEL**  
**GOVERNMENT OF INDIA**  
**UDYOG BHAWAN, NEW DELHI-110**  
TEL.: 23063912  
FAX : 23063489  
e-mail : secy-steel@nic.in

**D.O. No. 14(1)/2013-TW (Pt. File)**  
**27<sup>th</sup> May, 2014**

Dear Shri Uppal,

I am glad to inform you that the process of evaluation of Integrated Steel Plants in India for the assessment year 2012-2013 has been completed and the Panel of Judges (POJs) have recommended that Jindal Steel and Power Limited, Raigarh Works may be awarded "Certificate of Appreciation for Maximum Incremental Improvement" for the assessment year 2012. The Ministry of Steel is pleased to intimate you that Government has accepted the recommendations of the Panel of Judges and decided to award the Certificate of Appreciation and a cash award of Rs. 25 lakhs to Jindal Steel & Power Ltd.

2. I congratulate you personally and the entire management and workforce of JSPL, Raigarh on this achievement. The basic objective of the Certificate of Appreciation is to give recognition to outstanding performance in the vital sector of the national economy and I am sure this "Certificate" will greatly motivate the JSPL collective and will inspire them to achieve several new benchmarks in efficiency and productivity in the coming years.

3. The date, time and venue of the award function will be intimated to you separately.

With regards,

Yours sincerely,

(G. Mohan Kumar)

Shri Ravi Uppal,  
Managing Director  
Jindal Steel & Power Ltd.  
Jindal Centre, Bhikaji Cama Place  
New Delhi 110066

## Operational Yards

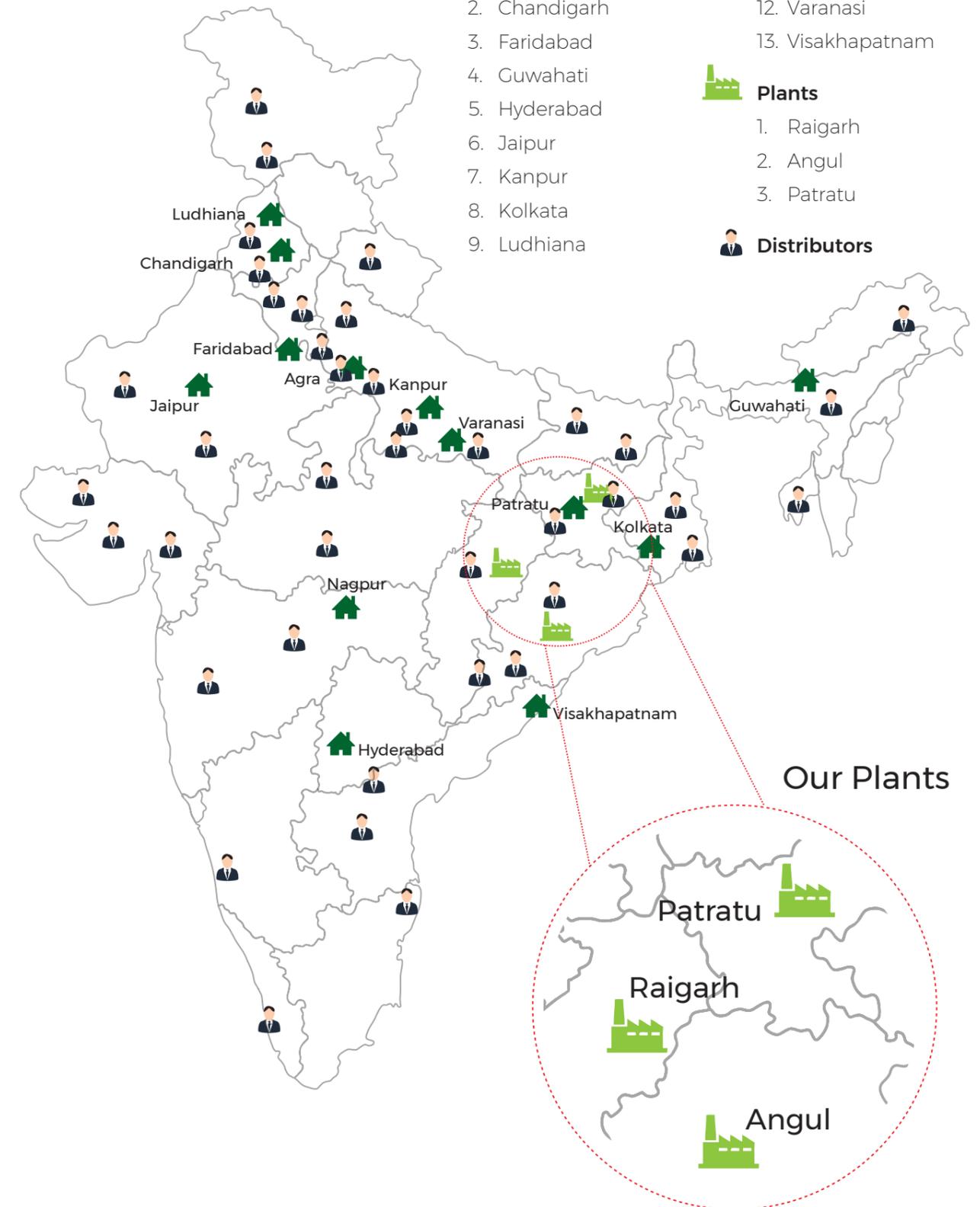
1. Agra
2. Chandigarh
3. Faridabad
4. Guwahati
5. Hyderabad
6. Jaipur
7. Kanpur
8. Kolkata
9. Ludhiana

## Plants

1. Raigarh
2. Angul
3. Patratu

## Distributors

10. Nagpur
11. Patratu
12. Varanasi
13. Visakhapatnam



A black panther is shown in profile, looking out from a dark, textured opening. The background is a bright, glowing orange and yellow light, possibly a fire or a sunset, which illuminates the scene. The panther's fur is dark and sleek, and its eyes are a striking yellow. The overall mood is intense and dramatic.

Our advanced  
processes under  
expert supervision  
make all the  
difference