E-Auction Catalogue: Auction conducted by mjunction services ltd

E-AUCTION OF D-BLAST FURNACE OF TATA STEEL JAMSHEDPUR /SEP'20

BEING SOLD ON "AS-IS-WHERE-IS" & "NO-COMPLAINT" BASIS

Mandate Number:	VJ20214086
Seller:	Tata Steel Limited
Auction website:	www.metaljunction.com
e-Auction Date & Time:	**29TH September 2020 at 3:00 PM**
Inspection Date & Time:	**3RD – 22ND September 2020**

CONTACT DETAILS MJUNCTION:

PROJECT MANAGER: **BIDYUT GHOSH (8336939651)** **E-Mail ID**: **bidyut.ghosh@mjunction.in**
CONTACT PERSON FOR INSPECTION: **Manash Mandal (8873002763) & Manjinder Singh (7605090375)**

For Inspection of the BLAST FURNACE, interested bidders need to share the **Expression of Interest for Inspection** (On page 36) with mjunction **1 WEEK** prior to the site visit. EOI has to be mailed at: **bidyut.ghosh@mjunction.in**

AUCTION ROOM NO.: 033 - 66031760-61, 033 - 66031763-72, 033 - 44091760-61, 033 - 44091763-72

CONTACT DETAILS FOR TATA STEEL POST SALES MNGT SYSTEM AT MJUNCTION

Post Auction Related Contact Details		
Area	**Contact No**	**Email Id**
Lot Confirmation Related	033-44091804/44091849	
Payment Related	033-44091807/8336988819	**mjbpo.group@mjunction.in**
Delivery Order related	033-44091806/8336988821	
Material Value Refund Related	033-66011719/44091719/8336988825	
Refund Related	033-44091803/66106048/66106326	
TCS Related	033-44091804/44091849	
Payment Deviation/Disablement in Tata Steel	033-66031759/44091759/66031789/44091789	**mjbpo.group@mjunction.in**

CIN	L27100MH1907PLC000260

Collection of Delivery Order-Tata Steel-Jamshedpur	0657-6519985/7033098848	**mjbpo.group@mjunction.in**	
Collection of Delivery Order for Tata Steel-Kalinganagar	7328820748/7328804998		
For time bound resolution of unresolved issues log into our customer care portal	Type in www.metaljunction.com> Go to "Important Links" > Click on "Customer Complaints"> Log in with your user id and password and write the details of issue.		

For Any Unresolved Issues:

Contact mjunction Jamshedpur : Bidyut Ghosh: bidyut.ghosh@mjunction.in OR Manash Mandal: mandal.manash@mjunction.in

For Any Unresolved Issues beyond Two (02) Days Mail to :

mjunction Jamshedpur: Anup Chand Lal: anup.lal@mjunction.in

FSD CONTACT DETAILS

FSD	Base location	Indicative Territory	Contact Details	Email Id
Vinod Yadav	Mumbai	Maharashtra, Goa	9920516150	Yadav.Vinod@mjunction.in
Manjinder Singh	Mandi Govindgarh	Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir	7605090375	Singh.Manjinder@mjunction.in
Mitesh Giradakar	Bhilai	Chhattisgarh, Madhya Pradesh	7596040406	Mitesh.Giradkar@mjunction.in
Indranil Dutta	Rourkela	Orissa, Jharkhand	7596058556	Indranil.Dutta@mjunction.in
Prabhat Singh	Delhi	Delhi, Uttar Pradesh, Uttarkhand	7596059533	Prabhat.Singh@mjunction.in
Soumen Chakraborty	Kolkata	West Bengal, Bihar, all North-east states	7605090372	Chakraborty.soumen@mjunction.in
Anup Gunashekar	Bangalore	Tamil Nadu, Kerala, Karnataka, Andhra Pradesh, Telangana	7605080992	Gunashekar.Anup@mjunction.in

CIN	L27100MH1907PLC000260

MATERIAL DESCRIPTION:

MATERIAL DESCRIPTION	UOM	QUANTITY	GST	TCS
SALE OF ALL MACHINERY ITEMS (MECHANICAL, ELECTRICAL, C&I ETC) INCLUDING STRUCTURAL ITEMS OF D-BLAST FURNACE	RSPLOT	1	18%	1%

Intrastate Sale: - CGST & SGST: 50% each of GST Rate.
Interstate Sale: - IGST: GST Rate as applicable.

BLAST FURNACE MODERNIZATION:

D Blast furnace was originally designed and installed in 1922 by M/s Perin and Marshall. It started in 1922 with an average daily production rate of 500 tons per day approximately and was again rebuilt and enlarged in 1953. It has gone through 12 rebuilding / relining with an average campaign life of 7.5 years. The last Relining was undertaken in 1998-99 and has completed 14 years, which is record campaign life in terms of life. In 1998-99 the Upgraded facilities such as two tap holes, drilling machine for both the taphole, hydraulic mud gun for first taphole, non-drainable trough at first taphole, soft water system for cooling members, carbon hearth, top gas analyzer, stove automation etc. were installed.

- **Status of its Operational history in its present running campaign.**

TIMELINE	REMARKS
Dec 1998 – Jan 1999 (66 days)	Complete Relining
Oct 2003 (32 days)	Stack Repair
1st Nov 2005 to 15th Dec 2005 (45 days)	Mid -term stack repair
14th Nov 2008 – 31st May 2010	Stopped due to excess Hot metal
18th June 2011- 6th July 2011	Stopped due to excess Hot metal
6th April 2012- 16th Jan 2013	Stopped due to excess Hot metal
9th March 2013-20th March 2013	Stopped due to excess Hot metal
Dec 2012	D1 stove damage (refractory dislodged)
5th July 2013-7th August 2013	Stopped due to excess Hot metal

BLAST FURNACE DESIGN:

DESCRIPTION	UNITS	DESIGN (NORMAL SMOOTH RUNNING)
FURNACE PROPER		
Production	tpd	1800-2000 (Avg./ Peak)
Working Volume	m3	1011
Useful Volume	m3	1132
No. of Tuyeres	No.	14
Coke Rate	kg/thm	570
Coal Rate PCI	kg/thm	35
Oxygen Enrichment	%	6
Top Pressure	psi	Nil
FURNACE TOP EQUIPMENT		2 Bell type
Revolving Distributor		yes
Variable Throat Armour		yes
BLAST SYSTEM		
Hot Blast Volume at Bustle Main	Nm3/hr	75000
Hot Blast Pressure at Bustle Main	pounds	23 (1.6 Bar)
Hot Blast Temp. at Bustle Main	°C	1100
Hot Blast Velocity at Tuyeres	m/sec	220
No. of Stoves		4 Nos. Conventional
STOCK HOUSE		
Raw Material Inputs		Coke, Nut coke, Sinter, Pellet, Iron ore, Limestone, Pyroxenite, quartzite
Larry Car Charging		Only One Car available
Skip Cars 2 Nos.	cft. / m3	220 / 6.23
CAST HOUSE		
2 Tap Holes		
Main -Non Drainable Trough		Catering to 200 t TLC

Second Drainable type		Catering to 200 t TLC
Common Drill Machine		Pneumatic and hydraulic operated
2 Mudguns		1st. Tap Hole Hydraulic & 2nd. Electromechanical
Slag Granulation		Conventional
Slag Rate	kg/thm	300
CRUDE GAS SYSTEM		Dust Catcher / Washer and Precipator
COOLING WATER SYSTEM		
Primary Soft Cooling Water	m3/hr	2000
Secondary IC Water	m3/hr	2000

MATERIAL DETAILS:

The material quantity shown in the following tables are indicative. Interested customers needs to physically inspect the material and satisfy themselves before participating in the auction event.

- **MECHANICAL EQUIPMENTS:**

Table 1.0:

BLAST FURNACE EQUIPMENT (INDICATIVE MATERIAL LIST)							
S. NO	ITEMS	DESCRIPTION	SIZE	INDICATIVE QTY	UNIT	MAKE	CATEGORY
1	Electric Soft Water Recirculation Pump with Motors	Horizontal Centrifugal Pump; SSSD/ESTD Capacity: 2000m3/hr; Head: 65mWC; Speed:1500 rpm Casing: ASTM A 216 Gr WCB Impeller: CF8M Shaft: SS 410 Shaft Sleeve: SS 410H	_	2	Nos	VOLTAS	A
2	Soft Water Recirculation Pump With Diesel Engine	Horizontal Centrifugal Pump; SSSD/ESTD Capacity: 1200m3/hr; Head: 40 mWC; Casing: ASTM A 216 Gr WCB Impeller: CF8M Shaft: SS 410 Shaft Sleeve: SS 410H	_	1	No	-	A

3	Gate Valve	API 600, Class 150, Flanged to ANSI class 150, bolted bonnet, hand wheel operated, raising stem, Body Cast steel material to 216 Gr. WCB, wedge Cast steel material to 216Gr. WCB + 13% Cr steel, valves to be supplied along with companion flanges, gaskets & fasteners	DN 400 DN 450	5 2	Nos	KIRLOSKAR	A
4	Check Valve	Swing Check valve, BS1868, A 216 Gr. WCB, 13% Cr, Flanged to ANSI B16.5 class 150, horizontal installation, valves to be supplied along with companion flanges, gaskets& fasteners.	DN 300	5	Nos	-	A
5	Butterfly Valves	API 609, Flanged type with tight shut-off (Bi-directional),leakage class –VI, flanged as per ANSI B16.5 150 class, Body & disc ASTM A216 Gr WCB, Seat EPDM, Internal hardware SS304, Stem AISI 410 /forged steel, valves to be supplied along with companion flanges, non-asbestos gaskets & fasteners	DN 300 DN 150	5 2	Nos	-	A
6	Ball Valves	For DN 15 to DN 40; ISO 17292, Class 800, full bore, three piece, socket welded as per ASME B16.11, Body as per ASTM A105, Ball as perCF8M / AISI 316, SEAT - PTFE / RPTFE	DN 15 DN 40	15 5	Nos	-	A
7	Flowmeter	Magnetic Flowmeter(Flow rate up to 1500 m3/hr) with companion flanges	DN 450	1	No	-	A
8	Soft water Make up pump (Electric)	6m3/hr and 45 mWC head	--	2	Set	VOLTAS	A
9	Soft water Make up pump (Diesel)	10m3/hr and 45 mWC head	_	1	Set	VOLTAS	A
10	Fast Filling Pump	50m3/hr and 45 mWC head	_	1	Set	VOLTAS	A
11	Plate Heat Exchanger	Flow: 1000 m3/hr Primary circuit tempt: 50 Deg C and 40 Deg C Secondary Circuit Tempt: 34 Deg C and 44 Deg C	_	3	Set	ALFA LAVAL	A
12	Booster Pump	80m3/hr and 60 mWC head	-	2	Set	KSB	A
13	Stove power pack and valve stand	1500 Litres, 160 Bar, 2 Main Pumps, 2 RC Pump, 30 Nos DCV blocks, PHE, 2 nos RL filter, 2 nos RC filter	_	1	Set	REXROTH	A
14	VTA Power pack and Valve stand	1500 Litres, 200 Bar, 2 Main Pumps, 2 RC Pump, 6 Nos DCV blocks, 2 nos RL filter, 2 nos RC filter	_	1	Set	REXROTH	A
15	Mudgun power pack and valve stand	1000 Litres, 160 Bar, 2 Main Pumps, 2 RC Pump, 2 Nos DCV blocks, PHE, 2 nos RL filter, 2 nos RC filter	_	1	Set	REXROTH	A
16	Skip Drive with drum, motor , Gear Box	SWL 1000 Kg, Capable for twp 10m3 Skip, Two set of wire ropes of 36 mm Dia of Drum 3 m	-	1	Set	TGS	A

17	Bell Drive-Small Bell & Big Bell	-	-	1	Set	TGS	A
18	Elec Mud Gun	Electro Mechanical Mudgun Angle of inclination 120 Swivel Angle 1250	-	1	Set	TGS	A
19	Drill Machine	Swivel: Hydraulic, Tilting: Hydraulic, Feed: Pneumatic, Rotation: Pneumatic, Hammering: Pneumatic. Drilling Angle:- 10-12 degrees, Feed Length: 3metres, Hydraulic Pressure: 250 Bar, Pneumatic Pressure: 6 Bar	-	1	Set	DDS	A
20	Lift	Height 41.5 m SWL 1000 Kg Dia of Shell 3 m	-	1	Set	OTIS	A
21	Cast House EOT Crane	Span 14.948 c/c SWL 10 T Motor Rating 13 HP, 725 RPM; HR60C RATING Speed 91 m/min Wheel Dia Travel-610 mm; Traverse-381 mm Electric Source 230 V (DC)	-	1	Set	TGS	A
22	Demag Car	Transfer Cars are used for material handling from storage yard to highline ore bins. Transfer Car application & capacities vary from industry to industry. Our transfer car is flat and bottom opening type. This car gets its power supply from floor mounted DG set. Wheel system for this car is in line with broad gauge.	-	2	Sets	DEMAG	A
23	Larry Car	Transfer Cars are used for material handling from highline ore bins to skip car pit. Transfer Car application & capacities vary from industry to industry. Our transfer car is flat and bottom opening type. This car gets its power supply from shrouded bus bar (DSL) system. Two Bogies each driven by 52 KW motor	-	1	Set	TGS	A
24	Coke Gate	Coke Gate is used to charge coke to Skip in pit .It is driven through linkages with Gearbox and motor	-	1	Set	TGS	A
25	Mixer Shut off valve and control valve	Two Lever Valve ,Nominal Dia-672mm,,Design Pressure -2.75 Kg/cm2	-	1	Set	FOURESS	A
26	Revolving Distributor	Heavy duty type Revoling Distributor with Gear Box. Its use to distribute the Raw material at Various position on Big Bell. Total Weight 45 T	-	2	Set	TGS	A
27	Bell Shut off valve winch	Bell shut off Valve winch is use to opeartae Bell shutt of Valve for isolating Furnace with GCP. It comprises of wire rope drum driven by Electric Motor	-	1	Set	TGS	A
28	Bleeders with cylinders	630 mm dia bleeder with Hydraulic Actuation	-	3	Sets	FOURESS	A

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29	BFG Control valve	Two Lever Valve , Nominal Dia-762mm,,Design Pressure -0.16 Kg/Cm2	-	1	Set	FOURESS	A
30	CO Control Valve	Two Lever Valve , Nominal Dia- 600mm,,Design Pressure -0.16 Kg/Cm2	-	1	Set	-	A
31	Pugmill with Gearbox	Pug Mill is used to transfer the dust from Dust catcher to Dumpers, 25 T/hr Capacity Pugmill.	-	1	Set	-	A
32	Skip car with Wheelsets and bail Arm	220 Cu. Ft. Skip Car	-	2	Set	TGS	A
33	Skip rail	90 Lb Rail for Broad Guage -650 meter	-	4	Set	-	A
34	Hydrant Valve	Hydrant Valve with Accessories like Hose, Nozzle, Branch Pipe, Hose Box etc	DN 63	10	Nos	-	B
35	Strainer	Y' type strainers with body of cast steel ASTM A216 WCBand stainless steel screen, Flanged ends to ASME B 16.5, class 150, Manufacturer's std. Perforations 1.6 mm. For firewater, Perforated Mesh 30, 34 SWG Filtration area shall be at least 300% of the inlet cross section area.	DN 400	5	Nos	-	B
36	Gauge Rod and winch	Guarge rod winch comprises of rope drum driven by Electric Motor	-	2	Set	TGS	B
37	CB Skip	Coke breeze skip Transfer the CB from undersize coke screen material to CB hopper.	-	1	Set	TGS	B
38	CB Hopper	Coke Breeze Hopper is CB storage unit: This is basically structural Bin with Tega Liner	-	1	Set	TGS	B
39	Snort Valve	Dia 1220 mm Type of Valve Butterfly Valve with blow-off valve & electrical actuator Working Pressure 2 Kg/cm2 (G) Full Flow 8000 mm3 /hr	-	1	Set	FOURESS	B
40	Bellow	Rubber Expansion Joints along with Split Retaining Ring,Companion Flange and Flange Fitting Bolts & Nuts. Class: 150#	DN 400 DN 300	5 5	Nos	-	C
41	Gate Valve	API 600, Class 150, Flanged to ANSI class 150, bolted bonnet, hand wheel operated, raising stem, Body Cast steel material to 216 Gr. WCB, wedge Cast steel material to 216 Gr. WCB + 13% Cr steel, valves to be supplied along with companion flanges, gaskets & fasteners	DN 400	2	Nos	-	-
			DN 300	2			
			DN150	8			
			DN 100	18			
			DN50	12			
			DN24	20			
42	Ball Valves	For DN 15 to DN 50; ISO 17292, Class 800, full bore, three piece, socket welded as per ASME B16.11, Body as per ASTM A105, Ball as per CF8M / AISI 316, SEAT - PTFE / RPTFE	DN 15	300	Nos	-	-
			DN 32	362			
			DN 50	30			
			DN 40	70			

43	Globe Valve	Steam quality globe Valves	DN150	6	Nos	-	-
			DN 100	10			
			DN 50	20			
			DN 25	40			
			DN 15	50			
44	Hydraulic Valves	Ball Valve-Pressure range upto 200 Bar	DN 15	50	Nos	-	-
45	Lubrication System	-		4	Set		

NOTE

Category A: Minor overhaul which will include cleaning, lubrication, painting
Category B: Refurbishment and modification as per requirement
Category C: Upgradation as per requirement

- **DETAIL DESCRIPTION OF PIPE & VALVES MENTIONED IN THE ABOVE TABLE IS SHOWN BELOW:**

Table 1.1:

FURNACE AREA				
S.No.	Water & Utility	UOM	INDICATIVE WEIGHTIN KG	Running Meter
1	Header 400 dia feed x300m	1 Set	36900	-
2	Header 500 dis Discharge x 300	1 Set	45000	-
3	Header R1 of 400 dia pipe at el 175303	1 Set	6180	-
4	Header R2 of 300 dia pipe at el 176777	1 Set	4855	-
5	Header R3 of 350 dia pipe at el 175931	1 Set	5200	-
6	Header R4 of 400 dia pipe at el 175615	1 Set	4920	-
7	Header R5 of 150 dia pipe at el 176939	1 Set	1204	-
8	Header R6 of 150 dia pipe at el 179682	1 Set	1170	-
9	Header R7 of 150 dia pipe at el 182424	1 Set	1148	-
10	Header R8 of 100 dia pipe at el 191886	1 Set	1120	-
11	Header R9 of 150 dia pipe at el 179396	1 Set	1200	-
12	Header R10 of 150 dia pipe at el 182124	1 Set	1200	-
13	Header R11 of 150 dia pipe at el 185675	1 Set	1200	-
14	Header R12 of 100 dia pipe at el 191886	1 Set	1200	-
15	Header R13 of 150 dia pipe at el 176331	1 Set	1500	-

16	Subheader R1-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
17	Subheader R2-1,2,3,4with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
18	Subheader R3-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
19	Subheader R4-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
20	ubheader R5-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
21	Subheader R6-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
22	Subheader R7-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
23	Subheader R8-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
24	Subheader R9-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
25	Subheader R10-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
26	Subheader R11-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
27	Subheader R12-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
28	Subheader R12-1,2,3,4 with Valves ,steel pipe, hoses upto the cooling unit and drain	4 Sets	4000	-
				-
	Steam Pipeline with Valves			-
1	Charging Platform	1 set	2000	-
2	Bleeder Platform	1 set	1500	-
3	VTA Platform	1 set	800	-
4	Stack Platform	1 set	700	-
	Water-Industrial			-
1	Pyrometer Platform			-
2	manhole Cooling	1 set	1500	-
3	Charging Platform	1 set	2000	-
4	Top spray pipeline header	1 set	2500	-
5	Individual spray lines with valves	1 set	2800	-
	Dust Catcher			-
	Steam ,Nitrogen & water header at Dust Catcher			-
1	Service Water Header & Valves	1 set	500	-
2	Nitrogen headers & Valves	1 set	500	-
3	Compressed Air Pipelines Valves	1 set		-
4	Steam line with valves	1 set	500	-
	Slag Granulation Plant			-
	Slag Pipeline upto SGDP			-
1	Slag Pipe lines & Valves upto diammond crossing	2 set	-	500
2	Slag Pipelines & Valves upto SGDP	2 set	-	500
3	Headers at SGDP	2 set	-	-
	Water Pumping unit for Blow Box and Basin			-
1	Water return piplines & Valves from SGDP to Diamod crossing 6"	3 set	-	300
2	Inlet & outlet Valves	3 set	-	-
3	Water discharge header	1 set	-	-

4	Water header upto Hot metal line	1 set	-	300
5	Water Header upto Cast House	1 set(8")	-	200
6	Drinking Water Pipelines & Valves			-
	Cast House			-
1	Co Gas line & Valves	1 Set	7500	-
2	GPO line & valves	1 Set	200	-
3	Hydraulic Pipeline for Mudgun & Drill Machine	1 Set	800	-
4	Hydraulic Valve stand for Mudgun	1 Set	3500	-
5	Hydraulic Valve stand for Drill Machine	1 Set	3600	-
6	Cast House Water Headers, Pipes & valves-Tuyeres & Tuyere Coler	1 Set	2000	-
7	Cast House Water Headers,Pipes & valves-Tuyeres Body	1 Set	7200	-
8	Cast House Water Headers, Pipes & valves-Blister coolers	1 Set	3200	-
9	Cast House Compressed Lines	1 Set	1680	-
10	Part rail tracks of Hot metal & Slag Line	1 Set	2700	-
11	Service Water Header at Cast House	1 Set	5400	-
12	Service Water Header at Tutere Platform	1 Set	1700	-
13	Drinking Water Header and taps	1 Set	900	-
				-
	Hoist House			
1	Hydraulic Pipeline (2",1")) upto Furnace Top	1 Sets	-	100m
2	Lubrication Pipeline (1',1/2' & 1/4') upto Furnace Top	1 Sets	-	100m
				-
	Stock House			-
1	Steam Pipeline	1 Sets	-	100m
2	Water Line	1 Sets	-	200m
3	Air Line	1 Sets	-	100m
	Pump House			-
1	Water Pipeline 700 mm	1 Sets	11962	40
2	Water Pipeline 600 mm	1 Sets	15315	60
3	Water Pipeline 500 mm	1 Sets	7337	40
4	Water Pipeline 300 mm	1 Sets	3188	40
5	Water Pipeline 200 mm	1 Sets	2552	60
6	Water Pipeline 150 mm	1 Sets	3391	120
7	Water Pipeline 100 mm	1 Sets	2411	150
8	Water Pipeline 80 mm	1 Sets	677	60
9	Water Pipeline 65 mm	1 Sets	690	80
10	Water Pipeline 50 mm	1 Sets	217	40
11	Water Pipeline 32 mm	1 Sets	406	120
12	Water Pipeline 25 mm	1 Sets	175	70

13	Water Pipeline 15 mm	1 Sets	101	80
				-
	Stove Area			-
1	Water Pipeline 12"	1 Sets		120
2	BF Gas Main 48"	1 Sets		70
3	BF Gas Branch line48"	1 Sets		40
4	Co Gas Line 8"	1 Sets		100
5	Cold Blast Main 4'6' dia	1 Sets		85
6	Hot Blast Main 7'3" dia	1 Sets		80
7	GPO 1"	1 Sets		70
8	Steam 2"	1 Sets		35
9	Gas Vent line 12"	1 Sets		160
10	Back drag chimney 600mm	1 Sets		50
11	Water Pipelines Miscell for HBV & BSOV Cooling	1 Sets		200
12	Mis up line 1000mm dia	1 Sets		50
13	Nitrogen Line 50 mm	1 Sets		100

- **STRUCTURAL ITEMS- Table 1.0:**

S. NO.	MS STRUCTURAL ITEMS	INDICATIVE QUANTITY (MT)
1	Structural Steel (by Shearing)	1179
2	Structural Steel (by Gas Cutting)	5538

NOTE: Areas from where Structural Items would be generated:-

- Soft Water Sub station
- Soft Water Pump Room & Equipment
- Stove#1, 2, 3 & 4 - Shell, pipes, valves & refractory
- Stove Chimney & Chimney flue
- Cold Blast, Hot Blast & Bustle Main
- BF Top Equipment & Structural
- BF Proper Equipment, Shell & Refractory
- BF Cast House & Tuyere Stock Equipment, Crane & Runners

- Dust Catcher & Bell Shut-off valve
- D BF Control Room & UPS rooms
- BF & Stove Cooling System including Coolers
- Hoist House & Cast House
- Gas Cleaning Plant & Equipment
- Slag Granulation Plant & Equipment
- D BF Control Room Mechanical Room
- D BF Stock House & Skip Bridge
- Various ECRS
- Slag Granulation Pump Room, MCC Room and associated pumps & pipelines
- Hydraulic Power Pack, Valve Stands & Piping
- Cast House Slab
- Various Structural Platforms & Staircase
- Cables, Panel of Various Areas
- Salamander & Hot metal Spool
- Up-take, Off-take & Down comers
- Water & Utility Pipe at Stove area
- AHU Room

- **ELECTRICAL EQUIPMENTS (INDICATIVE MATERIAL LIST) :**

List of Transformer (Indicative) Table 2.0:

S.NO.	AREA	EQUIPMENT DESCRIPTION	MAKE	KVA	UOM	INDICATIVE QUANTITY
1	D Blast furnace near Highline	GAUGE ROD Transformer Weight: 250 KG VOLTAGE- HV:415V LV: 337V	Voltas Ltd	25 KVA	Nos.	2
2	D Blast furnace near Highline	Bell Transformer Weight: 650 KG VOLTAGE- HV:415V LV: 337V	Voltas Ltd	93 KVA	Nos.	2
3	SGDP S/S	1000 kva Transformer Weight: 4400 KG VOLTAGE- HV:6600V LV: 415V	The National Electrical Industries	1000 KVA	Nos.	1
4	SWP S/S	Transformer-6.6 kv/433 V; 630 KVA Weight: 2380 KG VOLTAGE- HV:6600V LV: 433V	Voltas Ltd	630 KVA	Nos.	2

List of Motors (Indicative): All motors are good condition Table 2.1:

S.NO.	MOTOR DESCRIPTION	VOLTAGE
1	BELL Make: KIRLOSKER KW: 54	335
2	BELL BLOWER Make: KIRLOSKER KW: .75	415
3	CLAMP KW: 18.5	415
4	COMPRESSOR	250
5	CRANE HOIST	250
6	CT	250
7	GAUGE ROD Make: KIRLOSKER KW: 11.5	294
8	GAUGE ROD-BLOWER Make: KIRLOSKER KW: .18	415
9	L.C. TRACTION Make: KIRLOSKER KW: 52	250
10	LT	250
11	PISTON KW: 18.5	415
12	REVOLVING KW: 7.5	415
13	SNORT	415
14	TOP REVOLVING	250

List of Cables (Indicative) Table 2.2:

CABLES				
S.NO.	TYPE OF CABLES	DESCRIPTION	INDICATIVE QUANTITY	UOM
1	HT(6.6KV)	3CX95sqmm,XLPE Ar AL	800	MTR
2	HT(6.6KV)	3CX300sqmm,XLPE Ar AL	500	MTR
3	LT	3CX300sqmm,XLPE Ar AL	6450	MTR
4	LT	3CX240sqmm,XLPE Ar AL	2000	MTR
5	LT	3CX95sqmm,XLPE Ar AL	1600	MTR
6	LT	3CX70sqmm,XLPE Ar AL	1500	MTR
7	LT	3CX50sqmm,XLPE Ar AL	2400	MTR
8	LT	3CX35sqmm,XLPE Ar AL	750	MTR
9	LT	3CX25sqmm,XLPE Ar AL	2400	MTR
10	LT	3CX16sqmm,XLPE Ar AL	3500	MTR
11	LT	3CX10sqmm,XLPE Ar AL	4000	MTR
12	LT	3CX6sqmm,XLPE Ar AL	2000	MTR
13	LT	3CX4sqmm,XLPE Ar Cu	600	MTR

14	LT	3CX2.5sqmm,XLPE Ar Cu	4500	MTR
15	Control Cable	37CX1.5sqmm,XLPE Ar Cu	1200	MTR
16	Control Cable	19CX1.5sqmm,XLPE Ar Cu	2000	MTR
17	Control Cable	12CX1.5sqmm,XLPE Ar Cu	2000	MTR
18	Control Cable	7CX1.5sqmm,XLPE Ar Cu	4200	MTR
19	Control Cable	5CX1.5sqmm,XLPE Ar Cu	2300	MTR
20	Control Cable	2CX1.5sqmm,XLPE Ar Cu	3500	MTR
21	DC cable	2CX150sqmm,PVC Cu	1200	MTR
22	DC cable	2CX50sqmm,PVC Cu	1200	MTR
23	DC cable	2CX25sqmm,PVC Cu	500	MTR
24	Instrument and pair cable	Pair cables	10500	MTR
25	K type thermocouple cable	2CX1.5sqmm,PVC Shielded Cable	4500	MTR
26	S/B type thermocouple cable	2CX1.5sqmm,PVC Shielded Cable	2900	MTR
27	Special cables	Load cell, ethernet etc	3500	MTR
Total			**72500**	MTR

❖ **CATEGORY WISE CABLE LENGTH (INDICATIVE):**

- Aluminium cable: 27900 M
- Copper Cable: 33700 M
- Alloy Cable: 10900 M

▪ OTHER ELECTRICAL ITEMS (INDICATIVE LIST):

Table 2.3:

S.NO.	AREA	ELECTRICAL EQUIPMENT DESCRIPTION	INDICATIVE QUANTITY	UOM
1	Furnace Top	Above burden probe Thermocouple (K-type)	12	Nos
2	Furnace Top	GAUGE ROD MOTOR OF D FCE along with control panel and brake	2	Nos
3	Furnace Top	Radar for Stock Line Measurement	2	Nos
4	Furnace Top	Distributor Motor - (18.5 kW * 1 DC Motor)	1	Nos
5	Furnace Top	Bleeder Control Panel	1	Nos
6	Furnace Top	415 V DB	1	Nos
7	Furnace Proper	Thermocouple & RTD with thermowell (Hearth, Bosh, Stack, Inwall, cooling water system)	250	Nos

8	Furnace Proper	Top spray Panel (37 kw)	2	Nos
9	Furnace Proper	Pug mill Panel 45 kW)	1	Nos
10	Furnace Proper	Fast Filling and Makeup pump panel	2	Nos
11	Stove Area	Dome Thermocouple (B Type)	8	Nos
12	Stove Area	Hot Blast Thermocouple-S or B type	2	Nos
13	Stove Area	Stove area limit switch	64	Nos
14	Stove Area	Stove operation panel	1	Nos
15	Stove Area	Emergency Panel - for Stove with 8 points manual loader	1	Nos
16	Stove Area	Power Pack Motor for Stoves Hydraulic PDB	1	Nos
17	Stove Area	Stove Blower Panel	4	Nos
18	Stove Area	oxygen PRS Instruments	-	-
19	Stove Area	Lighting DB	-	-
20	Stove Area	UPS	1	Nos
21	Stove Area	Stove automation panel	1	Nos
22	Hoist House	Distributor panel	1	Nos
23	Hoist House	Skip PLC And panels	40	Nos
24	Hoist House	Skip Brake Panel	2	Nos
25	Hoist House	Bell D C drive	1	Nos
26	Hoist House	Gauge Rod drive	2	Nos
27	Hoist House	Gauge Rod DC Panel	2	Nos
28	Hoist House	Gauge Rod indication Panel	1	Nos
29	Hoist House	VTA panel & Cam Switch	1	Set
30	Hoist House	220 DB	1	Nos
31	Hoist House	415 V DB	1	Nos
32	Cast House	Mudgun panel - Electrical Mudgun	5	Nos
33	Cast House	Control Desk for cast house machine	2	Nos
34	Cast House	Cast house Crane and power rail	1	Nos
35	Cast House	PDB	2	Nos
36	Cast House	drill machine - Panel	1	Nos
37	Cast House	Mudgun Power Pack panel	2	Nos
38	Cast House	Cast House Crane	1	Nos
39	Cast House	Common Pulpit with control desk	1	Set
40	Cast House	Production Display Board	1	Nos
41	Cast House	Trough TC	8	Nos
42	Cast House	Discharge Hole TC	8	Nos
43	Cast House	Panels	10	Nos

CIN	L27100MH1907PLC000260

44	Stock House	Larry Car Power rail	1	Set
45	Stock House	Insulators	1	Set
46	Stock House	DCDB	2	Set
47	Stock House	Traction Panel	1	Set
48	Stock House	Compressor Panel	1	Set
49	Stock House	Larry car power local switches	1	Set
50	Stock House	LPBS	20	Nos
51	Stock House	Master control panel	1	Nos
52	Stock House	Panels (Coke gate panel, skip pit panel, CB gate panel)	1	Set
53	Stock House	Mimic Panel	1	Nos
54	Stock House	DC Panel	2	Nos
55	Stock House	Stock House PMCC	1	Nos
56	Stock House	Stock House 415V PDB	1	Nos
57	Stock House	Lighting DB	1	Nos
58	D BF substation	Main Power Incoming HT board at DBF HT room	1	Nos
59	D BF substation	415 DB	1	Nos
60	D BF substation	220 v DB	1	NOS
61	D BF substation	PCC Panel	1	Nos
62	SWP Substation	Main Power Incoming HT board at SWP HT room	1	Nos
63	SWP Substation	Transformer, 6.6 kv/433 V, 630 KVA	2	Nos
64	SWP Substation	MCC	1	Nos
65	SWP Substation	DG PUMP	1	Nos
66	SWP Substation	Battery charger	1	Nos
67	General	415 v DB	1	Nos
68	General	Slurry pump panel	2	Nos
69	General	1000 kva transformer	1	Nos
70	General	HIGH PRESSURE panel	3	Nos
71	General	HIGH PRESSURE panel	2	Nos
72	General	Control room axlilary monitor CPU etc.		
73	General	FDA System	2	Nos
74	General	Weighing system	1	Set
75	General	Lift (cage, motors, cables, drum sheave etc.)	1	Set
76	General	Man cooler fan	10	Nos
77	General	Pug mill panel	1	Nos
78	General	Top spray panel	2	Nos
79	General	Snort motor panel	1	Nos

80	General	GAUGE ROD transformer(25 KVA)	2	Nos
81	General	Bell transformer(93 KVA)	2	Nos
82	General	electrical winch	1	Nos
83	General	MCBs, MCCB	100	Nos
84	General	lighting DBs	30	Nos
85	General	SFU unit	100	Nos
86	General	shutoff valve	28	Nos
87	General	CCTV (10 cameras)	5	Nos

DBF SWITCHBOARD & FEEDER LIST Table 2.4:

S. NO	SWITCHBOARD NAME	FEEDER NAME	FEEDER RATING
1	SWP PCC 415 V PANEL Location: S.W.P. S/S	INCOMER #1 INCOMING FROM 630KVA TRAFO #1	ACB - 1000A
		INCOMER #2 INCOMING FROM 630KVA TRAFO #2	ACB - 1000A
		OUTGOING FEEDER TO SWP MCC FDR #1	ACB -1000A
		OUTGOING FEEDER TO CBF STOVE AREA SWP ROOM	ACB -1000A
		BUS COUPLER	ACB- 1000A
		OUTGOING FEEDER TO SWP MCC FDR #2	ACB- 1000A
		OUTGOING FEEDER TO DB IN DBF STOVE AUTOMATION MCC	ACB- 1000A
2	SWP MCC 415V Location: S.W.P. S/S	INCOMER #1 INCOMING FROM SWP PCC FDR#1	ACB- 1000A
		INCOMER #2 INCOMING FROM SWP PCC FDR#2	ACB- 1000A
		OUTGOING FEEDER TO 415V DB AT 6.6KV SW. ROOM WPRS	MCCB- 100A
		OUTGOING FEEDER TO FBF IEMOFC. SWP MAIN COOLER	MCCB- 100A
		OUTGOING FEEDER TO STRAINER PANEL PH#2	MCCB -32A
		OUTGOING FEEDER TO BATTERY CHARGER C/O SWITCH	MCCB-63A
		OUTGOING FEEDER TO 25KVA LTG TRF	MCCB- 63A
		OUTGOING FEEDER TO 3.7KW SWP-3A	MCCB-32A
		OUTGOING FEEDER TO BOOSTER PUMP PANEL-1	MCCB- 100A
		OUTGOING FEEDER TO 1.5KW VALVE MGV - 5CW - 001	MPCB-32A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV - 500 -004	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV SW	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV ICW-005	MPCB- 63A
		OUTGOING FEEDER TO 1.1KW VALVE MGV -SW -003	MPCB-32A

		OUTGOING FEEDER TO 5.5KW VALVE MBFV -ICW -001	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV - SW - 002	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV - KW- 003 PH#2	MPCB-63A
		BUS COUPLER	ACB-1000A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV SW -006	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV SWMV - 001	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV ICW - 005	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV ICW - 002	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV KW - 004	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV SW - 001	MPCB-63A
		OUTGOING FEEDER TO 5.5KW VALVE MBFV SW - 003	MPCB-63A
		OUTGOING FEEDER TO BOOSTER PUMP PANEL-2	MCCB-100A
		OUTGOING FEEDER TO 7.5 KW VACUUM PUMP #1	MPCB-63A
		OUTGOING FEEDER TO 7.5 KW VACUUM PUMP #2	MPCB-63A
		OUTGOING FEEDER TO 3.7 KW SWP - 3B	MPCB-32A
		OUTGOING FEEDER TO 1.1KW VALVE MGV -SW -002	MPCB-32A
		OUTGOING FEEDER TO 30KW SWP #4 FAST TILTING	MCCB-100A
		OUTGOING FEEDER TO BOOSTER PUMP #2	MCCB-100A
		OUTGOING FEEDER TO WELDING	MCCB-100A
		OUTGOING FEEDER TO ENGINE CONTROL	MPCB-32A
		OUTGOING FEEDER TO LUBRICATION PUMP (DIESEL)	MPCB-32A
		OUTGOING FEEDER TO SWP BLOWER MOTOR OUTSIDE	MPCB-63A

Table 2.5:

S. NO	SWITCHBOARD NAME	FEEDER NAME	FEEDER RATING
1	"D" BF Main HT S/S (6.6 KV)	Incoming feeder -1 from C BF New HT S/S	VCB
2	"D" BF Main HT S/S (6.6 KV)	Incoming feeder -1 fromSP#2	VCB
3	"D" BF Main HT S/S (6.6 KV)	Bus Coupler	VCB
4	"D" BF Main HT S/S (6.6 KV)	Outgoing feeder to 1000KVA Trafo #1	VCB

5	"D" BF Main HT S/S (6.6 KV)	Outgoing feeder to 1000KVA Trafo #2	VCB
6	DBF PCC#1 (415 Volt) PANEL	Incoming feeder -1 from 1000KVA TRAFO#1 AT DBF HT S/S	ACB-2000A
7	DBF PCC#1 (415 Volt) PANEL	Incoming feeder -1 from 1000KVA TRAFO#2 AT DBF HT S/S	ACB-2000A
8	DBF PCC#1 (415 Volt) PANEL	Outgoing feeder to AC PLANT ROOM	MCCB- 400A
9	DBF PCC#1 (415 Volt) PANEL	Outgoing feeder to 415V AC FOR THYRISTOR ROOM AT PCC#1	MCCB-100A
10	DBF PCC#1 (415 Volt) PANEL	SPARE	ACB-1600A
11	DBF PCC#1 (415 Volt) PANEL	Outgoing feeder to STOCK HOUSE FEEDER#1	ACB-1600A
12	DBF PCC#1 (415 Volt) PANEL	Outgoing feeder to PCC#2 FEEDER #1	ACB-1600A
13	DBF PCC#1 (415 Volt) PANEL	Bus Coupler	ACB-2000A
14	DBF PCC#1 (415 Volt) PANEL	Outgoing feeder to PCC#2 FEEDER #2	ACB-1600A
15	DBF PCC#1 (415 Volt) PANEL	Outgoing feeder to STOCK HOUSE FEEDER#2	ACB-1600A
16	DBF PCC#1 (415 Volt) PANEL	SPARE	ACB-1600A
17	DBF PCC#1 (415 Volt) PANEL	Outgoing feeder to DBF STOVE AUTOMATION & MUDGUN HYD MCC FEEDER#1	MCCB-400A
18	DBF PCC#1 (415 Volt) PANEL	SPARE	MCCB-100A
19	DBF PCC#2 PANEL	Incoming feeder- 1 FROM PCC#1	ACB-1000A
20	DBF PCC#2 PANEL	Incoming feeder- 2 FROM PCC#1	ACB-1000A
21	DBF PCC#2 PANEL	OUTGOING FEEDER TO ISOLATING TRAFO#2 FOR S2	ACB-800A
22	DBF PCC#2 PANEL	OUTGOING FEEDER TO SKIP AUXILIARY SUPPLY (S2+1)	MCCB- 63A
23	DBF PCC#2 PANEL	OUTGOING FEEDER TO 400A TPDT SW. AT DD S/H HYD MUDGUN M/C	MCCB-400A
24	DBF PCC#2 PANEL	OUTGOING FEEDER TO BELL 93 KVA TR#2	MCCB-315A
25	DBF PCC#2 PANEL	OUTGOING FEEDER TO GAUGE ROD#2 AUX. POWER (G2+2)	MCCB-315A
26	DBF PCC#2 PANEL	BUSCOUPLER	ACB-1000A
27	DBF PCC#2 PANEL	OUTGOING FEEDER TO SKIP INTER	MCCB-63A
28	DBF PCC#2 PANEL	OUTGOING FEEDER TO BELL AUX (B2+1)	MCCB-315A
29	DBF PCC#2 PANEL	OUTGOING FEEDER GAUGE ROD#1 AUX. POWER (G2+2)	-
30	DBF PCC#2 PANEL	SPARE FEEDER	-
31	DBF PCC#2 PANEL	OUTGOING FEEDER TO BELL INTER PHASE (1+1)	-

32	DBF PCC#2 PANEL	OUTGOING FEEDER TO BELL AUX (B2+1)	-
33	DBF PCC#2 PANEL	OUTGOING FEEDER TO BELL 93 KVA TR#1	-
34	DBF PCC#2 PANEL	SPARE FEEDER	-
35	DBF PCC#2 PANEL	OUTGOING FEEDER TO SKIP AUXILIARY SUPPLY (S2+1)	-
36	DBF PCC#2 PANEL	OUTGOING FEEDER TO GAUGE ROD#1 25KVA TRAFO	MCCB-63A
37	DBF PCC#2 PANEL	OUTGOING FEEDER TO ISOLATING TRAFO#1 FOR S2	ACB-800A
38	DBF STOCK HOUSE MCC 415 volt MCC PANEL	INCOMING FEEDER-1 FROM PCC#1 FDR#1	ACB-1000A
39	DBF STOCK HOUSE MCC 415 volt MCC PANEL	INCOMING FEEDER-2 FROM PCC#1 FDR#2	ACB-1000A
40	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER TO DBF SINTER BUSTER #1	MCCB-100A
41	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER TO AUX DB AT STOCK HOUSE	MCCB-400A
42	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER TO HIGH LINE TRF	MCCB-200A
43	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER LARRY CAR	MCCB-100A
44	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER CB SKIP	MCCB-100A
45	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER COKE GATE EAST	MCCB-100A
46	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER STOCK HOUSE LTG TRF	MCCB-200A
47	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER STOCK HOUSE	MCCB-200A
48	DBF STOCK HOUSE MCC 415 volt MCC PANEL	B/C	ACB-1000A
49	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER LTG TRF	MCCB-100A
50	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER SKIP IN PIT	MCCB-100A

51	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER COKE GATE WEST	MCCB-100A
52	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER LIFT	MCCB-200A
53	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER PUG MILL	MCCB-200A
54	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER STOVE POWER DB	MCCB-400A
55	DBF STOCK HOUSE MCC 415 volt MCC PANEL	OUTGOING FEEDER TOP SPRAY	MCCB-200A
56	DBF STOVE 440V AC PDB PDB PANEL	INCOMER-1 INCOMING FROM PH#2	ACB-800A
57	DBF STOVE 440V AC PDB PDB PANEL	INCOMER-2 INCOMING FROM STOCK HOUSE PCC	ACB-800A
58	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO STOVE BLOWER MOTOR #2	MCCB-200A
59	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO STOVE BLOWER MOTOR #1	MCCB-200A
60	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO LUBRICATION PUMP	MCCB-63A
61	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO LIGHTING TRAFO	MCCB-125A
62	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO HOIST HOUSE	MCCB-315A
63	DBF STOVE 440V AC PDB PDB PANEL	B/C	ACB-800A
64	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO LIFT	MCCB-125A
65	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO WELDING DB	MCCB-315A
66	DBF STOVE 440V AC PDB PDB PANEL	SPARE	MCCB-125A

67	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO INSTRUMENT SUPPLY	MCCB-63A
68	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO STOVE BLOWER MOTOR #3	MCCB-200A
69	DBF STOVE 440V AC PDB PDB PANEL	OUGOING FEEDER TO STOVE BLOWER MOTOR #4	MCCB-200A
70	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	INCOMER -1 INCOMING FROM PCC#1	MCCB-400A
71	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	INCOMER -2 INCOMING FROM PCC#2	MCCB-400A
72	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	INCOMER -3 INCOMING FROM SOFT WATER PUMP PCC	630A SFU
73	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	OUTGOING FEEDER TO HYD. MUDGUN & TAPHOLE MCC	MCCB-200A
74	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	OUTGOING FEEDER TO MIXER SOV+100A SW FOR UPS	MCCB-125A
75	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	OUTGOING FEEDER TO CONTROL PANEL FOR STOVE AUTOMATION PANEL	MCCB-125A
76	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	OUTGOING FEEDER TO 25 KVA LTG TRF	MCCB-125A
77	DBF STOVE AUTOMATION & MUDGUN HYD. MCC PANEL	OUTGOING FEEDER TO MCC PANEL FOR A/C PLANT	MCCB-315A
78	O.G.P. PCC PANEL	INCOMER FEEDER INCOMING FROM 1000KVA TRAFO	2000A
79	O.G.P. PCC PANEL	OUTGOING FEEDER TO DBF HPP #1&3	100A
80	O.G.P. PCC PANEL	OUTGOING FEEDER 400A SWITCH ON WALL BACKSIDE	100A
81	O.G.P. PCC PANEL	OUTGOING FEEDER CBF H/P TIE	200A
82	O.G.P. PCC PANEL	OUTGOING FEEDER DBF HPP #2	800A
83	O.G.P. PCC PANEL	OUTGOING FEEDER DBF SLURRY PUMP 1&2	1600A

ITEMS NOT IN THE SCOPE OF SALE:

1. ELECTRICAL ITEMS:

Table 3.1:

AREA	ELECTRICAL EQUIPMENT DESCRIPTION	UOM	INDICATIVE QUANTITY
Furnace Top	Fce top PT and TT (Uptake)	Nos.	6
Furnace Top	Lighting DB	Nos.	1
Furnace Proper	Tuyere Magnetic flowmeter	Nos.	60
Furnace Proper	DP type flow transmitter of fce cooling pipelines	Nos.	20
Furnace Proper	Pressure transmitters ,Shutoff valve of stack pressure	Nos.	18/18
Stove Area	Pneumatic cylinder for ARV/GRV/Mixer	Nos.	10
Stove Area	Steam Control Valve	Nos.	2
Stove Area	DPT,PT,FT & TT of stove area	Nos.	36
Stove Area	N2 PRS instruments and control valve	Nos.	-
Stove Area	CO gas control valve	Nos.	1
Hoist House	AHU system	Nos.	1
Hoist House	Skip drive	Nos.	2
Cast House	Flow meter for Mud gun Clay volume & all Pressure Transmitter	Nos.	5
Stock House	Larry car weighing system	Nos.	1
D BF substation	Transformer, 6.6 kv/433 V, 1000 KVA	Nos.	2
General	PCC Panel	Nos.	1
General	Main PLC	Nos.	-
General	Analyzer system for TGA	Set	1
General	lighting - Light fitting and Transformer (10 X 25 KVA)	Nos.	10
General	Online CO detector in all areas (where not installed at present)	Nos.	20
General	PA system	Nos.	25
General	skip isolating transformer(464 KVA)	Nos.	2

Table 3.2:

AREA	EQUIPMENT DESCRIPTION	UOM	QUANTITY	MAKE	KVA	WEIGHT	VOLTAGE	
							HV	LV
D Blast furnace near Highline	Skip Isolating Transformer(464 KVA)	Nos.	2	VOLTAS LIMITED	464	2000 KG	415 V	332 V
D Blast furnace	Lighting - Light Fitting And Transformer (10 X 25 KVA)	Nos.	10	Transo India Calcutta	25 KVA	155 KG	415 V	220 V
D BF S/S	Transformer, 6.6 Kv/433 V, 1000 KVA	Nos.	2	Crmpton Greaves	1000 KVA	3720 KG	6.6-3.3 KV	433 V

Table 3.3:

MOTOR	KW	FRAME SIZE	RPM	CURRENT	VOLTAGE
CB GATE	-	-	-	-	415
CB SKIP Make: CG	17	160L	1465	33	415
COKE GATE		-	-	-	415
COKE SCREENER	7.5	-	-	14.4	415
FAST FILL	30	-	-	-	415
HYD.MUDGUN PUMP 2 nos.	45	-	-	-	415
MAKE UP-A Make: KIRLOSKER	3.7	100L	2880	7.1	415
MAKE UP-B	7.5	-	2880	-	415
Pug Mill	45	-	-	-	
RECIRCULATING PUMP	-	-	-	-	415
RECIRCULATION PUMP	-	-	-	-	415
SGP HPP 3 nos.	250	-	-	-	415
SKIP Make: KIRLOSKER	264	KMDC620	500	973	295

SKIP BLOWER Make: KIRLOSKER	7.5	-	1480	14.4	415
SLURRY PUMP 2nos. Make: SIEMENS	228	400M	988	395	415
STOVE BLOWER 3 nos.	45	-	1470	73	415
STOVE HYD.PUMP	18.5	-	-	-	415
SWP1A Make: BHEL	490	1LA7562-4	1484	53	6600
SWP1B Make: BHEL	490	1LA7562-4	1484	53	6600
TOP SPRAY	30	-	-	-	415
VTA Hyd. Pump 2 nos.	18.5	-	1480	33	415
Booster	-	-	-	-	-

Table 3.4:

DBF SWITCHBOARD & FEEDER LIST				
SL NO	SWITCHBOARD NAME	LOCATION	FEEDER NAME	FEEDER RATING
1	DBF S.W.P. HT S/S(6.6 KV)	S.W.P. S/S	INCOMER #1 INCOMING FROM GHH S/S	VCB 1250A
			INCOMER #2 INCOMING FROM WPRS S/S	VCB 1250A
			OUTGOING FEEDER TO SWP MOTOR #1A	VCB- 490KW
			OUTGOING FEEDER TO ICW P MOTOR #1A	VCB -200KW
			OUTGOING FEEDER TO 630KVA TRAFO #1	VCB-1250A
			BUS COUPLER	VCB-1250A
			OUTGOING FEEDER TO 630KVA TRAFO #2	VCB- 1250A
			OUTGOING FEEDER TO ICW P MOTOR #1B	VCB- 200KW
			OUTGOING FEEDER TO SWP MOTOR #1B	VCB- 490KW
2	DBF STOCK HOUSE MCC 415 volt MCC PANEL	Main	OUTGOING FEEDER SINTER BUNKER #2 / DBF STOVE PDB FDR#2	MCCB-100A

2. MECHANICAL ITEMS:

Table 3.5:

S. NO	ITEMS	DESCRIPTION	INDICATIVE QUANTITY	UNIT
1	Coke Screener	TRF make Coke Screen	2	Set
2	Hydraulic Mudgun & Accumlator Strand	DDS make Mudgun	1	Set
3	CB Skip Winch	TGS	1	Set

BIDDER QUALIFICATION CRITERIA:

1. The prospective Bidders shall submit a Documentary Evidence, indicating **a Single** purchase of Plant/Machinery/Industrial Items in the last Five Financial Years, having a minimum quantity of **5000 MT**/Transactional Value greater than or equal to **INR 10 Crores**. Work Order/Work Completion Certificate/Invoices/Delivery Orders/Purchase Orders may be submitted as documentary evidence.

2. Interested Bidders shall submit their financial accounts for last **Three Financial Years** as a part of Qualification requirements ("Qualification Documents") indicating Annual Turnover per year greater than or equal to INR **10 Crores**.

3. Interested bidders must submit the full **Pre-BID security amount of INR 75 Lakhs** within 28TH September 2020.

4. Interested Bidders must have carried out physical inspection of the Blast Furnace.

NOTE: Buyers meeting the above mentioned Bidder Qualification Criteria will be allowed for inspection of the material. Last date of submission of the above mentioned documents is 25TH Sept 2020. Documents can be mailed to: bidyut.ghosh@mjunction.in

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PAYMENT AND LIFTING SCHEDULE:

EMD	INSTALMENT PAYMENT (3 Equal instalments)	LIFTING SCHEDULE (No. of working days from the date of Delivery Order, Excluding Saturday & Sunday)
15% of Lot Value Including Taxes has to be deposited within SEVEN (7) Working Days from the date of Lot Confirmation. Dismantling will be commenced by TATA STEEL upon receiving the Full EMD Amount. Lifting of the material is not permitted.	1st instalment - 25% of the lot value including taxes & duties within 30 days from lot confirmation	Material Lifting allowed up to 25% of the 1st instalment value deposited.
	2nd instalment - 30% of the lot value including taxes & duties within 90 days from lot confirmation	Material Lifting allowed up to 25% of the 2nd instalment value deposited.
	3rd instalment - 30% of the lot value including taxes & duties within 150 days from lot confirmation	Buyer will be allowed to lift the balance material

DISMANTLING AND LIFTING SCHEDEULE:

Dismantling of the Plant and Machinery items will be done by TATA STEEL. Entire lifting of the Plant & machinery items has to be completed within approx. **365 Days** of receiving of Delivery Order. If there is a timeline extension request made by the Successful buyer post completion of the lifting period, Tata Steel will review the request & take a decision. TATA STEEL's decision will be considered final.

SPECIAL NOTE: - It is the responsibility of the buyer to furnish the valid GST no. & necessary documents to mjunction before participating in the auction. In case during the transactions, it is found that valid GST no. has not been provided, then all necessary liabilities if any & so accrued would be on account of the buyer. TATA Steel & mjunction would not be responsible for any such liabilities.

REQUIREMENTS FOR PARTICIPATION IN AUCTION:

1.1 Registration: Before participation in the e-Auction, a prospective bidder shall be required to get registered with mjunction services limited. For details visit: www.metaljunction.com

1.2 Interested bidders must fulfil all the Bidder Qualification Criteria mentioned above.

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1.3 Pre Bid Security Deposit: A Pre Bid Security of INR 75 Lakhs has to be deposited through Online Payment only. Pre-Bid Security amount will be refunded after the completion of lifting of all the items under the scope of sale.

1.4 **Account Details**:

Beneficiary Name	MJUNCTION SERVICES LIMITED
Bank Name	HDFC BANK LTD
Branch Name	Sandoz Branch, Mumbai
Account No	Explained below *
IFSC Code	HDFC0000240

ACCOUNT NO:

All the customers will have a unique account number. The unique account number is an alpha numeric code consisting of 13 characters. The Customer's unique "account number" is a combination of the MJ' SAP code along with the 7 digit bidder SAP ID and can be used as reference for all subsequent transactions. The Customer's Account Number detail is available in "Profile" after the customer logs into our website using the user id and password.

INSPECTION REGISTRATION & POLICY:

Buyers meeting the Bidder Qualification Criteria will be allowed for inspection of the material. Interested buyers need to send their request for inspection (EOI) to: **BIDYUT GHOSH** (bidyut.ghosh@mjunction.in) **1 WEEK** prior to the date of inspection (Mail request should contain – Person Name, Firm Name, Mobile No. & Name of the Auction) along with other supporting documents fulfilling the Bidder Qualification Criteria.

Customers are advised to ensure that they inspect the materials on offer on the scheduled date as mentioned in the catalogue, before participating in the Auction. It is reiterated that all materials are offer / sold by Tata Steel on "AS-IS-WHERE-IS" and "NO-COMPLAINTS" basis and no complaint what so ever shall be entertained regarding the quality of materials after the sale. Further, TATA Steel would not accept any claim from any customer for non-inspection of materials. All are required to bring safety Goggles, Safety Helmet & Safety Shoes. Without the safety equipment's no one will be allowed to inspect the material. Only registered customers / bidders / representatives of firms shall be allowed for inspection of materials, subject to their fulfilling Bidder Qualification Criteria and the safety requirement of the steel works.

Note: Taking photographs of the material is strictly prohibited.

"Material Specification & Photographs if any given in the catalogue is indicative only."

NOTE: *TSL reserves the right to track IP address, MAC number and geolocation of bidding customers whenever customers participate in any auction on the mjunction auction platform for TATA Steel. Further, Customers are requested to install the necessary apps in the devices we use for log in and bidding in mjunction auction platform to enable tracking of the MAC number and geolocation.*

"With effect from 6tht Aug 16 it will be mandatory for all customer representatives to furnish the Original Police Verification document of their customer representative obtained from the SSP's office Jamshedpur along with other existing requisite documents to get the Delivery Orders from Mjunction Office JSR".

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BIDDING MODALITIES:

- Price Bid Basis: In Indian rupees as per unit of measurement as given in Material List. Price to be quoted is basic, exclusive of all taxes.
- Bid Increment : As per Auction
- UOM: RSPLOT
- Type of Auction: English No ties
- Bid Validity: 10 Days
- Bid Duration: One Hour

LIFTING TERMS & CONDITIONS:

a. DOs will be handed over to authorized representatives of bidders on receipt of payment. Lifting date is calculated from the next day of DO Release date.
   i. Note: Sundays are optional for the purpose of arriving at the lifting schedule

b. Loading Time : 8 AM to 5 PM
   i. Loading shall be given strictly as per the statutory norms & safety norms of Tata Steel Ltd.

c. Lifting with Ground Rent: Lifting along with ground rent will be allowed up to 04 (Four) working days from the last date of lifting period. Ground Rent will be calculated on balance unlifted quantity @ 05 paise per Rs 100 per day.

d. DO validity can be extended Only ONCE against each Delivery Order upto a maximum of 4 days from last date of original validity period of the DO subject to receipt of GR Payment through Online payment by 01.00 PM on the first working day after the expiry of the Original validity period of DO. Kindly note that all the Delivery Orders (DO) which meet the Lot Closure Norms shall be closed within one day from the date of expiry of original Delivery Order (DO) validity.

e. Additional lifting days for advance payment of installment – If the installment payment is made in advance, then additional lifting days (equivalent to the number of days payment made in advance) would be given. This would not be applicable for EMD payment.

f. Suitable extension of due date for payment and lifting will be accorded in case of any eventualities like Strike/ Bundh / Special restriction on vehicular movement imposed by the local Administration. etc.

g. "With effect from 1st July'16 it will be mandatory for all customer representatives to furnish the Original Police Verification document of their customer representative obtained from the SSP's office Jamshedpur along with other existing requisite documents to get the Delivery Orders from mjunction Office JSR".

PENALTIES:

1. The entire Pre Bid Security amount will be forfeited if the H1 Buyer fails to deposit the EMD amount within the stipulated time.
2. The entire Pre Bid Security & EMD Amount will be forfeited if the H1 buyer fails to deposit the 1st instalment amount within the stipulated time.

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3. The entire Pre Bid Security, EMD & 1st instalment amount will be forfeited if the H1 buyer fails to deposit the 2nd instalment amount in stipulated time.
4. The entire Pre Bid Security, EMD, 1st & 2nd Instalment amount will be forfeited if the H1 buyer fails to deposit the 3rd instalment amount in stipulated time.
5. If the successful Buyer fails to deposit any of the material value instalments within the stipulated time, a late fee penalty of 1% per week or part thereof up to 2 weeks will be imposed. Beyond 2 weeks, the payment may not be accepted & the entire pre-bid security deposit along with previous deposited EMD & instalments will stand forfeited. However acceptance of late payment beyond 2 weeks, will be at the sole discretion of Tata Steel with or without levy of penalty charges.
6. In the event of any default, apart from the above forfeiture clauses, the customer's user id will be disabled and the customer will be blocked from participating in any auction of TSL with immediate effect.
7. In case of non- lifting of full lot quantity after making full payment, 20% of the Pre Bid Security Amount is liable for forfeiture by Tata Steel. Pre Bid Security Amount will be refunded after deducting the penalty amount.

LOT CLOSURE NORMS:

Successful lifting clearance certificate from TSL, at Sellers Option.

REFUND:

a. "TATA Steel would make refunds only through online mode wef 15th June 2016. Non-Interest Bearing Pre-Bid Security Deposit of INR 75,00,000 will be refunded post successful lifting of materials as per catalogue terms and conditions. For non-successful bidders the Non-Interest Bearing Pre-Bid Security Deposit amount will be added to buyer's Free Pool account after the completion of the auction. Once the amount is in the Free Pool, buyer can apply for the refund of the amount.

b. Refunds will only be made by TATA Steel vide RTGS/NEFT and hence all customers are required to submit their bank details to mjunction or mail at mjbpo.group@mjunction.in. TATA Steel or mjunction will not be responsible for any delay in refunds owing to absence of bank details of the customer.

c. Complaints: Complaints, if any, with regard to any transaction, shall have to be lodged by the buyer within three months from the date of last invoice. No complaint shall be entertained thereafter, under any circumstances. Customers can log their complaints at fsc@mjunction.in

JURISDICTION:

Any dispute arising out of any contract shall be decided in Jamshedpur by the courts in Jamshedpur and by no other courts. The courts in Jamshedpur shall have exclusive jurisdiction to adjudicate upon any such dispute.

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GENERAL TERMS & CONDITIONS:

a) Any dispute on quality of material and bid cancellation shall not be entertained at any point after the auction.
b) Materials shall be sold on "as is where is basis" and "no complain basis" for all lots.
c) Lot transfer will not be allowed. Payment and invoicing has to done in the name of the H1 bidder, subject to the prices being approved.
d) Material purchased should be the only material being lifted from the designated location. Tata Steel has the right to check any vehicle at any moment of time. If material lifted differs from the material that is purchased by the buyer, and then the buyer/ Authorization representative will be permanently debarred. Also Tata Steel can take any penal action against the buyer/Authorization representative. All the material loaded in the vehicle is to be covered in order to follow the safety compliance of Tata Steel works. If the safety compliance is not followed then Tata Steel can penalize the buyer/ Authorization representative as deemed fit.
e) Customer attested photocopy of valid photo ID proof (Voter ID/PAN/Aadhar Card) of all lifters/ Authorization persons engaged by customers for lifting of scrap from TSL is to be enclosed with the Authorization letters to be forwarded to TSL (Security/MRSPP) for issue of Gate Pass.
f) Dispatch is subject to Force Majeure Conditions.
g) The Seller reserves the right to terminate this offer without assigning any reason.
h) In the event of termination of the offer, Seller shall refund the balance amount after due reconciliation.
i) Material is being sold on "As Is Where Is" & No Complaint basis.
j) No claims whatsoever would be entertained after cancellation of the bid.
k) Wearing proper PPE at all times when inside the plant
l) NO driver to be roaming around during loading of vehicles
m) Scotch blocks mandatory when under loading or when at halt
n) Drivers to be only at designated areas during loading.
o) All vehicles to follow ONLY designated route inside the plant as per instruction given at JMD gate
p) Vehicles to be parked only at designated areas. All lifters to discuss the same with plant Operations under any confusion
q) No speed violation is acceptable under any circumstances.

COMPLIANCE TO SAFETY NORMS

a. Authorized persons (of the customer) involved in lifting of the materials will be allowed only with Personal Protective Equipments (PPE) i.e. Safety Shoes, Safety Helmet, Safety Goggles, Fluorescent Jacket and Hand Gloves. No "people movement" shall be allowed at the time of loading/delivery of materials from the yards" Tata Steel will not be responsible for any delays arising out of Non- Compliance to the Safety Norms.
b. Documents for verification regarding entry of vehicles inside Tata Steel

All customers to note that presentation of following set of documents to TATA STEEL authorities is COMPULSORY at the time of reporting of vehicles at TSL designated Gate for entry of Customer trucks/vehicles.

i. Driving License of driver
ii. Registration Card
iii. Commercial Certificate

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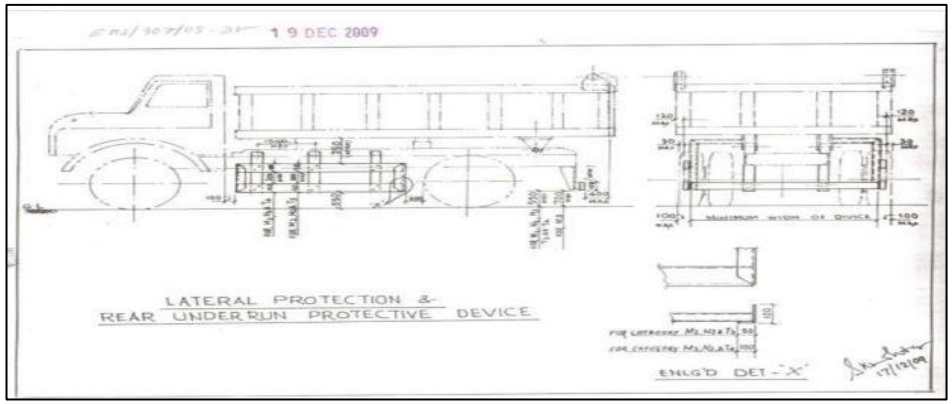
iv. Fitness Certificate of Vehicle

v. Re-registration for vehicles older than 15 years Insurance

The checklist form will be filled in at TSL designated Gate for entry of Customer trucks/vehicles before entry of vehicle.
Requirements:

a) Buzzer with Turning Indicator :- 1st June
b) SUPD & RUPD :- With Immediate effect



b) The drivers of the vehicle must have the eye test certificate. The frequency of the testing would be as below :

i. If the age of the person is less than 45 years – Once in a year

ii. If the age of the person is 45 years or more, the testing is required to be done once in every 6 months

"USE OF HYDRA CRANES BY CUSTOMERS IN ANY PREMISES/LOCATION /STOCKYARDS OF TATA STEEL AND ITS VENDORS/CONSIGNMENT AGENTS' PREMISES IS BANNED".

Important Note:

GPS Installation in Vehicles: GPS will be mandatory for each vehicle entering TSL Works with effect from 1st September 2015, GPS will be installed by vendor E- Trans outside TSL Works gate with a nominal charges of Rs. 100 per vehicle.

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1.5 Safety Check List

S.NO.	SAFETY PARAMETERS TO BE CHECKED
1	Three Piece Mirror(Truck, Trailer & Dumper)-Helper side
2	Single Mirror- Driver side
3	Rear View Mirror (Tata Ace, 207, Jeep etc.)
4	Service Brake
5	Parking Brake
6	Seat Belt
7	Head Light
8	Parking Light
9	Blinker
10	Horn
11	Reverse Alarm
12	Wiper
13	Windshield Glass
14	Air Pressure Min. 7 Kg/Cm^2
15	Run Under Protection Guard as per TSL standard
16	Side under Protection Guard as per TSL standard
17	Tyre Condition (Tread Depth, Cut Mark etc.)
18	Any Oil Leakage from the vehicle
19	Physical condition of Dallah
20	Availability of scotch block
21	Buzzer with side indicator
22	Driver’s eye examination report

LEGAL DOCUMENTS	
S.No.	**Documents to be Checked**
1	RC Book
2	Insurance
3	Pollution
4	Driving license
5	Fitness for more than 15 years old vehicle
6	NOC for outside vehicles

SPECIAL INSTRUCTION REGARDING COVID-19:

1. At the testing centre, travel history of driver and customer representative with valid gate pass is to be submitted for testing slip to be issued. Without proper declaration of travel, testing slip would not be issued which is a mandatory document for entry inside works.

2. It is mandatory to have Aarogya Setu Application installed in the mobile or IVRS verified in case personnel does not have smartphone, and would be duly checked at the testing centre.

3. Customer representative with valid gate pass and driver should have the adequate PPEs including Face Mask and gloves for entry inside works. Removal of face mask or spitting inside works is strictly prohibited.

4. All personnel are required to get the thermal scanning done at the Testing centre to proceed inside works. If anything abnormal is indicated, the personnel would be directed to the nearest medical facility for further tests.

5. Social distancing is to be followed as per the issued government guidelines and must be ensured at all places, including inside works and Transport Park Area.

EXPRESSION OF INTEREST FOR INSPECTION
(To be printed on company letter head)

To

The Manager
valuejunction
mjunction services limited
Godrej Waterside Building Tower 1
Sec-V Salt Lake
Kolkata - 700091

Ref.: Sale of D-Blast Furnace of Tata Steel Jamshedpur Jharkhand

Dear Sir,

We are interested to participate in the upcoming online Auction of D-Blast Furnace of Tata Steel Jamshedpur Jharkhand and we would like to visit the site for detailed inspection on _____, at our own costs and risks.

We agree to follow all the safety norms inside the Plant during inspection. We are made aware that the inspection by our company at the site is to be completed by us within a maximum of ***one*** day and by a maximum of ***two*** people.

It is fully understood and agreed by us that we (including our agents and employees) would be granted permission to visit the Plant site for the purpose of inspection and we shall be fully responsible for any injury (whether fatal or otherwise) to ourselves (including our agents and employees) and for any loss or damage to property or for any other loss, damage, costs and expenses whatsoever caused which but for the granting of such permission would not have arisen. We shall be fully liable to indemnify Tata Steel against any loss or damage to the property of Tata Steel or neighboring property which may be caused due to any act of ours (including our agents and employees).

We are hereby submitting the Company PAN Card copy to mjunction services limited prior to the site visit.

We are providing the details of the personnel who will be visiting the site on behalf of our company and submitting their official photo identity proof.

(A) Name of the Company :_____

(B) Address :_____

(C) Name of the Proprietor/CEO/MD/Director: _____

(D) Contact Telephone No : _____

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(E) Mobile No. : _____

(F) FAX No. : _____

(G) E-Mail : _____

(H) Company PAN No. : _____

I / we confirm that I / we are aware about the terms &conditions for inspection and the items on offer.

The Name & Detail of Persons who will be visiting the site:

Yours faithfully
For M/S

Signature of authorized person
With company seal

Place: Date:

Note: The EOI has to be scanned & sent to: bidyut.ghosh@mjunction.in along with other supporting documents fulfilling the Bidder Qualification Criteria.

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“Photographs of lots are at best indicative only and do not necessarily reflect the actual condition of lots. All bidders are advised to physically inspect the offered lots before participating in the auctions. Tata steel or MJ shall not be responsible or liable for any error of judgement or bids put by bidders acting on the basis of these photographs.” For more details please visit: **www.metaljunction.com**

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