

SNSENGINEERING NTA PRIVATE LIMITED

H1-818-19, RIICO INDUSTRIAL AREA CHOPANKI,

BHIWADI - 301019, Alwar (Rajasthan),

E.MAIL:- sns@snsengg.com, snsengg@yahoo.com

Web:- www.snsengg.com, +919950007848



Sub: Technical and Commercial Offer for Chimney for your Bhiwadi Plant.

Ref No: Your Enquiry e-mail dated 13th Dec 2022 and further discussion with your team time to time

Dear Sir,

We thank you for your above enquiry and are pleased to submit our Techno-Commercial Offer enclosing the following for your kind consideration:

1. Scope of Supply
2. Exclusions
3. Technical Clarifications/ Assumptions
4. Our Commercial Terms & Conditions

SCOPE OF SUPPLY

1. Scope of supply – Designing, manufacturing and erection of Chimney at your site.

S. No.	Item Description	Type	Qty. (Nos.)
1	Chimney (Height-31 Mtr.) Shall be supplied in Five Segments. Bottom Diameter shall be 2200 mm and Diameter at Top shall be 1400 mm	Vertical	1

AS per drawing and discussion.

2. Painting shall be provided as per painting specification. *→ special resistant paint (at initial)*
3. Suitable lifting and handling arrangement (lifting lugs) in all equipment. *→ save / Hddza - JAL scope*
4. Fabrication and Supply of Ladder and platform shall be provided. *→*
5. Foundation bolts. *→*
6. Freight, Transit Insurance and Octroi: Freight, Transit insurance and octroi shall be arranged by us at our cost. *→*
7. Lightning Arrestor shall be provided by us. *→*
8. Aviation Light shall be provided by us. *→*
9. Erection at site shall be done by us. *→*
10. Earthing Lugs shall be provided by us. Earthing wire and connection with Chimney shall be in customer scope. *→*
11. Connecting duct from Blower to chimney shall be provided by us. (Maximum -2 Mtr.) Duct from Foundry to Blower shall be in customer scope. *→*

Sr. No	DESCRIPTIONS	UOM	QTY	UNIT PRICE (RS.)	TOTAL AMOUNTS (RS.)
1	BASIC COST OF DESIGN, MANUFACTURING, SUPPLY OF CHIMNEY ALONGWITH PLATFORM, LADDER AND FOUNDATION BOLTS (Incl of Erections at site)	NO	1		5900000.00 (RS. Fifty Nine Lacs only)

Final Price Rs. 29,50,000/-

Apply weight of the Chimney 22.20 to 22.50 MT.

including foundation plates and

including 60 H.S. party

ESL/PF - party

tools party

take care of safety

APPE followed by party

during erection of Chimney

Civil structural drawing will be provided by party from

Civil - 50% scope



OFFER NO. - SNS/22-23/QTN-89/Mar
 Kind Attn. - Mr. Raj Gopal
 M/S - Jindal Aluminium Limited

DATE: 28th Mar. 2023

EXCLUSIONS

- 1) All instruments, except as mentioned in our BOQ are excluded from our scope of supply.
- 2) All remote/control instrumentation like pressure/ level control station/transmitters etc.
- 3) All Electrical Cables & Trays, Earthing, Illumination System etc.
- 4) Certification from any authority.
- 5) Civil / Structural / Foundation / building for locating the Chimney.

cable from top of chimney to battery limit party supply

COMMERCIAL TERMS & CONDITIONS

1.0 Price Basis: *FOR- JAL BWD, including freight.*
 We clarify that the Prices quoted by us are on Ex-works Chopanki, Bhiwadi (Rajasthan), India basis inclusive of suitable packing.

2.0 Packing & Forwarding Charges: Packing & Forwarding charges are included in the price above.

3.0 Freight, Transit Insurance and Octroi: Freight, Transit insurance and octroi shall be arranged by us at our cost.

4.0 Goods & Service Tax (GST): We have not included the GST in our quoted prices. The same shall be charged extra as applicable.

5.0 Delivery Period: *6 to 8 weeks from the date of PO approval.*
 The Equipment required by you and offered by us shall be delivered within 12 WEEKS after receipt of your technically & commercially clear and firm purchase order along with advance payment and drawing approval in Code-2, good to start manufacturing within one week after submission.

6.0 Terms of Payment:

a) 50% advance after awarding of Purchase Order

b) 50% against Proforma Invoice after your satisfactory inspection and prior to dispatch.

Payment
 → 25% Advance against ABQ Valt for 90 days
 → 65% Basic + 100% GST within 7 days from the date of receipt.
 → 10% after Commissioning.

7.0 Inspection

Third Party Inspection charges shall be arranged by purchaser at their cost. *- N/A*

8.0 Guarantee

We shall stand guarantee for performance of all material and workmanship for a period of 12 months from the date of commissioning or 18 months from the date of dispatch, whichever is earlier.

9.0 Validity

Our offer and the prices shall remain valid for your acceptance for a period up to 30 days from the date of this Offer. Further extension in the validity, if any, will be subject to our written confirmation.

10.0 Force Majeure

Force Majeure shall mean any event beyond the reasonable control of either Party, as the case may be, and which is unavoidable notwithstanding the reasonable care of the Party affected, and shall include, without limitation, the following:

- a) War, revolution, insurrection or hostilities (whether declared or not);
- b) Riot, civil commotion, or civil uprising;
- c) Earthquake, flood, tempest, hurricane, lightning or other natural disasters;
- d) Any fire of major proportions; and
- e) Epidemic v.

11.0 Other Commercial terms & conditions

All the commercial terms and conditions shall be mutually discussed and agreed before award of work.

Discussed with Mr. Abhishek Gupta above.

[Signature]
 21/04/23

M/S. SNS Engineering WTA - Elkhado.

BOQ for Chimney				
Part-1				
Sl No.	Description	Dimension	Qty (No.)	Weight
	Base Plate	Ø2500xØ1900x32 MM	1	521
	Outside Ribs	16x300x500	48	905
	Anchor Chair Plate	32x140x150	24	127
	Inside Ribs	16x300x500	12	226
	Shell Plate	Ø2200x2000x12	1	1318
	Top Flange	Ø2400x2200x16	1	91
	Ribs	12x85x130	37	40
	Bolts, Nuts and Washer	M20x100 Long	36	
	Foundation Bolts	Ø34x2200	24	376
	Nuts	M34	48	
	Washer	16x80x80	24	20
	Anchor plate	32x100x100	24	60
Part-2	Bottom Flange	Ø2400x2200x16	1	91
	Ribs	12x85x130	37	40
	Bottom Shell	Ø2200x2000x12	1	1295
	Reducer	Ø2200xØ2000x12 Height- 1000 mm	1	620
	Top Shell	Ø2000x2000x12	1	1177
	Top Flange	Ø2200xØ2000x16	1	83
	Ribs	12x85x130	37	40
	Bolts, Nuts and Washer	M20x100 Long	36	
Part-3	Bottom Flange	Ø2200xØ2000x16	1	83
	Ribs	12x85x130	37	40
	Shell Plate	Ø2000x6000x10	1	2945
	Top Flange	Ø2200xØ2000x16	1	83
	Ribs	12x85x130	36	40
	Bolts, Nuts and Washer		36	
Part-4	Bottom Flange	Ø2200xØ2000x16	1	83
	Ribs	12x85x130	36	40
	Shell Plate	Ø2000xØ1735x8000x10	1	3925
	Top Flange	Ø1925xØ1735x12	1	55
	Ribs	12x85x130	25	25
	Bolts, Nuts and Washer	M16x85	24	
Part-5	Bottom Flange	Ø1925xØ1735x12	1	55
	Ribs	8x85x130	25	25
	Reducer	Ø1735xØ1400x10000x8	1	3406
	Top Flange	Ø 1590xØ 1400x12	1	45
	Ribs	8x85x130	25	20
	Bolts, Nuts and Washer	M16x85	24	
	Conical Roof	Ø 1600x6mm	1	290
	Ladder and Platform (Gratings)			3000
	Lightening Arrestor			

Aviation Light		
Duct from Blower to Chimney		700
Foundation Template	Ø2500xØ1900x12 MM	390
Blower along with Motor	Customer Scope	
Total Weight of Chimney		22280
Steel weight to buy		25622
Steel Price		1742296
Fabrication Cost		735240
Surface Perperation and Painting		133680
Aviation Light		20000
Lightening Arrestor		20000
Fasteners		70000
Overhead		167100
Erection		1685680
Transportation		120000
		4693996

Handwritten notes:
 22280 → 25622
 1742296 → 1685680
 735240 → 133680
 20000 → 20000
 20000 → 20000
 70000 → 70000
 167100 → 167100
 1685680 → 1685680
 120000 → 120000
 4693996 → 4693996

243680

Erection charges — will be decided

Router

Handwritten calculations:
 22280 @ Rs. 68/- Per kg
 22280 @ Rs. 15/-
 22280 @ Rs. 8/-
 22280 @ Rs. 2/-

Handwritten calculations:
 17,42,296/-
 3,34,200/-
 1,78,240/-
 4,75,600/-
 2,25,000/-
 25,24,296/-
 1,20,000/-
 26,14,296/-
 1,25,000/-
 28,19,296/-

Handwritten calculations:
 25,00,000
 1,20,000
 26,20,000
 2,50,000
 28,70,000/-

Front Panel
 28,50,000

Booms
 60 meters
 where cap - 150 TONS



KRISHNA FABRICATORS

Heavy Equipments Manufacture
& Project Contractors
44B, 10th Cross, 4th Phase, Near Brindavan Bus Stop,
Peenya Industrial Area, Bangalore - 560 058.
Phone : 9845711178 / 9341242237
E-mail : krishnafab44B@gmail.com



ISO 9001 - 2015

Ref. :

Remarks

Date :

Ref: KF/JRM/012/R1/23-24

→ Civil structural drawings are in JAL Scope.

Date: - 20.04.2023

JINDAL ALUMINIUM LIMITED,
Rolling Mill division, KIADB Industrial area, Dobbaspet,
Nelamangala Taluk, BANGALURU Rural Dist. 562111 India

→ Erection, Commissioning, Leave, Hacksaw, Lifting tools - JAL Scope.

Kind Attn: Mr. RAJAGOPAL SARADA

→ Party ~~will~~ ^{will} depute ~~for~~ ^{for} ~~deputing~~ the specialist for erection prepare ~~if~~ ^{if} required

SUB: QUOTATION (REV) FOR FABRICATION & SUPPLY OF M.S CHIMNEY 31 MET HT - 1 NO

Ref : Your Mail Enquiry Dt 08.04.2023

→ I.D fan not considered in the price, existing fan will be used for the chimney.

Dear Sir,

We thankfully acknowledge your enquiry and workout for your job, as per your requirement. We take pleasure to submit our lowest and competitive offer as per your requirement, on Ex our works supply basis.

S N	ITEM DESCRIPTION	UNIT PRICE
1	CHIMNEY, LANDING PLATFORMS, LADDER WITH CAGE FABRICATION & PAINTING (20,346 KG TOTAL CALCUATED WEIGHT) <u>Foundation plate - considered</u>	26,04,288
2	ACCESSORIES LIKE AVIATION LAMP, LIGHTENING ARRESTOR, EARTHING STRIP SUPPORT ETC	60,000
3	FOUNDATION BOLTS M32X2200 - 24 NOS	1,20,000
4	FASTENERS FOR JOINING SHELLS B4.6 GRD PLATED	11,000.00

Rs. 27,95,288/-

Scope of work:-

The scope of work is Raw Material MS IS2062E250, Fabrication at our shop, Finish Painting, as per your requirement, Ex our works delivery → Price Basis: Ex-Works - Bangalore. Approx. Freight - Rs. 1,60,000/- 2 lacs = Rs. 3,20,000/-

Special Note

Transportation to your site & erection is not considered in our scope

→ IGST: 12% Extra.

→ Delivery: 4 to 6 weeks from the date of receipt of order

Terms and Conditions:-

01. Payment : 100% against Delivery
02. Inspection : At our end by your Inspector.

→ Payment: 25% Advance against PI 75% + 100% @ 15 days before dispatch after inspect and clearance from JAL.

(P70)

03. Duties & Taxes: As applicable 18% GST Extra

04. Validity of the quotation 10 days ONLY in view of rising MS RM prices

05. Delivery : AS per mutual agreed dates

We hope our offer is in line with your requirement & you will consider our quotation and release your valuable order at the earliest. Assuring you of our best services at all times.

Thanking you,

For KRISHNA FABRICATORS



(Girish Kumar B.L.)

- Chimney design as per JAL drawing.
- ESI/PF - Not applicable.
- Unloading, shifting at site - JAL scope.
- Warranty: one year workmanship warranty on the chimney subject to erection in front of party engineer.
- Travelling charges for one engineer from B'lore to Blinwadi and return, stay and food facilities are in JAL scope in staff category.

Discussed with
Mr. Girish and agreed above.


21/04/23



DELHI ENVIRONMENTAL SERVICES

ISO 9001:2015 CERTIFIED COMPANY
OIL Add. : House No. H-154, Gall No.-14, Kunwar Singh Nagar, Near Budh Bazar Road, Nangloi, New Delhi-110041
E-mail : delhienvironmental@gmail.com, rkguptaev@gmail.com Website : www.delhienvironmental.com,
Mob. : +91-9911775364, +91-9250655679

Hereby we are pleased to give our proposal for the same assignment, which is as follows:-

Enclosures:

1. Detail of the system
2. Scope of Supply and Price Break-up.
3. Price, Payments Terms & Guarantees.

Chimney

DATA FOR STACK WITH DETAILS

DATA FOR STACK WITH DETAILS		
QNT. OF STACK	01	NO.
HEIGHT OF STACK	31000 MM	
BASE DIA OF STACK	2500 MM	
TOP DIA OF STACK	1500 MM	

DETAILS FOR STACK SPECIFICATION

DETAILS FOR STACK SPECIFICATION		
BASE DIA FLANGE – 3000 MM	THICKNESS 32MM	:
1 st LIFT HEIGHT – 2000 MM	THICKNESS 12MM	.
2 nd LIFT HEIGHT – 5000 MM	THICKNESS 12MM	:
3 rd LIFT HEIGHT – 6000 MM	THICKNESS 10MM	.
4 th LIFT HEIGHT – 8000 MM	THICKNESS 10MM	.
5 th LIFT HEIGHT – 10000 MM	THICKNESS 08MM	:



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 E-mail : delhienvironmental@gmail.com, rkguptaev@gmail.com Website : www.delhienvironmental.com
 Mob. : +91-9911775364, +91-9250655579

ANNEXURE-I PRICE, COMMERCIAL TERMS & CONDITIONS

SR. NO.	DESCRIPTION	PRICE IN RS.
1	Our Prices for Design, Supplies & Installation of Complete STACK CHIMNEY FOR SCRUBBERS System With All Accessories as per Scope of Supplies mentioned in earlier Annexure.	Rs. 74,80,000/- (Without Civil Work) <i>Rs. 65,00,000/-</i>

The above prices are Ex Works Delhi and the following will be Extra as under

A	Packing and Forwarding <i>Excluded in price</i>	2% on Basic
C	IGST Tax on Basic, ✓	18 % on Basic ✓
D	Transit Insurance <i>Party Scope</i>	By Client
E	Works Contract Tax <i>N.A.</i>	As applicable
F	Transportation up to your site Extra <i>Included</i>	Rs. 1,00,000.00 By Client
G	Site Storage, Security Etc. ✓	By Client ✓


SCHEDULE OF EXCLUSIONS :

01. All type of Civil Construction, drain sump and drain channels, Any heavy (lifting Crane/Hydra and any special lining) *→ Arresto → Blinky light → Delhi Enviro - scope.*
02. Final painting at site and grouting of all the Equipments. *→ Vendor Scope*
03. Plant Area, Building Illumination, Ventilation and Earthing. *→ Site Scope.*
04. All pipe work beyond our termination points. *N/A.*

We Care: Waste Water Treatment, Sewage Treatment, ETP, OGT, Air Pollution Control Devices, on Turn-key Basis, O & M & Lining Works

Reg. Address: B-Block, B-623/18, ChandanVihar, NihalVihar, Nangloi, New Delhi - 110 041

→ ESI / PF / Insurance - Party's A/c.

Discussed with Mr. Gupta and agreed above

 21/04/23



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E-mail : delhienvironmental@gmail.com, rk.guptaev@gmail.com Website : www.delhienvironmental.com

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05. Layout of the equipments, piping, cabling and erection has been considered as per our standard layout drawing or as per the client approved drawing as freezed at the time of order. All piping, cabling, erection etc. required extra due to client's specific requirement subsequent to order finalization shall be at extra cost.

06. Design codes standards, features, specifications and supply of all item, quantity, make etc. shall be as per our standard indicated in the proposal OR as per the scope & specifications finalised at the time of order. Any changes in design codes, standards, features, specifications, quantity, makes, addition of items other than specified in the order shall be at extra cost which shall be finalized before the same are supplied. The client shall not alter / delay the works progress and the schedule of payments related to the original order.

07. Transit Insurance matters shall be clients responsibility and any claims for loss, damage shall be lodged by the client with the Insurance company even when the transit Insurance has been arranged by us on behalf of the clients for their convenience. Repairs, replacements for the damage, loss shall be made good at extra cost and not linked to receipt of claim by client from Insurance. ✓ JAL Scope.

08. All equipments, work and services not specifically mentioned as forming part of our offer. (If applicable) ✗ Not applicable.

09. Area required for the Equipments installation as per drawing or layout plan. ✓

Unloading of Chimney - JAL Scope

Shifting from ~~store~~ ^{staged} place to actual site - JAL Scope



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E-mail : delhienvironmental@gmail.com, rk Guptaev@gmail.com Website : www.delhienvironmental.com,

Mob. : +91-9911775384, +91-9250655679

COMMERCIAL TERMS AND CONDITIONS

Delhi Environmental Services has carefully tested and standardized with selected world renowned products and components for its system manufacturing. Although we will provide a test certificate for complete system offered by us. In case if any special test certificate for individual product/component is required, by the client, it will be charged extra by us. N/A

PAYMENT TERMS:

~~50%~~ Advance along with techno-commercial clear Purchase Order.

35% Advance against PB & valid for 90 days

~~40%~~ + IGST against Performa invoice prior to before dispatch the material OR *50%* inspection Of material at Our Workshop. ✓

~~10%~~ after installation & commissioning. ✓

5%

VALIDITY:

~~The offer is valid for 30 days.~~ X

DELIVERY:

We shall complete supply of system as mentioned in our technical specification within 08 - 10 weeks from the date of receipt of Purchase Order along with advance payment. Delivery is subject to force majeure conditions.

GUARANTEE/WARRANTEE:

The equipment supplied is guaranteed for a period of 12 months from the date of commissioning or beneficial operation of plant.

Equipment Guarantee is valid against defective workmanship and /or poor performance of the system only. Our liability is limited to repair or replace



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E-mail : delhienvironmental@gmail.com, rkguptaenv@gmail.com Website : www.delhienvironmental.com,

Mob. : +91-9911775384, +91-9250655679

the same and not subject to any wear and tear or supply of consumable and spares due to regular operation of the system.

This above guarantee is also subject to following:

1. YOU ARE USING SPARE PARTS AND CONSUMABLE RECOMMENDED BY US.
2. TAKING CARE OF PREVENTIVE MAINTENANCE AS SUGGESTED BY US.
3. CHEMICALS & CONSUMABLE REQUIRED FOR DAY TO DAY OPERATION IS NOT COVERED UNDER THE GUARANTEE/WARRANTEE.

STATUTORY VARIATION:

Any change in Govt., duties levies, taxes or policies having direct effect on our above quoted prices will be at customers account for which documentary evidence will be submitted on request.

FORCE MAJEURE CLAUSE:

Our offer is subject to the acceptance of Force Majeure Clause such as Strike, Lockout, Non-availability of raw materials, or Acts of God such as Fire, Flood, Drought, Earthquake, etc. which are beyond our control.

For, DELHI ENVIRONMENTAL SERVICES

R. K. Gupta

+91-9911775384 / 9250655679



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Ref.: DES/2022-23/444

Feb. 18TH 2023

To,
M/s. Jindal Aluminium Ltd.
SP-2/333, RIICO Industrial Area,
Bhiwadi – 301 019
Rajasthan
E-mail: rajgopal@jindalaluminium.com

*Incentivo
Chimney*

Kind Attn : Mr. Rajgopal C. Sarda Ji (Deputy Manager - Purchase)
(Mob.: +91-96111-95368)

SUBJECT : PROPOSAL FOR SUPPLY & INSTALLATION OF STACK CHIMNEY FOR WET SCRUBBERS AT BHIWADI SITE.

Dear Sir,

This has reference to the discussions undersigned had with you, regarding the design & supply of the fume extraction system. We thank you for your enquiry for the above mention supply material. We wish to introduce ourselves as company engage in design, supply, erection and commissioning of water, wastewater and Air treatment systems. Our main focus has been to understand the customer requirements, offer most appropriate solutions at a reasonable price. Since most of our plants have been installed in very prestigious companies, we have ensured that they match the international quality.

Delhi Environmental Services is in the manufacture of ecological wastewater treatment products for both commercial and domestic and export markets. Our range of quality products provides, fast installation, require minimal maintenance and are low impact with an extremely small footprint. They also exceed all present and proposed discharge standards enforced by the State Pollution Boards.

We hope you will find our proposal in line with your requirement. In case you desire any clarification, please contact the undersigned.

We are waiting for your valuable order and to get associated with your esteemed organization.

With best regards,

For, Delhi Environmental Services

R K Gupta
+91-9911-77-5384

Arayavart Industries & Manufacturing Company

J-1266 C Industrial Area Phase-V Bhiwadi Rajasthan India

GSTIN-08BCJPS1286Q22L

Mobile-+91 9811500164

arayavart.industries@gmail.com

QUOTATION

To:		Quotation No.	2223008
M/s	Jindal aluminium LTD Bhiwadi	Date	20.01.23
		Contact Person	Mr Saurabh
		Contact No	+91 9811600164
		Ref. No	As Per Discussion as on

Kind Attn: Mr. Rajgopal

Sir,
We are pleased to quote our lowest possible rate for your perusal & consideration

Sr. No.	Particulars	HSN Code	Price/Unit	MOQ/Set	Net Rate
1	FABRICATION OFF SUPPLY M.S SELF STANDING 1 SET OFF CHIMNEY OF 31 MTR LONG AS PER DRG SHOULD BE DESIGN FOR 2 NOS OF 30T MELTING 1 OF 30 T HOLDING 2 NOS OF MELTING AND 1 NO OF 12T HOLDING FURNACE AS PER ATTACHED DRAWING CHIMNEY DUCT PART NO1. T 12 X DIA 2500 X L 2500 1 NOS PART NO 2 T 12 X DIA 2400XL 5000 1NOS PART NO3 T 10 X DIA2200 L 6000 1 NOS PART NO4 T 10XDIA 2200X L 8000 1 NOS 5.PART NO 5 T 8X DIA 1925X L 8000 1 NOS CHIMANY FLANGE 140X150X32 24 NOS 16X400X200 250 NOS FLANGE DIA 3500X32 6 NOS FOUNDATION BOLT DIA 36 X1500 24 NOS OTHER BOP 300 NOS	8207	80,50,000.00	1	80,50,000.00

Agreed after discussions in detail
Rs. 27,75,000/-

Gross Total:

Terms Of Delivery

Tax-
Validity
Inspection
Transport
Delivery-
Payment:-

Approx weight of the chimney between 22.5m to 23 mt.

All Tax Extra As Applicable
15-days
As Per Requirement
As Actual
9-12 Week

70% advance balance against delivery

INR ~~80,50,000.00~~

1- 2- 3- 4-	Authorized Sign <i>Saurabh Prasad</i>
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→ Chimney will be designed as per Jindal drawing for 31 meters

→ civil structural drawings for making foundation will be provided by party from certified civil engineer.

→ Foundation bolts, foundation plate- INO will be provided; party during civil work.

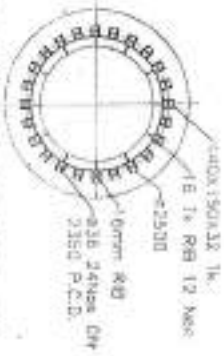
→ Erection and commissioning is included in the above price and party will deploy skilled team for erection of chimney.

→ Required Hoists/Crane/Lifting equipments - JAL Scope.

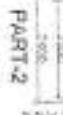
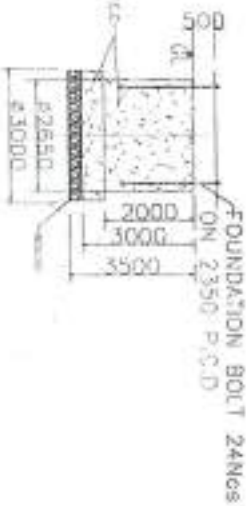
- ESE/PF - will be in party scope and party will provide related documents from their sub contractors.
- ID fan not included in the chimney and will be used existing one from JAL.
- Aviation light, Lightning Arrestor, earthing strip - Party Scope
- Aviation light maintenance mechanism will be provided in the chimney.
- Painting - Inside primer - 2 coats
outer body - heat resistance aluminium paint - 2 coat.
- Price Basis: FOR - JAL BWD.
(Unloading is in JAL Scope)
- GST: 18% Extra.
- Delivery: 40 days from the date of order and approval of QA Drawing.
- Payment: → 35% Advance against CAG with undated cheque for advance value valid for 75 days.
→ 45% Against delivery within 7 days from the date of receipts.
→ Balance 20% After commissioning at site.

Discussed with
Mr. Souabhi and
agreed above

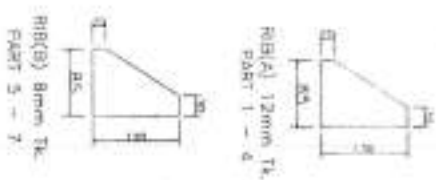
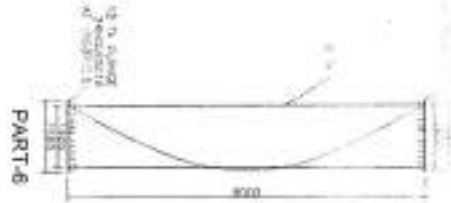
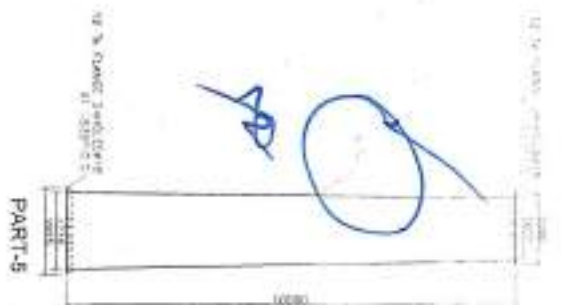

18/04/23



FOUNDATION CPW/C

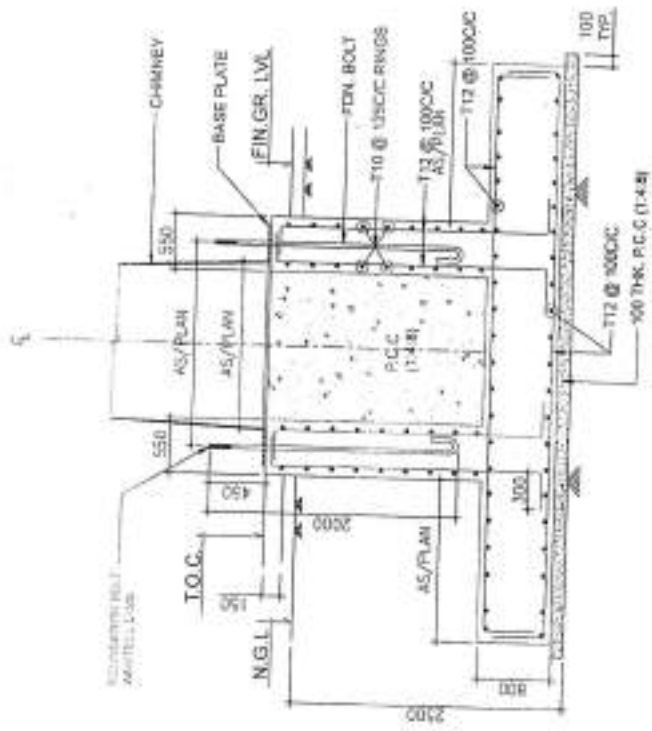


Handwritten blue annotations and signatures.

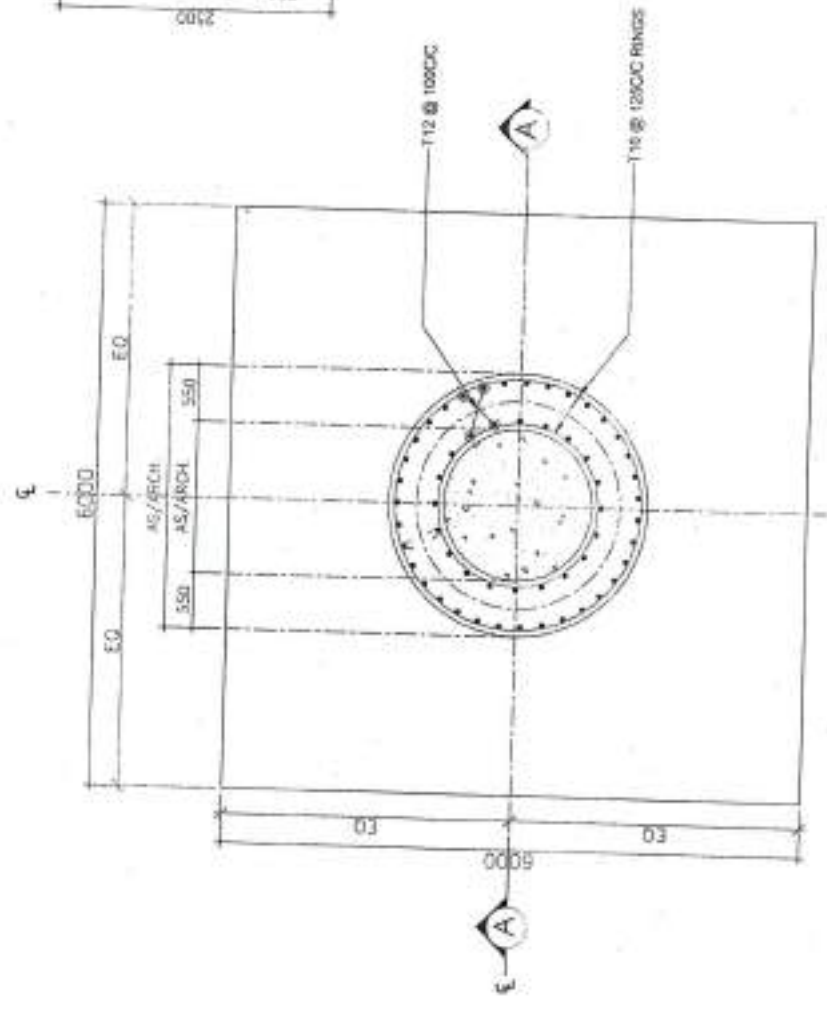


NO.	DESCRIPTION	QTY
1	FOUNDATION BOLT ZANCS	1
2	FOUNDATION CPW/C	1
3	FOUNDATION BOLT ZANCS	1
4	FOUNDATION CPW/C	1

CHAWIN ENGINEERING
Drawing No: CHAWIN-11-11
Date: 11/11/11



SECTION : A-A



FOUNDATION PLAN
SCALE: 1:100

NOTE: FOUNDATION HAVE BEEN DESIGNED FOR 31.0M HEIGHT CHIMNEY ONLY

BOM FOR CHIMNEY

S.No	Description	Dimension	Qty	Rm Length	Rm Width	Rm Height	Raw Weight	Finish Weight	Total Amt.
Foundation	Foundation Bottom Plate	Ø2500x25mm thk	1	2500	2500	25	1226.5625	967	98125
	Foundation Top Plate	Ø2500x25mm thk	1	2500	2500	25	1226.5625	967	98125
	Foundation Nut & Bolt	Ø35x2200mm Long	24	2500	42		408	408	32640
Part No 1							0		0
1	Base Flange	Ø2500X32	1	2550	2550	32	1633.428	320	130674.24
2	Split Flange	Ø2500X32	1	2550	2550	32	1633.428	320	130674.24
3	Inside side Ribs	16X300X500	12	500	300	16	230	230	18400
4	Shell Outer	Ø2200XØ2000X12	1	7500	2000	12	1413	1413	113040
5	Top Flange	Ø2400XØ2000X16	1	2450	2450	16	753.914	95	60313.12
6	Ribs	12X85X130	24	130	85	12	24.98184	25	1998.5472
7	Bolts Nut And Washer	M20X100 Long	36				0	0	0
Part No 2									
	Bottom Flange	Ø2400X16HK	1	2450	2450	16	753.914	95	60313.12
	Ribs	12X85X130	24	130	85	12	24.98184	25	1998.5472
	Bottom Shell	Ø2200XØ2000X12	1	7500	2000	12	1413	1413	113040
	Redusher	Ø2200XØ2000X12 Height 1000 MM	1	6500	1000	12	612.3	612.3	48984
	Top shell	Ø2000XØ2000X12	1	6300	2000	12	1186.92	1187	94953.6
	Top Flange	Ø2200XØ2000X16	1	2300	2300	16	664.424	85	53153.92
	Ribs	12X85X130	24	130	85	12	24.98184	25	1998.5472
	Bolts Nut And Washer	M20X100 Long	36				0	0	0
Part No 3									
	Bottom Flange	Ø2200XØ2000X16	1	2300	2300	16	664.424	85	53153.92
	Ribs	12X85X130	24	130	85	12	24.98184	25	1998.5472
	Shell Plate	Ø2000X6000X12	1	6300	6000	12	3560.76	3561	284860.8
	Top Flange	Ø2200XØ2000X16	1	2300	2300	16	664.424	85	53153.92
	Ribs	12X85X130	24	130	85	12	24.98184	25	1998.5472
	Bolts Nut And Washer	M20X100 Long	36				0	0	0
Part No 4									
	Bottom Flange	Ø2200XØ2000X16	1	2300	2300	16	664.424	85	53153.92
	Ribs	12X85X130	24	130	85	12	24.98184	25	1998.5472
	Shell Plate	Ø2000X1735X8000X10	1	6300	8000	10	3956.4	3956.4	316512
	Top Flange	Ø1925XØ1735X12	1	1950	1950	12	358.1955	63	28655.64
	Ribs	12X85X130	24	130	85	12	24.98184	25	1998.5472
	Bolts Nut And Washer	M20X100 Long	36				0	0	0
Part no 5									
	Bottom Flange	Ø1925XØ1735X12	1	1950	1950	12	358.1955	63	28655.64
	Ribs	8X85X130	24	130	85	8	16.65456	16.654	1332.3648
	Shell Plate	Ø1735XØ1400X10000X8	1	5500	10000	8	3454	3454	276320
	Top Flange	Ø1590XØ1400X12	1	1600	1600	12	241.152	50	19292.16
	Ribs	8X85X130	24	130	85	8	16.65456	16.65	1332.3648
	Bolts Nut And Washer	M20x85	24				0	0	0
Other	Ladder And Platform						5000	5000	400000
	Lighting Arrestor								20000
	Avion Light								20000
	Blower Along With Motor								200000
	Total Approx Weight Off Chimney						32286.61	25000	
	Steel Price						2582848.8		2582848.8
	Fabrication Cost						968568.3		968568.3
	Surface Preparation And Painting						322856.1		322856.1
	Fasteners						36000		36000
	Over Head						193713.66		193713.66
	Erection						250000		250000
	Transportation						120000		120000
	Profit						387427.32		387427.32
	Total Price								5081414.18

