



SUPPLIERS OF HIGH QUALITY  
HOT DIP GALVANIZING PLANTS,  
THERMOPLASTIC PROCESS TANKS,  
POLLUTION CONTROL EQUIPMENT  
AND STORAGE TANKS

A5257



# Arvind CORROTECH LIMITED

## QUOTATION

M/S. JINDAL ALUMINIUM LIMITED

SP- 2/333,  
RIICO Industrial Area,  
Bhiwadi,  
Alwar-301019, Rajasthan, India

Ph.No. : +91 93052 91358  
Email : satyam.paliwal@jindalaluminium.com

Your Ref. : By Mail  
Kind Attn. : Mr. Satyam Paliwal (Dept.:Projects  
-Desg.:Deputy Manager)  
Contact No. : +91 93052 91358  
Email id : satyam.paliwal@jindalaluminium.com

Quotation No. : Q22807  
Quotation Date : 29/05/2023

*Mr. Nizav Dave*

*9978680191*

Ref. Date : 29/05/2023

### 1 PP Lip Duct for existing Tanks

- Existing Tank Size
- Duct Material
- Duct Thickness

- Duct size would be as per existing tank size which is L: 7800 mm X W: 1800 mm X H: 1980 mm
- PP-CP Indian grade Sheet Specially Developed Granules from Reliance as Per Customer application.
- Thickness Top Plate: 15 mm  
Side Wall: 10 mm

*To get complete BOM from suppliers.  
Nizav  
03/06/23*

*203/06/23  
Mr. Ankur / Nandesh → Mr. SMI → Mr. J. → Mr. RPS → Mr. NJT → Mr. Pooja*

*Dear All, Please check the Proposed tech. specs.*

*Pl. get fuel process chart of the system on following pages.  
J. 05/06/23*

*Received  
14/6  
More as per tech team comment  
Specs. with Remarks shared to Party other mail*

*Mr. Rajgopal to discuss with the Party for further process.  
13/06/23*



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**CORROTECH**

# Arvind CORROTECH LIMITED

## QUOTATION

M/S. JINDAL ALUMINIUM LIMITED

Quotation No. : Q22807

### 2 Acid fume Extraction system for Caustic Tanks

*AS per Aerobility*

#### FUME EXTRACTION SYSTEM FOR ACID TANK

*75HP motor/blower is big. To get some design details from supplier*

: As you conveyed you are having 02 nos. of caustic tanks size L- 7800 mm X W- 1800 mm X H- 1980 mm on which you desire to install the fume extraction system. As per the size of tank and numbers of tanks to cover it you require to install one no of 33100 CFM Air Capacity fume extraction system for Two Tank. (One System Required to installed for two numbers of tank.)

: As per the air capacity of fume extraction system the installed power comes to 75 HP. We also provide the variable drive on blower motor so during pickling process you have control on speed of blower impeller. According to the requirement you can adjust the blower speed with the help of VFD and save the energy.

#### ARRANGMENT OF FUME EXTRACTION SYSTEM

- : Fume extraction system having rated capacity of 33100 CFM & 75 HP, systems is suitable for Two Nos. of tanks having inner size: L- 7800 mm X W- 1800 mm X H- 1980 mm. One system shall be complete with suck-through type arrangement with following items /equipments:
- : •PP-CP Indian grade CO 15 EG (RELIANCE Make) material connecting duct between the pp tanks suction Duct outlets to header duct.
- : •PP-CP Indian grade CO 15 EG (RELIANCE Make) material header duct up to scrubber. Scrubbing Arrangement consists inbuilt water Tank, pail ring section, eliminator section, water spray arrangement & water circulating pump.
- : •PP-CP Indian grade CO 15 EG (RELIANCE Make) material Inter connecting ducting between the scrubber Outlets to suction air blower.
- : •SS316 L Suction air blower with FRP lining & motor. The fan shall be complete with all accessories.
- : •PP+FRP material Exhaust air chimney with inter connecting ducting between the out let of Blower to the chimney.
- : •Control panel with variable frequency drive for blower.

#### ACCESSORIES AND ATTACHMENT

##### CONNECTING DUCT FROM TANK TO HEADER

- MOC

- Design

- : PP-CP Indian grade Sheet Specially Developed Granules from Reliance as per customer application.
- : As per Environmental norms and easy to fit at your place

##### SCRUBBER WITH INBUILT WATER STORAGE TANK

- MOC

- Accessories in Scrubber

- Inspection Window

- Benefit to Customer

- : PP-CP Indian grade Sheet Specially Developed Granules from Reliance as per customer application.
- : includes inbuilt water Tank, pail ring made out from virgin PP material, demister-plastic, piping PP, fittings - PP, Valves (inside system) PP, spray header - PP & hardware
- : Easily Visible Inside activity
- : Acidic Water reuse at the time of making a Acid tank

##### SUCTION AIR CENTRIFUGAL BLOWER SWSE TYPE

- MOC

- : SS316L + FRP (Inside + Outside)



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## Arvind CORROTECH LIMITED

### QUOTATION

M/S.	JINDAL ALUMINIUM LIMITED	Quotation No.	: Q22507
- Blower Specification		:	Direct Coupled impeller back plate , shaft, common Channel base frame for motor, drain connection with plug, labyrinth type shaft seal, vibration isolator, bearing SKF/standard make and heavy hub.
- Balancing of blower		:	Fan will be sandblasted before FRP and balancing is done before dispatch.
- Fan Capacity		:	CFM : 33100 // WG : 210 //
<b>ELECTRIC MOTOR FOR BLOWER</b>			
- Motor Capacity		:	75 HP // RPM 1440
- Motor Make		:	Crompton / SIEMENS / ABB / equivalent make as per Availability of Service Centre at your place.
<b>ELECTRIC MOTOR FOR PUMP</b>			
- Motor Capacity		:	05 HP // RPM 1440
- Motor Make		:	Crompton / SIEMENS / ABB / equivalent make as per Availability of Service Centre at your place.
<b>CHIMNEY</b>			
- HOC		:	P.P. +FRP
- Height		:	14 Mtr
- PUMP		:	ALFA/ Standard make, vertical seal & glandless Pump, Volute casing - PP, Impeller - PP, Back Plate - PP, Adaptor - Cast Iron, Leg - Cast Iron, Cage Ring - Cast Iron and mechanical seal.
- SUCTION PLANUM		:	HOC : PP-CP Indian grade Sheet Specially Developed Granules from Reliance as per customer application.
<b>ELECTRICAL CONTROL PANEL FOR MOTOR OF BLOWER AND PUMP WITH FREQUENCY DRIVE</b>		:	Electrical panel complete with enclosure, incoming switch, ON/OFF push button, RPM regulator push button, internal wiring, AMPS meter, Watt meter, etc. AC frequency drive with controls reputed make for blower motor and DOL starter for pump motor



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# Arvind CORROTECH LIMITED

## QUOTATION

M/S. JINDAL ALUMINIUM LIMITED

Quotation No. : Q22807

### 3 Acid fume Extraction system for Anodizing & Electro Color Tanks

*Anodizing*

#### FUME EXTRACTION SYSTEM FOR ACID TANK

*120hp is big. To get design details from supplier.*

As you conveyed you are having 03 nos. of tanks (2 nos. acid & 1 no. electro colour) size L- 7800 mm X W- 1800 mm X H- 1980 mm on which you desire to install the fume extraction system. As per the size of tank and numbers of tanks to cover it you require to install one no of 49200 CFM Air Capacity fume extraction system for Three Tank. (One System Required to installed for three numbers of tank.)  
As per the air capacity of fume extraction system the installed power comes to 120 HP. We also provide the variable drive on blower motor so during pickling process you have control on speed of blower impeller. According to the requirement you can adjust the blower speed with the help of VFD and save the energy.

#### ARRANGMENT OF FUME EXTRACTION SYSTEM

- Fume extraction system having rated capacity of 49200 CFM & 120 HP systems is suitable for Three Nos. of tanks having Inner size: L- 7800 mm X W- 1800 mm X H- 1980 mm. One system shall be complete with suck-through type arrangement with following items /equipments:
- +PP-CP Indian grade CO 15 EG (RELIANCE Make) material connecting duct between the pp tanks suction Duct outlets to header duct.
- +PP-CP Indian grade CO 15 EG (RELIANCE Make) material header duct up to scrubber. Scrubbing Arrangement consists inbuilt water Tank, pall ring section, eliminator section, water spray arrangement & water circulating pump.
- +PP-CP Indian grade CO 15 EG (RELIANCE Make) material inter connecting ducting between the scrubber Outlets to suction air blower.
- +SS316 L Suction air blower with FRP lining & motor. The fan shall be complete with all accessories.
- +PP+FRP material Exhaust air chimney with inter connecting ducting between the out let of Blower to the chimney.
- +Control panel with variable frequency drive for blower.

#### ACCESSORIES AND ATTACHMENT

##### CONNECTING DUCT FROM TANK TO HEADER

- MOC

- Design

- PP-CP Indian grade Sheet Specially Developed Granules from Reliance as per customer application.
- As per Environmental norms and easy to fit at your place

##### SCRUBBER WITH INBUILT WATER STORAGE TANK

- MOC

- Accessories in Scrubber

- Inspection Window

- Benefit to Customer

- PP-CP Indian grade Sheet Specially Developed Granules from Reliance as per customer application.
- Includes inbuilt water Tank, pall ring made out from virgin PP material, demister-plastic, piping PP, fittings - PP, Valves (inside system) PP, spray header - PP & hardware
- Easily Visible Inside activity
- Acidic Water reuse at the time of making a Acid tank

##### SUCTION AIR CENTRIFUGAL BLOWER SWST TYPE

- MOC

- SS316L + FRP (Inside + Outside)



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## Arvind CORROTECH LIMITED

### QUOTATION

M/S.	JINDAL ALUMINIUM LIMITED	Quotation No.	: Q22807
- Blower Specification		:	Direct Coupled impeller back plate , shaft, common Channel base frame for motor, drain connection with plug, labyrinth type shaft seal, vibration isolator, bearing SKT/standard make and heavy hub.
- Balancing of blower		:	Fan will be sandblasted before FRP and balancing is done before dispatch.
- Fan Capacity		:	CFM : 49200 // WG : 210 //
<b>ELECTRIC MOTOR FOR BLOWER</b>			
- Motor Capacity		:	120 HP // RPM 1440
- Motor Make		:	Crompton / SIEMENS / ABB / equivalent make as per Availability of Service Centre at your place.
<b>ELECTRIC MOTOR FOR PUMP</b>			
- Motor Capacity		:	05 HP // RPM 1440
- Motor Make		:	Crompton / SIEMENS / ABB / equivalent make as per Availability of Service Centre at your place.
<b>CHIMNEY</b>			
- HOC		:	P.P. +FRP
- Height		:	14 Mtr
- PUMP		:	ALFA/ Standard make, vertical seal & glandless Pump, Volute casing - PP, Impeller - PP, Back Plate - PP, Adopter - Cast Iron, Leg - Cast Iron, Cage Ring - Cast Iron and mechanical seal.
- SUCTION PLANUM		:	MOC : PP-CP Indian grade Sheet Specialty Developed Granules from Reliance as per customer application.
<b>ELECTRICAL CONTROL PANEL FOR MOTOR OF BLOWER AND PUMP WITH FREQUENCY DRIVE</b>		:	Electrical panel complete with enclosure, incoming switch, On/OFF push button, RPM regulator push button, internal wiring, AMPS meter, Watt meter, etc. AC frequency drive with controls reputed make for blower motor and DOL starter for pump motor.



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M/S. JINDAL ALUMINIUM LIMITED

Quotation No. : Q22807

No.	Item Details	UOM	Quantity	Rate	Amount (INR)
1	PP Lip Duct for existing Tanks HSN/SAC : 39269099 GST : 18.00% Current Tank size - L: 7800 mm X W: 1800 mm X H: 1980 mm → PP duct:	Nos.	5.00	185000.00	925000.00
2	Acid fume Extraction system for Caustic Tanks HSN/SAC : 84145990 GST : 18.00%	Nos.	1.00	3064000.00	3064000.00
3	Acid fume Extraction system for Anodizing & Electro Color Tanks HSN/SAC : 84145990 GST : 18.00%	Nos.	1.00	3831000.00	3831000.00
				Basic Amount	7820000.00
				Sub Total	7820000.00
				IGST(18.000%)	1407600.00
				Grand Total	9227600.00

Amend - PCNA  
3+2

CPD to subscribers - 10 for 3 meters distance

P. ₹ 75,00,000/-

Amount in Words : INR Ninety Two Lakhs Twenty Seven Thousand Six Hundred Only

- Note :-
- \*EXPENSES - Train fare / flight fare / medical insurance / lodging / boarding / food & conveyance of installation team will be in purchaser scope
  - \*SITE REQUIREMENT - Ladder / scaffolding / masonry work / foundation work / RCC work / water / power / compressed air / Valve from Water source to Tank / Cables / wiring and laying / Storage space for tools / Ladder & safety equipment / Loading / unloading / moving for erection of equipment by crane / Hydraulic crane / long boom hydra / pallet truck to be arranged by purchaser as and when required by Corrotech team.
  - \*SITE LABOUR - Helper Assistance to Corrotech Team. Customer to provide reasonable facilities for all our men employed on site.
  - \*WORK PERMIT - All Necessary Work Permits shall be obtained by the Purchaser.
  - \*Security - The Purchaser shall be responsible for providing adequate guarding and protection of the Site on which the equipment is being installed.

Terms & Conditions :-

- Price : Ex-Works Chacharawadi, Ahmedabad
- Packing & Forwarding : 3% On order basic value
- Delivery : Delivery period will be 10 to 12 weeks from the date of technically and commercially clear Purchase Order.
- Payment : 40% Advance And Balance Against Proforma Invoice
- GST : 18% Extra Or At actual
- Freight : Extra
- Insurance : To be paid by you



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## QUOTATION

M/S. JINDAL ALUMINIUM LIMITED	Quotation No. : Q22807
Documentation Charges	: Legalization of document and other documentation will attract extra charges at actual.
Validity	: 30 Days from the Date of Quotation.
Legal Construction	: All dispute and legal matters are subjected to Ahmedabad (India) jurisdiction only.
Inspection	: Inspection and third party inspection will carry out by purchaser at our works and all expenses for inspection will be paid by purchaser.
WARRANTY	: One year for faulty workmanship and defective material.
GSTIN	: 24AANCA9103G2Z5
PAN No.	: AANCA9103G
CIN No.	: U29296GJ2015PLC085088

For, ARVIND CORROTECH LIMITED

Prepared By  
(Haresh)

Approved By  
(NrawDave)

- Price Basis: FOR-JAL BWP.
- GST: 18% Extra.
- Delivery: 10 to 12 weeks for supply and 2 weeks for erection and commissioning.
- Payment: 25% 15 weeks
- 60% + 100% GST ~~to~~ against PI
- 15%
- Warranty: One year from the date of commissioning.
- ESI/PF - Party A/c.
- ~~Delivery Qty.~~ Approx payment will be made at actual qty supplied and to be ~~paid~~ Page 7 of 7
- JAL will provide Batching and Loading - 3 workmen  
1 supervisor

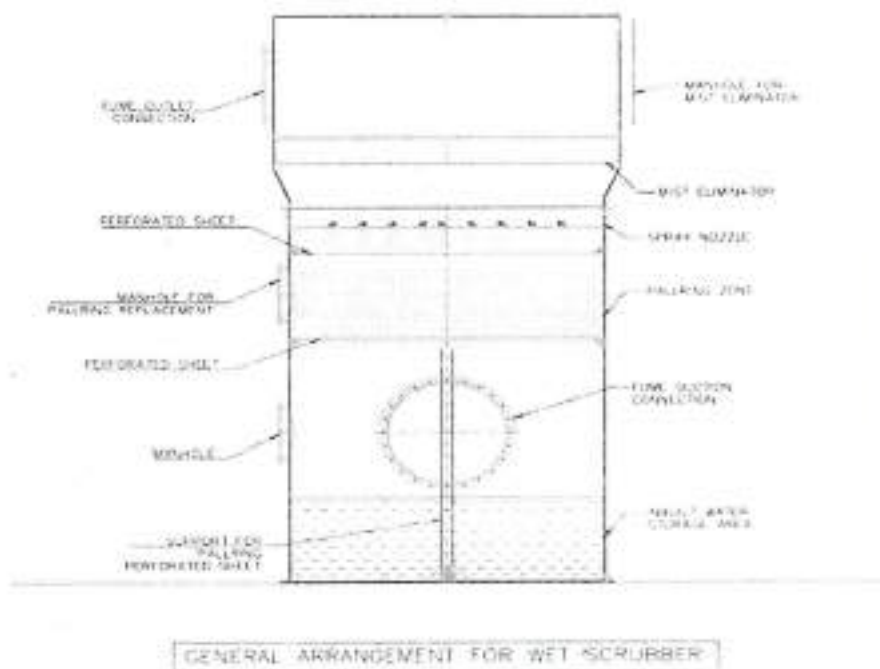
## Rajgopal C. Sarma

**From:** Nirav Dave <niravdave@arvindcorrotech.com>  
**Sent:** 22 June 2023 12:05  
**To:** Satyam Paliwal  
**Cc:** sales@arvindcorrotech.com; 'Kamlesh Prajapati'; Rajat Pallav Singh; Neeraj Jagadish Tewari; Rajgopal C. Sarma; Shankaranand Mishra; Girraj sharan Sharma; Tarun Bansal  
**Subject:** RE: ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Sir,

Kindly find below response for each point:

1. Please share the full process chart of the system.



2. To share complete BOM including Mechanical and Electrical items related to equipment.

The scrubbing system will have below items:

- Connecting duct
- Header Duct
- S Bend Piece
- Scrubber shell
  - Pall ring section
  - In built water tank
  - Self-cleaning PP nozzles
  - Re circulating vertical Pump
  - pH meter connection
- Demister
- Chimney
- VFD



3. The proposed 75HP motor/blower for Caustic Tank is big. To share the design details of the system for choosing the same.

CFM is calculated as per the opening of the tanks and as per the pressure drops during the system, the water column is calculated. Once the CFM & water column is finalized, the HP is selected for the system and as per the size of the tanks and no. of tanks, the proposed system is suitable and sufficient.

4. The proposed 120HP motor/blower for Caustic Tank is big. To share the design details of the system for choosing the same.

This system is for 2 anodizing and 1 colouring tanks. CFM is calculated as per the opening of the tanks and as per the pressure drops during the system, the water column is calculated. Once the CFM & water column is finalized, the HP is selected for the system and as per the size of the tanks and no. of tanks, the proposed system is suitable and sufficient.

Best Regards,



**Nirav Dave**  
Arvind CORROTECH LTD

Mobile: +91 99786 80191

Email: [niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)

Web: [www.arvindcorrotech.com](http://www.arvindcorrotech.com)

Address: Block No.198, Chancharwadi, Vasana Village, Sarkhej-Bavla Road,  
Changodar, Ahmedabad 382 213, Gujarat, India

*Suppliers Of High Quality Hot Dip Galvanizing Plants, Polypropylene Process Tanks, Fume Extraction Systems and Storage Tanks*

**From:** Satyam Paliwal [mailto:[satyam.paliwal@jindalaluminium.com](mailto:satyam.paliwal@jindalaluminium.com)]

**Sent:** 15 June 2023 06:58 PM

**To:** Nirav Dave <[niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)>

**Cc:** [sales@arvindcorrotech.com](mailto:sales@arvindcorrotech.com); 'Kamlesh Prajapati' <[sales2@arvindcorrotech.com](mailto:sales2@arvindcorrotech.com)>; Rajat Pallav Singh <[rajatsingh@jindalaluminium.com](mailto:rajatsingh@jindalaluminium.com)>; Neeraj Jagadish Tewari <[neeraj@jindalaluminium.com](mailto:neeraj@jindalaluminium.com)>; Rajgopal C. Sarda <[rajgopal@jindalaluminium.com](mailto:rajgopal@jindalaluminium.com)>; Shankaranand Mishra <[smishra@jindalaluminium.com](mailto:smishra@jindalaluminium.com)>; Girraj sharan Sharma <[girraj.sharma@jindalaluminium.com](mailto:girraj.sharma@jindalaluminium.com)>; Tarun Bansal <[tarun.bansal@jindalaluminium.com](mailto:tarun.bansal@jindalaluminium.com)>

**Subject:** Re: ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Mr. Nirav,

Thanks for sharing the technical details. We have reviewed the same and given some remarks. Attached file with remarks for your review. Please go through the same and share the updated techno commercial offer.

1. Please share the full process chart of the system.
2. To share complete BOM including Mechanical and Electrical items related to equipment .
3. The proposed 75HP motor/blower for Caustic Tank is big. To share the design details of the system for choosing the same.

- 4: The proposed 120HP motor/blower for Caustic Tank is big. To share the design details of the system for choosing the same.

CC:- Mr. Rajgopal, Please discuss with party for further process against indent D1230600875.

Warm Regards

**Satyam Paliwal**

Deputy Manager - Projects

M: +91 9305-291-358 |



[www.JindalAluminium.com](http://www.JindalAluminium.com)

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**From:** Nirav Dave <[niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)>

**Sent:** Monday, May 29, 2023 4:48 PM

**To:** Satyam Paliwal <[satyam.paliwal@jindalaluminium.com](mailto:satyam.paliwal@jindalaluminium.com)>

**Cc:** [sales@arvindcorrotech.com](mailto:sales@arvindcorrotech.com) <[sales@arvindcorrotech.com](mailto:sales@arvindcorrotech.com)>; 'Kamlesh Prajapati' <[sales2@arvindcorrotech.com](mailto:sales2@arvindcorrotech.com)>;

Rajat Pallav Singh <[rajatsingh@jindalaluminium.com](mailto:rajatsingh@jindalaluminium.com)>; Neeraj Jagadish Tewari <[neeraj@jindalaluminium.com](mailto:neeraj@jindalaluminium.com)>; Rajgopal

C. Sarda <[rajgopal@jindalaluminium.com](mailto:rajgopal@jindalaluminium.com)>; Shankaranand Mishra <[smishra@jindalaluminium.com](mailto:smishra@jindalaluminium.com)>; Girraj sharan

Sharma <[girraj.sharma@jindalaluminium.com](mailto:girraj.sharma@jindalaluminium.com)>

**Subject:** RE: ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Sir,

**Greetings from Arvind Corrotech Ltd.**

We thank you for your valuable inquiry. Please find attached techno commercial offer for your required Fume Exhaust system. Also kindly find attached photograph of the tank manufactured by us for your kind reference. Please feel free to contact the undersigned for any further query/ discussion.

Hope to have a long term business relationship with your esteemed organization.

Best Regards,



**Nirav Dave**  
Arvind CORROTECH LTD

Mobile: +91 99786 80191

Email: [niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)

Web: [www.arvindcorrotech.com](http://www.arvindcorrotech.com)

Address: Block No.198, Chancharwadi, Vasana Village, Sarkhej-Bavla Road, Changodar,  
Ahmedabad 382 213, Gujarat, India

*Suppliers Of High Quality Hot Dip Galvanizing Plants, Polypropylene Process Tanks, Fume Extraction Systems and Storage Tanks*

---

**From:** Nirav Dave [<mailto:niravdave@arvindcorrotech.com>]

**Sent:** 26 May 2023 12:46 PM

**To:** 'Satyam Paliwal' <[satyam.paliwal@jindalaluminium.com](mailto:satyam.paliwal@jindalaluminium.com)>

Cc: 'sales@arvindcorrotech.com' <sales@arvindcorrotech.com>; 'Kamlesh Prajapati' <sales2@arvindcorrotech.com>; 'Rajat Pallav Singh' <rajatsingh@jindalaluminium.com>; 'Neeraj Jagadish Tewari' <neeraj@jindalaluminium.com>; 'Rajgopal C. Sarda' <rajgopal@jindalaluminium.com>; 'Shankaranand Mishra' <smishra@jindalaluminium.com>; 'Girraj sharan Sharma' <girraj.sharma@jindalaluminium.com>

**Subject:** RE: ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Sir,

Thank you for sharing the details. We will get back to you soon.

**Best Regards,**



**Nirav Dave**  
Arvind CORROTECH LTD

Mobile: +91 99786 80191

Email: [niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)

Web: [www.arvindcorrotech.com](http://www.arvindcorrotech.com)

Address: Block No.198, Chancharwadi, Vasana Village, Sarkhej-Bavla Road,  
Changodar, Ahmedabad 382 213, Gujarat, India

*Suppliers Of High Quality Hot Dip Galvanizing Plants, Polypropylene Process Tanks, Fume Extraction Systems and Storage Tanks*

**From:** Satyam Paliwal [<mailto:satyam.paliwal@jindalaluminium.com>]

**Sent:** 25 May 2023 10:52 AM

**To:** Nirav Dave <[niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)>

**Cc:** [sales@arvindcorrotech.com](mailto:sales@arvindcorrotech.com); 'Kamlesh Prajapati' <[sales2@arvindcorrotech.com](mailto:sales2@arvindcorrotech.com)>; Rajat Pallav Singh <[rajatsingh@jindalaluminium.com](mailto:rajatsingh@jindalaluminium.com)>; Neeraj Jagadish Tewari <[neeraj@jindalaluminium.com](mailto:neeraj@jindalaluminium.com)>; Rajgopal C. Sarda <[rajgopal@jindalaluminium.com](mailto:rajgopal@jindalaluminium.com)>; Shankaranand Mishra <[smishra@jindalaluminium.com](mailto:smishra@jindalaluminium.com)>; Girraj sharan Sharma <[girraj.sharma@jindalaluminium.com](mailto:girraj.sharma@jindalaluminium.com)>

**Subject:** Re: ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Mr. Nirav,

Thanks for your response.

As requested, please find attached reference pictures along with the sketch layout of Tanks with tank size for your reference. Only Caustic and Anodizing tanks need to be connected with the scrubber system.

The size of tank is L7800 x W1800 x H1980mm

Total tanks to be connected with scrubbing system - 5Nos (2-Caustic, 2-Anodizing, 1-Electro color)

Space available between tanks - approx. 300mm

Total length of Anodizing line setup - approx. 31mtr

Temperature range for tanks - 25-50degree celcius

Chemicals - Caustic, Sulphuric and Nitric acid.

For any further clarification please contact.

---

**From:** Nirav Dave <[niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)>

**Sent:** Thursday, May 25, 2023 9:22 AM

**To:** Satyam Paliwal <[satyam.paliwal@jindalaluminium.com](mailto:satyam.paliwal@jindalaluminium.com)>

**Cc:** [sales@arvindcorrotech.com](mailto:sales@arvindcorrotech.com) <[sales@arvindcorrotech.com](mailto:sales@arvindcorrotech.com)>; 'Kamlesh Prajapati' <[sales2@arvindcorrotech.com](mailto:sales2@arvindcorrotech.com)>;

Rajat Pallav Singh <[rajatsingh@jindalaluminium.com](mailto:rajatsingh@jindalaluminium.com)>; Neeraj Jagadish Tewari <[neeraj@jindalaluminium.com](mailto:neeraj@jindalaluminium.com)>; Rajgopal

C. Sarda <rajgopal@jindalaluminium.com>; Shankaranand Mishra <smishra@jindalaluminium.com>; Girraj sharan Sharma <girraj.sharma@jindalaluminium.com>

**Subject:** RE: ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Sir,

### Greetings from ACL

We thank you for the valuable inquiry. please provide below details to understand your requirement better and allow us share our techno commercial offer:

- **Tank Size: Length X Width X Height (in mm)**
- **No. Of tank to connect with Scrubber: \_\_\_\_\_**
- **Chemical to be neutralized & its concentration: \_\_\_\_\_**
- **Temperature: \_\_\_\_\_**
- **Plant Layout: \_\_\_\_\_**

Please find attached photograph of scrubbing system installed at various plants. We also provide the enclosure system to our clients. Attaching the reference photo of the same as well for your understanding.

Best Regards,



**Nirav Dave**  
Arvind CORROTECH LTD

Mobile: +91 99786 80191

Email: [niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)

Web: [www.arvindcorrotech.com](http://www.arvindcorrotech.com)

Address: Block No.198, Chancharwadi, Vasana Village, Sarkhej-Bavla Road, Changodar, Ahmedabad 382 213, Gujarat, India

*Suppliers Of High Quality Hot Dip Galvanizing Plants, Polypropylene Process Tanks, Fume Extraction Systems and Storage Tanks*

**From:** Nirav Dave [<mailto:niravdave@arvindcorrotech.com>]

**Sent:** 25 May 2023 09:04 AM

**To:** 'satyam.paliwal@jindalaluminium.com' <[satyam.paliwal@jindalaluminium.com](mailto:satyam.paliwal@jindalaluminium.com)>

**Cc:** 'sales@arvindcorrotech.com' <[sales@arvindcorrotech.com](mailto:sales@arvindcorrotech.com)>; 'Kamlesh Prajapati' <[sales2@arvindcorrotech.com](mailto:sales2@arvindcorrotech.com)>;

'rajatsingh@jindalaluminium.com' <[rajatsingh@jindalaluminium.com](mailto:rajatsingh@jindalaluminium.com)>; 'neeraj@jindalaluminium.com'

<[neeraj@jindalaluminium.com](mailto:neeraj@jindalaluminium.com)>; 'rajgopal@jindalaluminium.com' <[rajgopal@jindalaluminium.com](mailto:rajgopal@jindalaluminium.com)>;

'smishra@jindalaluminium.com' <[smishra@jindalaluminium.com](mailto:smishra@jindalaluminium.com)>; 'girraj.sharma@jindalaluminium.com'

<[girraj.sharma@jindalaluminium.com](mailto:girraj.sharma@jindalaluminium.com)>

**Subject:** RE: ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Sir,

### Greetings from Arvind Corrotech Limited

#### **About Arvind Corrotech**

*Redefining corrosion technology with Innovation & Excellence...*

Arvind Corrotech is an industry leader offering full-spectrum galvanization solutions. Our quality-driven product portfolio comprises Turnkey Hot Dip Galvanizing Plants, Pulse Fired High-Velocity Furnace, Process Tanks, Chemical Storage Tanks, Acid Storage Tanks, Water Storage Tanks, Tanks Used in ETP/STP Plants and Pollution Control Equipment among others.

We have thrived from the wealth of experience, innovation, and excellence-driven solutions. The continued trust demonstrated by customers from across the globe, including the U.S., Canada, the Middle East, South East Asia, Africa, and Australia drives us to deliver impeccable solutions.

We take this opportunity to highlight one of our globally-recognized products **HDG Plant, Acid fume extraction (AFE) systems, Process & Pre Treatment tanks, Acid Storage Tanks, Water Storage Tanks, Tanks Used in ETP/STP Plants.**

#### **Acid/ Chemical/ AFE/ Water Storage and Process & Pre Treatment Tanks :**

Combining our deep domain expertise with the latest technology, we manufacture an excellence-driven range of Acid/ Chemical/ Water Storage Tank. The range is manufactured using premium quality Polypropylene (PP) Sheets & HDPE Sheets. Quality is at the core of manufacturing. Subsequently, our product range is recognized globally for depicting excellent features during the application, including:

- Sturdy design
- U.V. stabilized
- Durable & long-lasting
- Withstands harsh weather environment
- Leak-proof
- Resistant to chemicals
- Resistant to corrosion

Driven by the philosophy of "Innovation & Excellence", we deliver a "Fit and Forget" range of products. Industry's first & only German technology inspired, the Butt fusion welding machines combined with our deep domain expertise enable us to exceed clients' expectations.

#### **What makes us stand out!**

- Exporting to 20+ countries
- Exporting for 05+ Years
- 1500+ Clients
- The product portfolio comprises customized products suitable for client application
- Participation in 50+ International & numerous Domestic Exhibitions

We are committed to your business! Our collaboration will create a mutually beneficial win-win ecosystem. Managing your business priorities and exceeding expectations will always remain at the core of our business. Kindly spare a few minutes to go through the brochure attached for your reference.

Feel free to share queries!

Look forward to a positive response!

Sincerely,

Regards,



**Nirav Dave**  
Arvind CORROTECH LTD

Mobile: +91 99786 80191

Email: [niravdave@arvindcorrotech.com](mailto:niravdave@arvindcorrotech.com)

Web: [www.arvindcorrotech.com](http://www.arvindcorrotech.com)

Address: Block No.198, Chancharwadi, Vasana Village, Sarkhej-Bavla Road,  
Changodar, Ahmedabad 382 213, Gujarat, India

**From:** Satyam Paliwal [<mailto:satyam.paliwal@jindalaluminium.com>]

**Sent:** 24/05/2023 17:39

**To:** [sales2@arvindcorrotech.com](mailto:sales2@arvindcorrotech.com)

**Cc:** Rajat Pallav Singh <[rajatsingh@jindalaluminium.com](mailto:rajatsingh@jindalaluminium.com)>; Neeraj Jagadish Tewari <[neeraj@jindalaluminium.com](mailto:neeraj@jindalaluminium.com)>; Rajgopal C. Sarda <[rajgopal@jindalaluminium.com](mailto:rajgopal@jindalaluminium.com)>; Shankaranand Mishra <[smishra@jindalaluminium.com](mailto:smishra@jindalaluminium.com)>; Girraj sharan Sharma <[girraj.sharma@jindalaluminium.com](mailto:girraj.sharma@jindalaluminium.com)>

**Subject:** ENQUIRY FOR CAUSTIC AND ACIDIC FUME EXTRACTION/SCRUBBING SYSTEM

Dear Mr. Kamlesh,

Greetings!

As discussed over the phone we introduce ourselves as an Aluminium Extruder named Jindal Aluminium Ltd. Our Head Office is Based in Bangalore, India.

Presently we are having Anodizing and Powder coating Facility in our manufacturing unit at Bhiwadi, Rajasthan. Here we require some exhaust solution for Caustic and Acidic Fumes generated during the process.

Please share your profile along with some overview detail of the requested system. Also feel free to contact the undersigned for any type of details required by you.

Waiting for your positive response.

Warm Regards

**Satyam Paliwal**

Deputy Manager - Projects

M: +91 9305-291-358 |



[www.JindalAluminium.com](http://www.JindalAluminium.com)



Rajgopal C. Sarda

Indent No. H DT 230600875

**From:** DTRA Engineers - Dipole <dipoleindia@gmail.com>  
**Sent:** 16 June 2023 13:38  
**To:** Rajgopal C. Sarda  
**Cc:** raunak@dipoleindia.com; info@dipoleindia.com; alka@dipoleindia.com; Dipole SALES  
**Subject:** Re: FW: CAG DOCUMENTS  
**Attachments:** Jindal Aluminium Offer for Fume Extractor System 15-06-2023.docx.pdf

Dear Mr. Rajgopal,

Greetings from Dipole India !

Thanks for your enquiry for Fumes Extractors for Anodizing Line and Pretreatment Line.

As discussed with Mr. Raunak Parashar, kindly check the attachment file for its techno-commercial offer and tentative layout for the same will be sent separately.

Best Regards,

Vikas K  
Admin / Sales

CC: Raunak Sir

DIPOLE® ([www.dipoleindia.com](http://www.dipoleindia.com))  
Factory :-  
M/s DTRA ENGINEERS,  
554, Modern Industrial Estate,  
Bahadurgarh-124507, Haryana. INDIA

Regd Delhi Office :-  
WZ-523/28A, BASAI DARA PUR,  
Near Bali Nagar, New Delhi-110015.  
Opp. Ramesh Nagar Metro Station,  
INDIA.

email:- [info@dipoleindia.com](mailto:info@dipoleindia.com) ; [design@dipoleindia.com](mailto:design@dipoleindia.com) / [dipoleindia@gmail.com](mailto:dipoleindia@gmail.com)

On Thu, Jun 1, 2023 at 1:48 PM Rajgopal C. Sarda <[rajgopal@jindalaluminium.com](mailto:rajgopal@jindalaluminium.com)> wrote:

Dear Sir / Madam,

Please find attached CAG format against our chimney order.

Kindly do the needful to process and provide the same for releasing the payment.

Awaiting your reply,

## DTRA ENGINEERS

554, Modern Industrial Estate, Bahadurgarh, HARYANA, INDIA. [www.dipoleindia.com](http://www.dipoleindia.com)

M/s Jindal Aluminium,  
Bhiwadi, Rajasthan.  
Contact: 9587023308

Date:- 15/06/2023  
Ref:- DTRA/Q/079/2023

Kind Attn :- Mr. Rajgopal

Dear Sir,

This refers to the inquiry regarding your requirement for DIPOLE® Fumes Extractor System.

Based on the discussions and based on the data provided by you we are pleased to offer our most competitive techno commercial; proposal for the same.

We hope this meets your requirements and we are looking forward to receive positive response from your end

Thanking you

Yours truly,

For DTRA ENGINEERS,

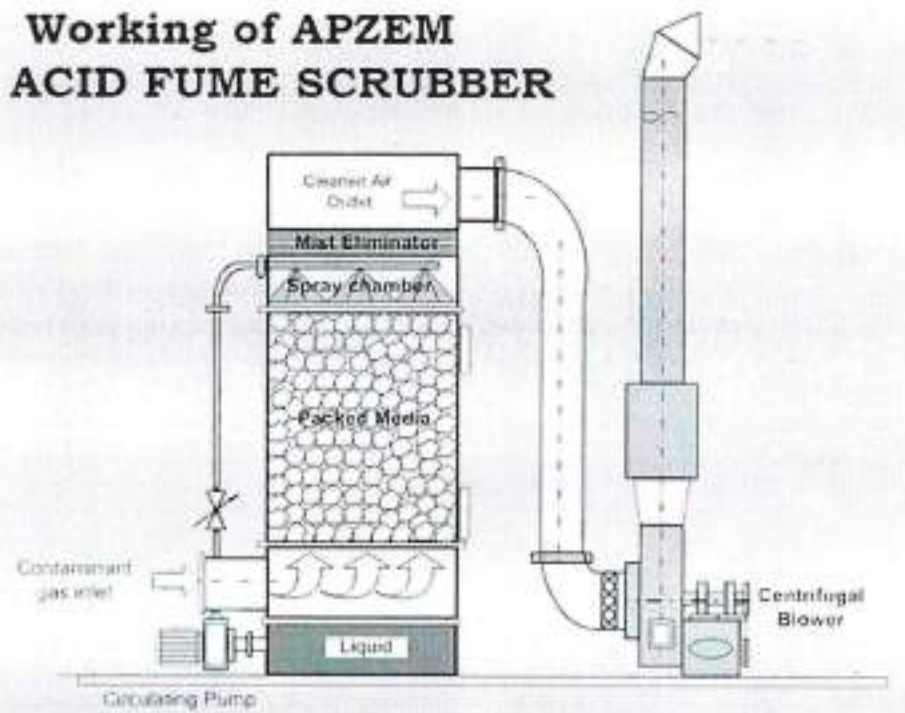
Raunak Parashar  
Sales Head  
Mob. 0-98-111-46922



**BASIS OF DESIGN**

Product	i) Fume Extractor for Anodizing Line Tanks ii) Fume Extractor for Pre-treatment Line
Product Name / Sizes - A	i) Tank Anodizing - 7000 x 1400 x 1800 mm (L x W x H) 4-Tanks <i>5 tanks (2 Caustic + 3 Anodizing)</i> ii) Tank Anodizing - 7000 x 1000 x 1500 mm (L x W x H) 2-Tanks <i>2 tanks (2 Caustic tanks)</i>
Fume Extraction System	<u>Lip Duct</u> on both sides of Tank throughout Length and connected to Main Suction Duct leading it to Fume Extractor with Blowers and Exhaust Duct Fume Extractor with Water Scrubber

**Working of APZEM ACID FUME SCRUBBER**



**Fume Extraction System – Zone Design**

For clean and breathable environment around Anodizing Tanks and PT-Line Tanks and to extract fume generated by process  
Comprising of: Lip Duct / PP Pipes/Frp Coated Duct / Scrubber Unit / Centrifugal Blower with motor / Exhaust Duct

Extraction system will be provided with fume extract exhaust blower, motor, PVC/FRP stand, internal ducting, damper & controls ducting and other necessary accessories. Control of the system will be in main control panel.

Note –

1. Space for installing this unit will be at Both Sides of Cutting Bed in Length.
2. We considered exhaust duct upto 1000 mm out side of roof level & all ducting will be fully vertical & cutout in roof & making water tight the roof after ducting will be in supplier's scope.
3. Wet Scrubber

**PRICE SCHEDULE- Fumes Extractor**

Based on preceding 'technical specifications', 'scope of supply', 'schedule of exclusions' and 'Terms of sales' we offer

FOR ANODIZING (4-Tanks) *5 tanks (2 Caustic + 3 Anodizing)*

Sr. No	Item	Qty	RATE /RS	PRICE RS
1.	PVC FRP Scrubber having Capacity <u>25000 CFM</u> complete with all associate valves, fitting, nozzles Dia 1800 x Height 3800 mm with 2 HP Pump	1 Set	5,50,000/-	5,50,000.00
2.	Supply of PVC FRP Coated Blower having Capacity <u>25000 CFM</u> complete with Base and Anti Vibration Pad - 20 HP Motor	1 Set	2,00,000/-	2,00,000.00
3.	Suction Lip Duct - 8mm PP Sheet - 4 Tanks	8 Set	12,000/-	96,000.00
4.	Supply of PP Duct made with 6mm Thickness PP Sheet Ducting dia - 700 mm, 500 mm, 300 mm	*** 100 sq. Mtr.	3000/-	3,00,000.00
5.	Flexible Hose Pipe Duct for Suction Point	8 Set	3000/-	24,000.00
6.	Erection & Commissioning			1,25,000.00
	<u>Control Panel.</u>		<i>Final Rate</i>	12,95,000.00
Rs. Twelve Lakh Ninety Five Thousand only.				<i>Rs. 12,95,000/-</i>
*** Any Variation above 5% will be chargeable -Extra				

FOR PT Line - Chromotizing (2-Tanks) - *Caustic*

Sr. No	Item	Qty	RATE /RS	PRICE RS
1.	PVC FRP Scrubber having Capacity <u>12000 CFM</u> complete with all associate valves, fitting, nozzles Dia 1000 x Height 3000 mm with 1 HP Pump	1 Set	4,00,000/-	4,00,000.00
2.	Supply of PVC FRP Coated Blower having Capacity <u>12000 CFM</u> complete with Base and Anti Vibration Pad - 10 HP Motor	1 Set	1,25,000/-	1,25,000.00
3.	Suction Lip Duct - 8mm PP Sheet - 2 Tanks	4 Set	8,000/-	32,000.00
4.	Supply of PP Duct made with 6mm Thickness PP Sheet Ducting dia - 700 mm, 500 mm, 300 mm	80 sq. Mtr	3000/- ***	2,40,000.00
5.	Flexible Hose Pipe Duct for Suction Point	8 Set	3000/-	24,000.00
6.	Erection & Commissioning			75,000.00
Rs. Eight Lakh Ninety Six Thousand only.				8,96,000.00
*** Any Variation above 5% will be chargeable -Extra				

FREIGHT - Extra - As actual / GST@18%

DIPOLE®

- 4 -

To clarify the CFT calculation criteria for both the units.

To Combine P/C Caustic tanks with Anodizing tanks ducts for Common Extractor/Scrubber

Cost for design from PE plant to scrubber is extra

*Final Rate*  
*Rs. 12,95,000/-*

*MS Storage - JAL SCO*

*Rs. 7,79,520/-*  
*Rs. 19,04,520/-*

**2. TERMS AND CONDITIONS OF SALES**

1.	The quoted prices from our works.
2.	<b>GST :</b> Extra as Given below or as applicable at the time of dispatch For all Goods Supplies – 18 % For All Services of E&C – 18 %
3.	<del>Freight: To Pay at actual (Customer Scope)</del> <b>FOR - JAL BWP</b>
4.	<del>Erection &amp; Commissioning: As Quoted</del> <b>Included in price.</b>
5.	<del>Ducting: Client Scope or @1550/- per sq.mtr.</del>
6.	<b>Packing: NIL</b> ✓
7.	<b>Inspection:</b> If necessary, the goods will be offered for visual inspection only at our works/our supplier's works. The date of inspection will be intimated by us about 10 days in advance and confirmed by you accordingly. If inspection is not carried out on the date so advised, we shall be free to dispatch the consignment as per terms of delivery.
8.	<b>Delivery:</b> <b>45 days</b> ✓ Material dispatch: <b>8-12 weeks</b> after receipt of confirm order with advance. Erection & Commissioning. 3-4 weeks after handover of the site for erection work. Unloading and safe possession of materials at the site is the responsibility of the buyer. Boarding And Lodging In Client Scope
9.	<b>Payment terms:</b> <b>with cargo + Cbe</b> <b>Supply:</b> 40% amount of order value shall be made along with the firm order, 50% of order value plus 100% of taxes and duties would be made against Performa invoice on pro rata basis before dispatch, 10% shall be payable after successful erection → <b>PBG</b>
10.	<b>Validity:</b> Our offer shall remain valid for a period of 30 days from the date of offer.
11.	<b>Jurisdiction:</b> All the contracts between purchaser & ourselves are deemed to be entered at Haryana and therefore subject to jurisdiction of civil court in Haryana .
12.	<b>Warranty</b> a. All our equipments are thoroughly tested before dispatch and therefore can be depended upon for long trouble free service. We undertake to make good, by replacement or repair, defects arising out of faulty design, material or workmanship, excluding those due to wear and tear within 15 months of the date of dispatch or 12 months from the date of commissioning whichever is earlier, providing that if we do so require, the parts in respect of which complaint is made, must be dispatched from the purchaser's site to our works at the expense of purchaser. Before liability can be entertained under this clause such expenses will be refunded if our liability is admitted. b. Bought out components such as motor, pumps, burners, etc. are guaranteed by us only to the extent of guarantee given to us by respective suppliers. c. This warranty will be valid subject to: i. The plant is commissioned by us and erection carried out as per our drawing and no alterations are made in the plant without our specific consent in writing. ii. Plant is operated and maintained by competent technical personnel of the purchaser, as per our operations and maintenance manual. However, in case of any complaint regarding the performance of our plant, we will be free to send our engineer to look in to the problem, make any alteration / modification that may

→ During ducting qty approx will be made actual qty based on one from one

→ Two scrubbers for Anacizis and coating strounce - 500000

Considered pay on installation of items - JAL will provide for erection & team from BWP

Discussed with Mr. Ranak and agreed above.  
17/06/24