



# CITYLITE

General Trading LLC



DUBAI PEARL BUILDING, OPP.  
HABIB BANK AG ZURICH, OFFICE  
NO. 207, BANIYAS, ABRA ROAD,  
DEIRA, DUBAI

+971 4 491 9998  
[www.citylite.ae](http://www.citylite.ae)

# About Company

Since 1997 with a growing Journey of **CityGold** Group **Mr. Mustafa Sheik Mohammed** along with his son **Mr. Ahmed Rafiq Mustafa** (founders CityGold). Under Mr. Ahmed Rafiq's guidance diversified the business and started **MFG Consumer Products** in **2005** and **CityLite General Trading LLC**, in **2022**.

With a vision of creating best FMCG products from India to the International Markets and strong brand ownership, being able to provide our customers with the finest products at an affordable price. We are proud to be one of UAE's most passionate and respected company. At **CityLite General Trading LLC** we pride our selves on working with our customers to ensure their success through providing Innovative solutions tailored to their needs.

With a best experienced team in their specific fields we are one of the leading exporters and importers of **Sugar, All Purpose Flour, Frozen Meat, Poultry, Eggs, Fruits & Vegetables, Spices, Organic Products, Alim's Ready to Cook Products, other FMCG products and Gem Stones**.

**CityLite General Trading LLC** made **MOU** with **FixoBoard, Maharashtra, India Manufacture of PVC/WPC Ply, Digital Doors, and Paver Blocks** etc, and **MaxMoc Motor Works, Dindigul, Tamilnadu, India, Manufactures of Exhaust After Treatment Systems for Diesel Engines** to introduce and market their products in international Markets.

# About Company

With specialized field retail consultants in each major country and an internal customer service team built around a market leading fully integrated sales, marketing, ordering and fulfillment system it allows our customers to transact with us in the most time efficient and convenient manner.

Our customer base consists of leading major Importers and Exporters along with grocery stores, hamper companies, distributors, independent hypermarkets, delis, fruit and vegetable specialists, department stores, gifting stores and gourmet retail outlets.

**CityLite General Trading LLC**, exports to major specialty food retailers throughout UK, USA, New Zealand, Singapore, Hong Kong, Iraq, Iran, Jordan, Kuwait, Malaysia, Europe, Thailand, Vietnam, Philippines, Turkey and Ukraine. From our humble beginnings, selling our products in Farmers Markets and Field Days through out India our brands and products are now also available across the globe. With a strong leadership of Mr. Ahmed Rafiq Mustafa we are proud to be among the well established and trusted exporters around the globe

# Meet Our Team



**Ahmed Rafiq Mustafa**  
*Partner/M.D*



**Hassan Eid Yacobb Alhsyni**  
*Financial Advisor*



**Jaffer Sadiq Mustafa**  
*Partner*



**Ayesha Chaudhary**  
*Manager*  
*Imports & Exports*



**Mohammed Mustafa**  
*Partner*



**Syed Ataur Rahman**  
*Manager*  
*Sales & Marketing*



# Vision

At City Lite, we believe that our success relies on the healthy relationship we nourish with the farmers, local suppliers, quality inspectors, buyers, sellers and everyone involved in the supply chain. With the backing of talented and experienced quality controllers, we ensure the quality the buyers demand in the solution we provide. City Lite actively merchandises commodities such as whole spices, tea leaves, frozen & chilled boneless buffalo meat, mutton, chicken, rice, flour, frozen vegetables, sugar, oil and all other daily consumable products, in and out of the region.

We want to be the best reference when it comes to create a bridge between buyer and seller, our background and expertise in the production and trading of materials additivities the necessities satisfaction for both buyer and seller level, this is what distinguishes us from the competition.

# Mission

We aim to develop a strong bonding between buyer and seller, our goal is to offer the best quality, rate, service and timely delivery to buyers and give the seller the best cost accurately. We strive to be a partner for our customers by aiming for the highest quality and offering reliable solutions

# PRODUCTS



**Sugar**



**All Purpose Flour**



**Basmati Rice**



**Indian Spices**



**Frozen Products**



**Fruits & Vegetables**



**Aalim's Ready to Cook Products**



**Frozen Meat**



**Lentils**

# PRODUCTS



**Dry Fuits**



**Indian Tea**



**Food Stuffs**



**Gem Stones**



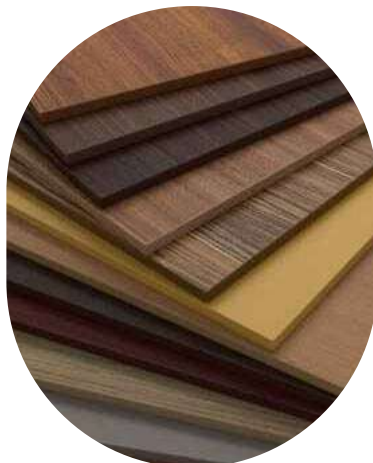
**Fire Extinguisher**



**Marbles & Ceramic Tiles**



**Imitation Jewellery**



**PVC/WPC Board**



**Exhaust After Treatment System**



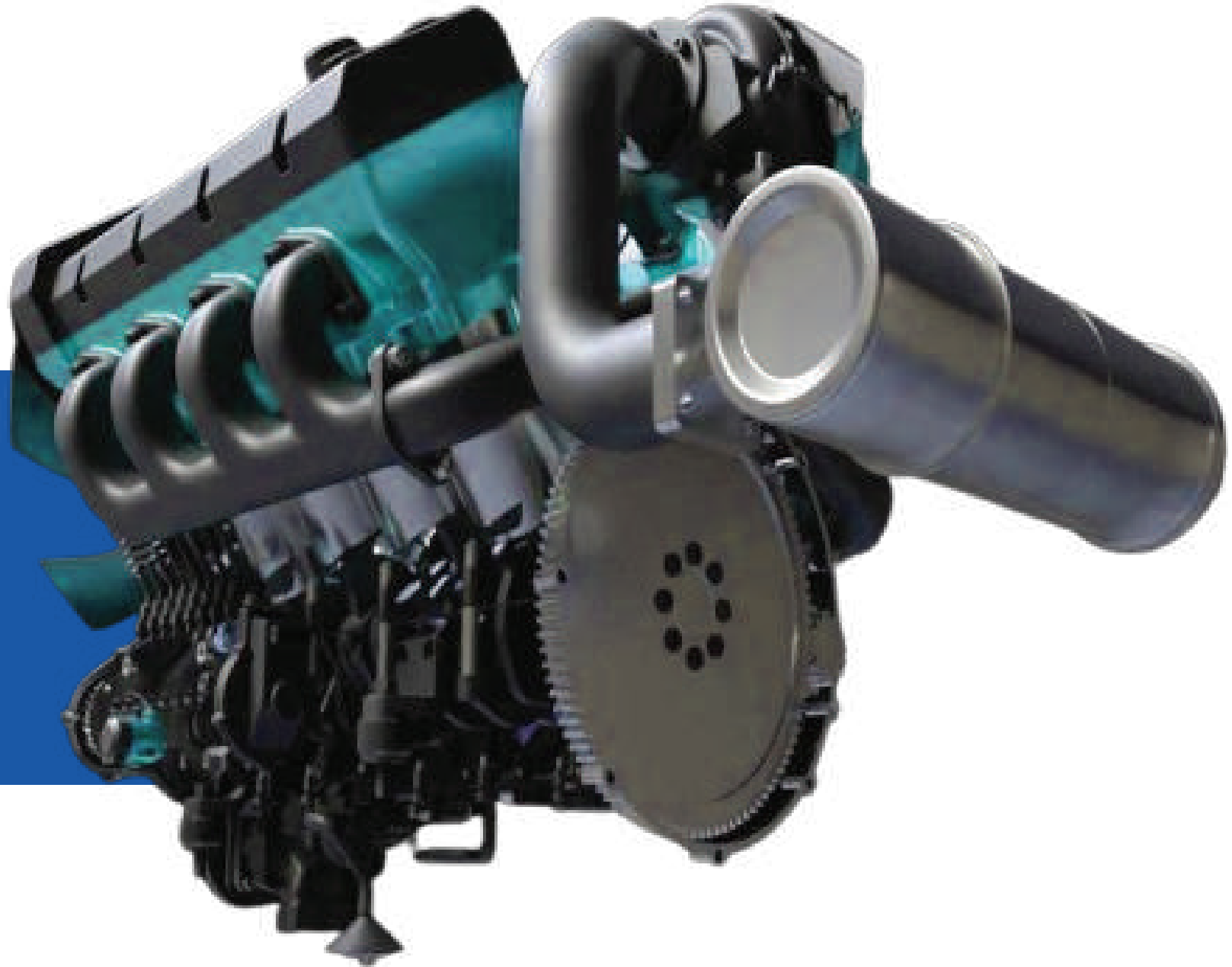
# PRODUCTS



**Dual Fuel Kit**



**After Exhaust  
Treatment System**





# Emission Testing

 Cleaner Air, Safer Tomorrow



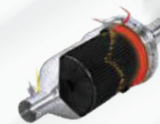
Engine Out



Others POC



HJS - pSMF



HJS SMF



# Board of Directors



Sathish Kumar Murugan

**Chairman,**  
*100/2A Alamarathupatti,  
Dindigul, Tamilnadu,  
India-624303*



Sathya Bama

**Director,**  
*100/2A Alamarathupatti,  
Dindigul, Tamilnadu,  
India-624303*



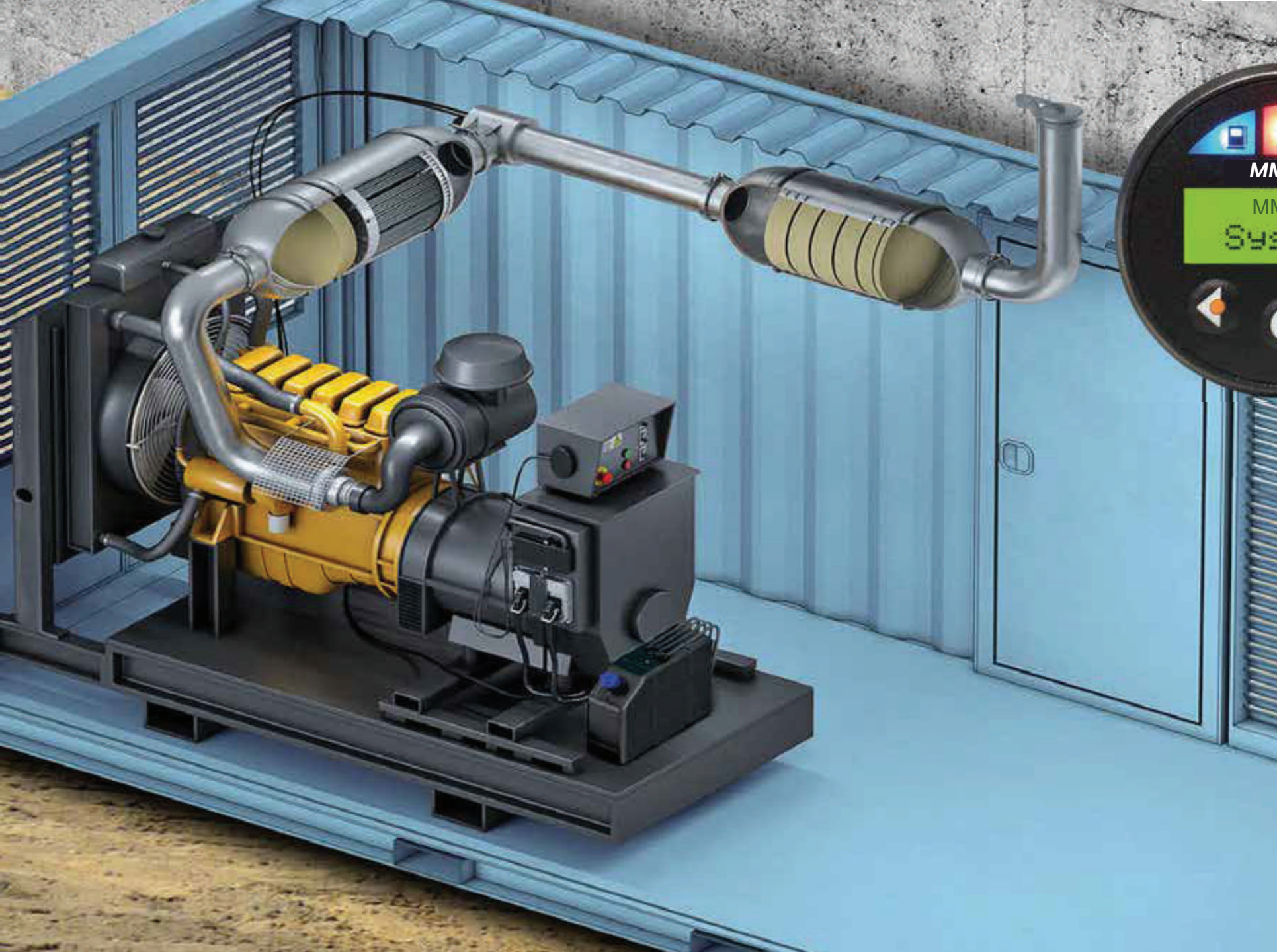
Ahmad Rafiq Mustafa

**Director,**  
*105, Gordon Hall APTS,  
Flat 61, C wing ,  
6th Floor , Sofia Zuber Road,  
Nagpada, Mubai, Maharashtra,  
India - 400008*





# Genset Retrofit





# Type Approval Certificate



अंतर्राष्ट्रीय ऑटोमोटिव प्रौद्योगिकी केन्द्र  
INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY  
[A Division of NATRIP Implementation Society (NATIS), Govt. of India]

COI 0557

## TYPE APPROVAL CERTIFICATE

FDR

Retro-fit Emission Control Devices (RECD) Compliance

Date : 05<sup>th</sup> March 2024

Cert	Report	Specs	Drp	Total
05	11	58	02	76 pgs

1. Based on the verification of documents & tests conducted on RECD model "MMWDAT-SAT.2" (Family designation DAT-SAT-2 Filter) for below mentioned manufacturer/reporter and it is certified that the following RECD model complies with the provisions of Type Approval of CPCB System Procedure for Retro-fit Emission Control Devices (RECD) Compliance to Diesel Power Generating Set Engines up to Gross Mechanical Power 600 kW, as per NGT Order/report filed in O.A. No. 88/2018 dated 06.08.2018.

Documental Reference		RECD Supplier (Manufacturer/Importer)	
Current Certificate	M/s Maxmoc Motor Works India Pvt. Ltd. 273/3B Ponnusamy Nagar, A Zone, Alkkuvarpetti, Dindigul - 624001 Plant / Warehouse: Dindigul & Noida	RECD Manufacturer	Import Category
Brand Name	RECD Manufacturer	M/s HJS Emission Technology GMBH & Co.KG (H) M/s Dieselweg 12, 58706 Manden (Sauerland), Germany	M/s Maxmoc Motor Works India Pvt. Ltd., 273/3b Ponnusamy Nagar, A Zone, Alkkuvarpetti, Dindigul - 624001
MMWDAT-SAT	RECD Family Designation	Engine Manufacturer	Tested Engine Model
DAT-SAT-2 Filter	RECD Model	M/s Cummins India Limited	6L6.9TAA-G4
RECD Model	Engine Cubic Capacity	Gross Engine Power	
MMWDAT-SAT.2	6880 cm <sup>3</sup>	250 kW @ 1500 rpm	
Engine Baseline emissions	CPCB Stage-II	Class of RECD	Class II
S. No.	Item Description	Engine Manufacturing Date	March 2018
		Parent RECD Type	Annexure-II
		Annexure-II	

2. Validity of the Certificate

This Type Approval Certificate is valid for Diesel Power Generating Set Engines up to Gross Mechanical power 600kW as per NGT Order/report filed in O.A. No. 88/2018 dated 06.08.2018 or until further amendment in the MoEFCC rule, whichever is earlier.	As per System and procedure for Emission Compliance of Retro-fit Emission Control Devices (RECD) for Diesel Power Generating Set Engines up to Gross Mechanical power 600kW as per NGT Order/report filed in O.A. No. 88/2018 dated 06.08.2018 or until further amendment in the MoEFCC rule, whichever is earlier.
No change in specified RECD technical specification.	

3. It is certified that the above RECD Model (Details listed in Annexure-I) comply with the emission limits for Retro-fit Emission Control Devices (RECD) to Diesel Power Generating Set Engines having Gross Mechanical Power 109.6kW to 248.6kW, as prescribed under the following rules, notified by Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India:

Rule No.	Description	Date
CPCB-PCL/12/2014-22	System and procedure for Emission Compliance of Retro-fit Emission Control Devices (RECD) for Diesel Power Generating Set Engines up to Gross Mechanical power 600kW as per NGT Order/report filed in O.A. No. 88/2018 dated 06.08.2018	01.02.2022

4. COP : COP shall be completed by 30.06.2024 as per CPCB Procedure, for details refer COP Annexure-I.

AUTHORISED SIGNATORY	
 SITARAM KASHYAP DEPUTY GENERAL MANAGER	 SAURABH DALELA DIRECTOR

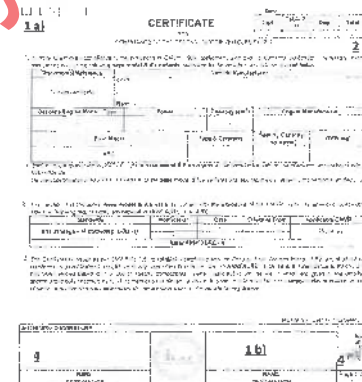
### DISCLAIMER

- ICAT issues "Type Approval Certificates" (TAC) for vehicles/ engines/ gensets/ parts/ assemblies etc. based on the documents produced and/or prototype / vehicle(s) submitted by the applicant and testing thereof.
  - ICAT issues TAC in compliance to Motor Vehicle Act/ Central Motor Vehicle Rules/ Central Pollution Control Board rules and their provisions as amended from time to time or any other statutory orders under which ICAT is authorized. Other Rules/Acts are outside the purview/scope of the TAC.
  - Test(s) on prototype is/are carried out on the basis of standard procedures as notified under specific rules. Results of such tests are property of bearer of TAC. Those results cannot be disclosed unless specifically ordered by Government, Court, etc.
  - The bearer of the TAC is under the obligation to ensure production strictly as per the provisions of the specific TAC.
  - ICAT is not responsible for testing each vehicles/components/parts/assemblies etc. for which TAC is issued. Further, ICAT is not responsible for ensuring manufacturing quality of the type approved vehicles/ components/ parts/assemblies etc.
  - ICAT is no way responsible for any misuse or copying of any design/type/system in connection with the vehicle/ components/parts and assemblies covered under the TAC.
  - Breach of any statutory provision of Indian laws or laws of other countries, will be sole responsibility of the bearer of the TAC and ICAT shall not be liable for any claims or damages. The bearer shall alone be liable for the same, and shall undertake to indemnify ICAT in this regard.
  - ICAT has the right, but not under obligation to initiate cancellation / withdrawal of the certificate issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ICAT.
- The appropriate local court at Gurugram shall have the jurisdiction in respect of any dispute, claim or liability arising out of this certificate/report.

### SECURITY FEATURES

This certificate has the following security features:

- Ultraviolet (UV) printing : This certificate contains following the information printed in UV ink which can be read only under UV light:
  - Certificate number (below the certificate number on the top left side)
  - Signature of Director (bottom right side)
- Pantograph (top right below the number of pages) : This box will appear only on original document.
- Watermark (diagonally in the background on full page) : The watermark consists of company name and model name
- Micro text (horizontal line in signature boxes) : The thin hairline consists of company name and model name
- Secure Mark (topmost right) : The QR code consists of company name, certificate number & date and model name





COTG 0057

Date : 09<sup>th</sup> March 2024

COP Annexure-I

Criteria*	COP Required
RECD Manufacturer/Importer/Retrofitter	RECDs fitted on engines of all ratings shall be subjected to the verification of CoP once for every 500 units per family or once a year, whichever is earlier Wherever applicable, RECDs fitted on engines of all ratings of engines shall be subjected to the verification of PCD once every CoP-year by PCD family (ies) representative RECD(s). Such demonstration is PCD family dependent and irrespective of combined volumes produced and sold under such family (ies)

\* As Applicable

Annexure-II

S No	Item Description	Parent RECD Type
		Type I
1	Manufacturing Plant / Warehouses address	M/s Maxmoc Motor Works India Pvt. Ltd. (i) S.F. No. 3/94, N. Panjampatty, NH44, Dindigul to Madurai Main Road, Alamarathupatti PO, Dindigul - 624303 (ii) S.F. No. 70/1A, Balakrishnapuram Village, Dindigul East Taluk, Dindigul (iii) No. C-14, Sector-8, Noida, Uttar Pradesh-201301
2	Manufacturer's trade name or mark	M/s Maxmoc Motor Works India Pvt. Ltd.
3	RECD family designation	DAT-SAT-2 Filter
4	RECD type/model designation	MMW/DAT-SAT.2
5	RECD Category (Domestic/Imported)	Imported
6	Class of RECD	Class II
7	Type Identification of the RECD	Continuous
8	Location of type ID marking	Refer Specification no. MMW/RECD/05/03/24 dtd. 05/03/2024 Clause no 1.8
9	Identifying part number(s) of the RECD	DAT SAT 2 SERIES 6000
10	Engine/ Engine-Family for which the RECD is intended (application range)	6L8.9TAA-G4
11	PM Reduction Efficiency of the RECD	96.00%
12	Designed for fitment to an engine meeting the emissions requirements of (Regulation and Stage):	CPCB Stage-II

ICAT Ref No. 2023-2163; IOCS No: 174180

Base Engine Type Approval Certificate number ARAM/MEF/DGTA/CILP-F56/2015-25

Test Report Reference CT0ET 0093 dt. 07/03/2024

AUTHORISED SIGNATORY

Sitaram

SITARAM KASHYAP  
DEPUTY GENERAL MANAGER



Saleela

SAURABH DALELA  
DEPUTY GENERAL MANAGER



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Date : 09<sup>th</sup> March 2024

Annexure-III

List of applicable engine(s) as per 771(E) dtd. 11.12.2013 and GSR 232(E) dtd. 31.03.2014 Phase II certified In-Use DG sets for corresponding RECD models of RECD Family.

S. No	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
1	Ashok Leyland Ltd., No.1, Sarder Patel Road, Guindy, Chennai - 600032 & Ashok Leyland Ltd., 175, Hosur Sipool Industrial Complex, Rajeevi Nagar, Hosur- 635126	F25	AL8DTIDG4	147 kW	ARAM/MEF/DGTA/ALL-F25/2014- 02-E1 Dated: 26-Jul-2014
2			AL8DTIDG2	116 kW	
3			AL8DTIDG3	130 kW	
4	Ashok Leyland Ltd., No.1, Sarder Patel Road, Guindy, Chennai - 600032 & Ashok Leyland Ltd., Kuthirakuram High Road, P.O.Box No.3, Ennora, Chennai-60005	F40	AL8NTIDG6	223 kW	ARAM/MEF/DGTA/ALL-F40/2015- 11-E1 Dated: 2-Sep-2016
5			AL8NTIDG5	180 kW	
6		F50	AL8NTIDG6	181 kW	ARAM/MEF/DGTA/ALL-F50/2022- 19 Dated: 03-February-2022
7	Cooper Corporation Pvt. Ltd, Plot no. M60-1, Engine Division Post- Kodoli, Addl. MIDC Satara, 415003 & Cooper Corporation Pvt. Ltd, Plot no. M60-1, Engine Division Post- Kodoli, Addl. MIDC Satara, 415003	F14	6G5D1C2281W	228 kW	ARAM/MEF/DGTA/CCPL- F14/2017-07 Dated: 18-Aug-2017
8			6B5D1C190RW	190 kW	ARAM/MEF/DGTA/CCPL- F10/2014-04- E1 Dated: 17-Aug-2015
9			4B5D1C113RW	113 kW	
10			6B5D1C150RW	150 kW	
11			6B5D1Q17DRW	170 kW	
12		F1	7CD2013L064V	250.7 kW	ARAM/MEF/DGTA/IMP/DEIPL- F1/2015- 01 Dated: 11-Sep-2015
13	Deutz Engines India Pvt. Ltd., 6, Ramnath Ambekar Road, B Wing, 4th Floor, Heritage House, Pune 411001, Maharashtra, India & DEUTZ AG Ottostrasse 1, D-61149, Köln (Porz- ES) / Germany	F4	7CD2013 L062V (D3UC151)	151 kW	ARAM/MEF/DGTA/IMP/DEIPL- F4/2016- 04 Dated: 06-June-2016
14			7CD2013 L062V (D3UC130)	130.5 kW	
15	Cummins India Limited, Cummins India Office Campus Tower A, 5th Floor Survey No. 21, Balewadi, Pune 411045 & Cummins India Limited, Asia Pacific Distribution Center Plot no. 2, MIDC Phulgaon, Village-Surwadi, Phulgaon road, Taluka Phulgaon, Dist. Satara, Maharashtra	F50	QSL9 G15	249 kW	ARAM/MEF/DGTA/CILP-F56/2017- 27- E3 Dated: 4-Jan-2019
16		F55	6L8.9TAA-G4	250 kW	ARAM/MEF/DGTA/CILP-F56/2015- 25- E2 Dated: 7-Feb-2018

AUTHORISED SIGNATORY

Sitaram

SITARAM KASHYAP  
DEPUTY GENERAL MANAGER



Saleela

SAURABH DALELA  
DIRECTOR



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Date : 09<sup>th</sup> March 2024

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## Annexure-III Cont.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
17	Greaves Cotton Ltd. Industrial Engine Unit, Plot No. J-2/A, MIDC Chikalthane, Aurangabad-431210 & Greaves Cotton Ltd. Industrial Engine Unit, Plot No. J-2/A, MIDC Chikalthane, Aurangabad-431210	F101	4G11TAG26	114 kW	ARAI/MoEF/DGTA/GCLP- F101/2015-10-E3 Dated: 18-Aug-2021
18		F201	5G11TAG29	178.8 kW	ARAI/MoEF/DGTA/GCLP- F201/2015-11-E2 Dated: 18-Aug-2021
19			6G11TAG28	163 kW	
20			8G11TAG27	144.5 kW	
21	Industrial Engine Unit, Plot No. J-2/A, MIDC Chikalthane, Aurangabad-431210	F251	D3V6TAG21	227 kW	ARAI/MoEF/DGTA/GCLP- F251/2015-12-E1 Dated: 18-Aug-2021
22		F161	6G11TAG26	144.5 kW	ARAI/MoEF/DGTA/GCLP- F161/2017-14-E2 Dated: 18-Aug-2021
23	Kirocker Oil Engines Ltd. Khadi, Pune & Kirocker Oil Engines Ltd. D1, Kagal Hatkenangale, M.D.C., At & PO Talandage, Dist- Kolhapur	F114	6SL1500TAG3	228 kW	ARAI/MoEF/DGTA/KOEL- F114/2014-14-E1 Dated: 09-Feb-2016
24			8SL1500TAG2	183 kW	
25	Deutz Engines India Pvt. Ltd., 5, Ramabai Ambedkar Road, B Wing, 4th Floor, Heritage House, Pune 411001, Maharashtra, India & Kirocker Oil Engines Ltd. D1, Kagal Hatkenangale, M.D.C., At & PO Talandage, Dist- Kolhapur	F113	6K10B0TA G2	147 kW	ARAI/MoEF/DGTA/KOEL- F113/2014-13-E4 Dated: 01-June-2021
26			8R10B0TAD	114.7 kW	
27			8R10B0TA G1	128.7 kW	
28	Tata Motors Limited, Pimpri, Pune & Tata Motors Ltd., Jamshedpur, 831010	F33	897 TC 10	115 kW	ARAI/MoEF/DGTA/TML- F33/2018-08-E1 Dated: 29-May-2019
29	Tata Cummins Pvt. Ltd., Talco Township, Jamshedpur, Jharkhand & Tata Cummins Pvt. Ltd., Plot No. A-1/1, A-1/2/1, Sunadi, Phalen, Satara, Maharashtra	F40	QSB 5.9-G2	154 kW	ARAI/MoEF/DGTA/TCL- F40/2017- 07 Dated: 23-Sep-2017
30			QSB 5.9-G1	137 kW	
31		F49	6BTA5.9-G13	119 kW	ARAI/MoEF/DGTA/TCL- F49/2019- 08-E1 Dated: 26-Sep-2019
32			QSB 6.7-G16	209 kW	
33		F55	QSB 6.7-G14	174 kW	ARAI/MoEF/DGTA/TCL- F55/2019- 09-E1 Dated: 21-May-2021
34			QSB 6.7-G15	191 kW	
35			QSB 6.7-G17	229 kW	
36	VE Commercial Vehicle Ltd., 102, Industrial area No-2, Pimpri-464775, Dist-Dhar, Madhya Pradesh & VE Commercial Vehicle Ltd., 102, Industrial area No-2, Pimpri-464775, Dist-Dhar, Madhya Pradesh	F7	EE694TCI 125KVA CPCB-II	115 kW	ARAI/MoEF/DGTA/VECV- F7/2017- 10 Dated: 21-Jun-2017
37		F12	EE664 TCI 180KVA CPCB-II	148 kW	ARAI/MoEF/DGTA/VECV- F12/2016-09 Dated: 26-Aug-2016

## AUTHORISED SIGNATORY

RUTHO

SITARAM KASHYAP  
DEPUTY GENERAL MANAGERSAURABH DALELA  
DIRECTOR

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MAXMOC MOTOR WORKS

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Date : 09<sup>th</sup> March 2024

## Annexure-III Cont.

S. No.	Manufacturer Name & Address	Engine Family	Engine Model	Rated Gross Mechanical Declared Power	Type Approval Certificate Number
38	Volvo India Private Limited, Volvo Penta, Yalacahally, Tavarekere Post, Hosakote TO, Bangalore, Karnataka-562 122 & AB Volvo Penta Cologne Germany	F14	TAD754GE	219 kW	ARAI/MoEF/DGTA/IMP/VOLVO- F14/2014-04-E1 Dated: 30-Jun-2015
39	EICHER TRACTORS, (A Unit Of TAFE Motors & Tractors Ltd.) Itanara Road, Ahwar- 301 001	F12	1751 ES	118 kW	ICAT/MoEF/CC/DGTA/EICHER-F12/O-0982 dt. 28.08.2019
40	M/s. JCB India Ltd., 23/7, Mathura Road, Bellabagher-121 004, Haryana, India.	F9	JCB 448 TCAG-121	121kW	ICAT/MoEF/DGTA/JCB-F9-K-0463 dt. 15.05.2016
41		F12	6M16G225/5E3	204 kW	ICAT/MoEF/CC/DGTA/IMP/BWPCL- F12N-2145 dt. 19.11.2018
42			6M16G180/5E3	175 kW	
43			6M16G160/5E3	155 kW	
44	M/s. Baudouin (Welfang) Power Co. Ltd., Add: No. 197A, Fushou East Street, High-new Technology, Industrial Development Zone, Welfang, Shandong, China.	F6	6M11G125/5E3	117 kW	ICAT/MoEF/CC/DGTA/IMP/BWPCL- F6N-2136 dt. 16.11.2018
45		6M12G	6M12G4D2/5	196 kW	ICAT/MoEF/CC/DGTA/IMP/BWPCL- 6M12G/P-0840 dt.06.07.2020
46			6M12G2D2/5	168 kW	
47		6M11G	6M11G2D2/5	143 kW	ICAT/MoEF/CC/DGTA/IMP/BWPCL- 6M11G/P-0835 dt. 06.07.2020
48		4M12G6D5	4M12G6D2/5	125 kW	ICAT/MoEF/CC/DGTA/IMP/BWPCL- 4M12G6D/P-0884 dt.13.07.2020
49		4M07G6	4M07G6D2/5	120 kW	ICAT/MoEF/CC/DGTA/IMP/BWPCL- 4M07G6/P-1729 dt. 01.12.2020
50		F12	6M16G225/5E3	204 kW	ICAT/MoEF/CC/DGTA/IMP/BWPCL- F12N-2145 dt. 19.11.2018
51			6M16G180/5E3	175 kW	
52			6M16G160/5E3	155 kW	
53	M/s. Shandong Heavy Industry India Pvt. Ltd., Add: Survey No. 280/281, Hinjawadi Phase II, Village Marin, Taluka Mulshi, Pune- 411057, Maharashtra, India	F6	6M11G125/5E3	117 kW	ICAT/MoEF/CC/DGTA/SHIPL-F6N-2136 dt. 16.11.2018
54		6M12G	6M12G4D2/5	196 kW	ICAT/MoEF/CC/DGTA/SHIPL- 6M12G/P-0839 dt. 06.07.2020
55			6M12G2D2/5	168 kW	
56		6M11G	6M11G2D2/5	143 kW	ICAT/MoEF/CC/DGTA/SHIPL- 6M11G/P-0835 dt. 06.07.2020
57		4M12G6D5	4M12G6D2/5	125 kW	ICAT/MoEF/CC/DGTA/SHIPL- 4M06G6D3/P- 0880 dt.13.07.2020
58		4M07G6	4M07G6D2/5	120 kW	ICAT/MoEF/CC/DGTA/SHIPL- 4M07G6/P- 1808 dt. 14.12.2020

Note: Engine details mentioned above are sourced from : www.opab.nic.in

END OF DOCUMENT

## AUTHORISED SIGNATORY

SITARAM KASHYAP  
DEPUTY GENERAL MANAGERSAURABH DALELA  
DIRECTOR

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[https://udyamregistration.gov.in/Udyam\\_User/Udyam\\_PrintApplication.aspx](https://udyamregistration.gov.in/Udyam_User/Udyam_PrintApplication.aspx)

भारत सरकार Government of India सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Ministry of Micro, Small and Medium Enterprises		MSME, MSU एवं मध्यम उद्यम MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES							
Udyan Registration Number : UDYAM-TN-06-0051670									
Type of Enterprise	MICRO	Major Activity	Manufacture						
Type of Organisation	Private Limited Company	Name of Enterprise	M/S MAXMO WORKS INDI LIMITED						
Owner Name	M/S MAXMOC MOTOR WORKS INDIA PRIVATE LIMITED	PAN	AAQCM2589R						
Do you have GSTIN	Yes	Mobile No.	9952823148						
Email Id	jrgsathyasiva@gmail.com	Special Category	OBC						
Gender	Male	Specially Abled(DIVYANG)	No						
Date of Incorporation	10/10/2022	Date of Commencement of Production/Business	10/10/2022						
<b>Bank Details</b>									
Bank Name	IFS Code	Bank Account Number							
hdfc bank	HDFC0000881	08811140012460							
<b>Employment Details</b>									
Male	Female	Other	T						
10	3	0							
<b>Investment in Plant and Machinery OR Equipment (in Rs.)</b>									
S.No.	Financial Year	Enterprise Type	Written Down Value (WDV)	Exclusion of cost of Pollution Control, Research & Development and Industrial Safety Devices	Net Investment in Plant and Machinery OR Equipment[(A)-(B)]	Total Turnover (A)	Export Turnover (B)	Net Turnover [(A)-(B)]	
1	2021-22	Micro	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Unit(s) Details</b>									
SN	Unit Name	Flat	Building	Village/Town	Block	Road	City	Pin	State
1	MAXMOC MOTOR WORKS INDIA PRIVATE LIMITED	273/3B	PONNUSAMY NAGAR A ZONE	DINDIGUL	-	ALAKKUVARPATY	DINDIGUL	624001	TAM NAD
<b>Official address of Enterprise</b>									
Flat/Door/Block No.		273/3B		Name of Premises/ Building			PONNUSAMY NAGAR A		
Village/Town		DINDIGUL		Block			-		
Road/Street/Lane		ALAKKUVARPATY		City			DINDIGUL		
State		TAMIL NADU		District			DINDIGUL , Pin : 624001		
Mobile		9952823148		Email:			jrgsathyasiva@gmail.com		
Latitude		10.43902504364441		Longitude:			78.26329027618468		
<b>National Industry Classification Code(S)</b>									
SNo.	Nic 2 Digit	Nic 4 Digit	Nic 5 Digit						
1	27 - Manufacture of electrical equipment	2710 - Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus	27101 - Manufacture of power generators (except battery charging alternators for internal combustion engines), motor generator sets (except turbine generator set units)						
2	27 - Manufacture of electrical equipment	2720 - Manufacture of batteries and accumulators	27202 - Manufacture of electric accumulator including parts thereof (separators, containers, covers)						
3	29 - Manufacture of motor vehicles, trailers and semi-trailers	2930 - Manufacture of parts and accessories for motor vehicles	29301 - Manufacture of diverse parts and accessories for motor vehicles such as brakes, gearboxes, axles, road wheels, suspension shock absorbers, radiators, silencers, exhaust pipes, catalysers, clutches, steering wheels, steering columns and steering boxes etc.						



The image shows a formal certificate with a decorative border. At the top left, it says 'CERTIFICATE NO: DIPP118180'. At the top center is the Government of India emblem, with the text 'Government of India', 'Ministry of Commerce & Industry', and 'Department for Promotion of Industry and Internal Trade' below it. At the top right is the '#startupindia' logo. The main title 'CERTIFICATE OF RECOGNITION' is in large blue letters. Below it, the text reads: 'This is to certify that **Maxmoc Motor Works India Private Limited** incorporated as a **Private Limited Company** on **10-10-2022**, is recognized as a startup by the Department for Promotion of Industry and Internal Trade. The startup is working in 'Design' Industry and 'Industrial Design' sector as self-certified by them.' Below this, a condition states: 'This certificate shall only be valid for the Entity up to **Ten** years from the date of its incorporation only if its turnover for any of the financial years has not extended ₹ **100 Cr.**' At the bottom, there are two fields: 'DATE OF ISSUE' with the date '30-12-2022' and 'VALID UPTO' with the date '09-10-2032'.

CERTIFICATE NO:  
DIPP118180

  
Government of India  
Ministry of Commerce & Industry  
Department for Promotion of Industry and Internal Trade

#startupindia

**CERTIFICATE OF RECOGNITION**

*This is to certify that **Maxmoc Motor Works India Private Limited** incorporated as a **Private Limited Company** on **10-10-2022**, is recognized as a startup by the Department for Promotion of Industry and Internal Trade. The startup is working in 'Design' Industry and 'Industrial Design' sector as self-certified by them.*

This certificate shall only be valid for the Entity up to **Ten** years from the date of its incorporation only if its turnover for any of the financial years has not extended ₹ **100 Cr.**

30-12-2022  
DATE OF ISSUE

09-10-2032  
VALID UPTO



# Bus Retrofit



# Off Highway Retrofit

# MMW comprehensive product technology portfolio

## Turn Key Solution

### Reduction Of Particles



**SMF<sup>R</sup> / pSMF<sup>R</sup>**



**SMF -Ar moduler**



**Ceramic Diesel Particulate filter system**

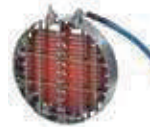
### Reduction Of gaseous emission



**AdBlue Mixer**



**SCR - SCRT - System**



**Thermal management**

### Periphery



**Silencer & Pipes**



**mounting Parts**



**Insulation**



**Stand Alone control (HW - ACU+Software)**



## Get it Compact - High efficiency end can mixer

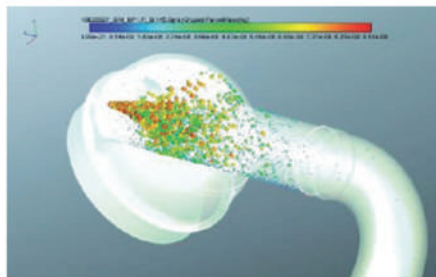
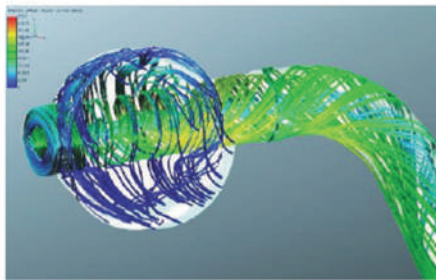
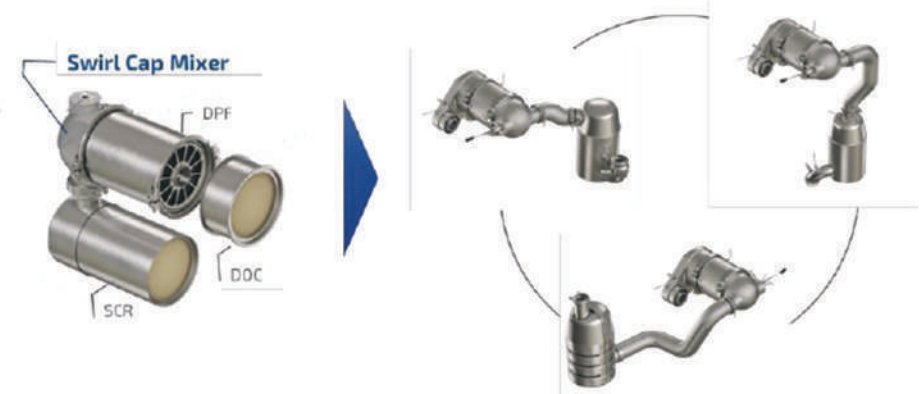
### Key Products Indicators

Highly efficient Urea-decomposition at compact space

Low backpressure

Adaption to various installation demands up to 560 kW engine power

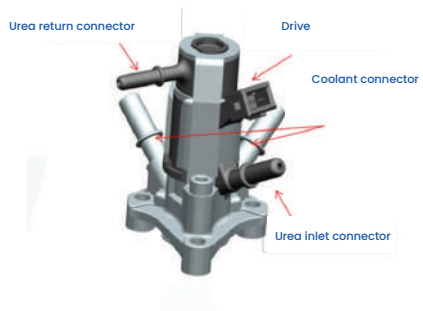
Very high uniformity assures high NO<sub>x</sub>-Conversions with low depostion risks



# MMW Remote Monitoring Solution

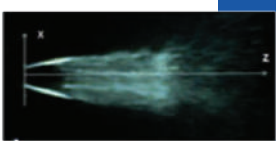
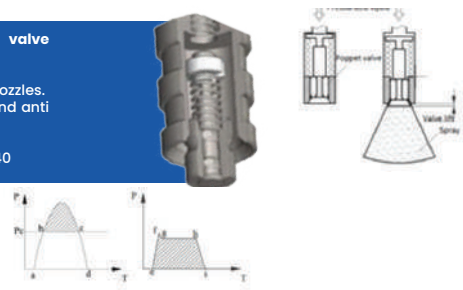


# Non air-assisted urea injection system



## External opening needle valve

- > Compared with hole-type nozzles, it has excellent anti-fouling and anti-crystallization
- > Properties pray cone angle40



## Umbrella spray

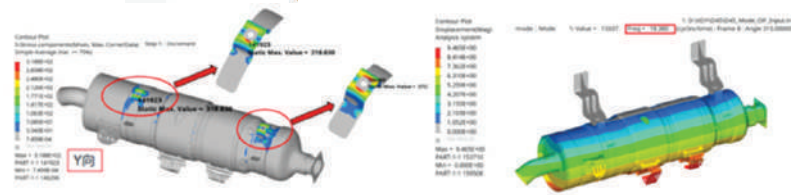
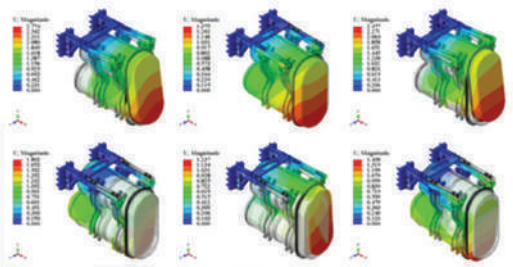
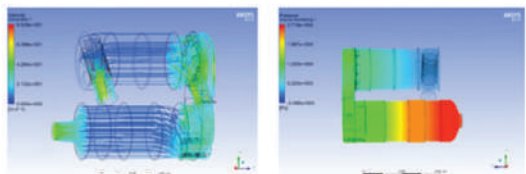
The spray uniformity is higher than that of multi-hole nozzles

## Installation method

Commonly used with BOSCH DM2.2

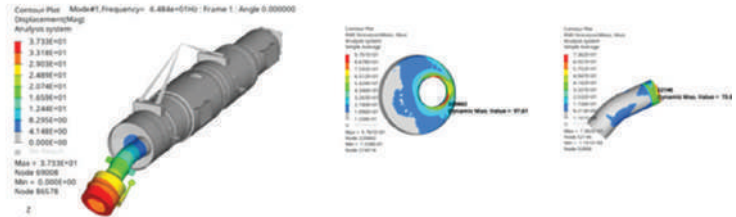


# Simulation



Hanging stress analysis

Vibration modal analysis

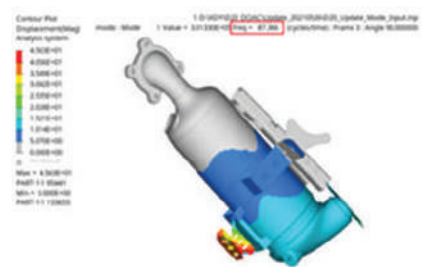


Modal analysis

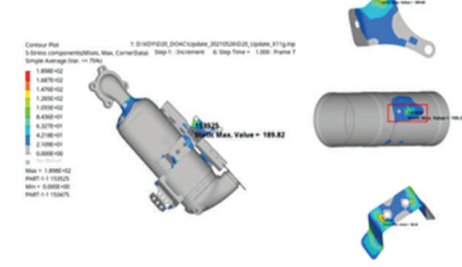
Vibration fatigue analysis

# CAE

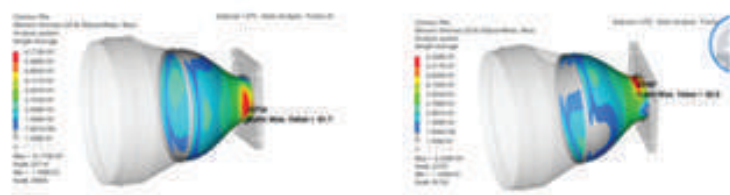
## Modal analysis



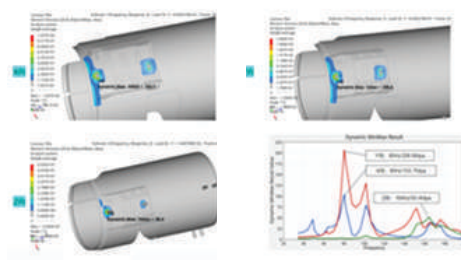
## Strgenth analysis



## Intake durability analysis



## Frequency re onse analysis





# EU Stage 3b OEM Forklift application

## MMW SMF as a ultra compact engine bonded Stage 3b solution

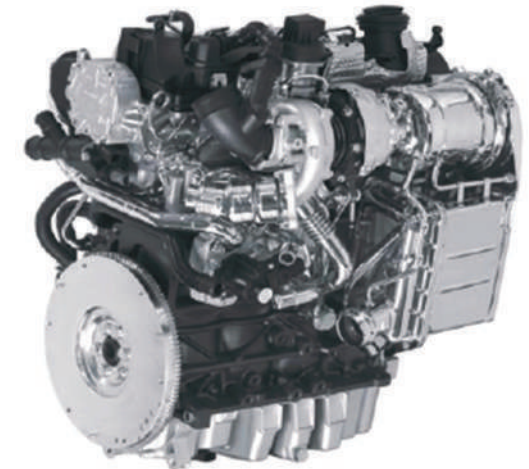
**VW IM 444/445MD**

**Engine Mounted CSMF<sup>®</sup> - SOP in 2012**

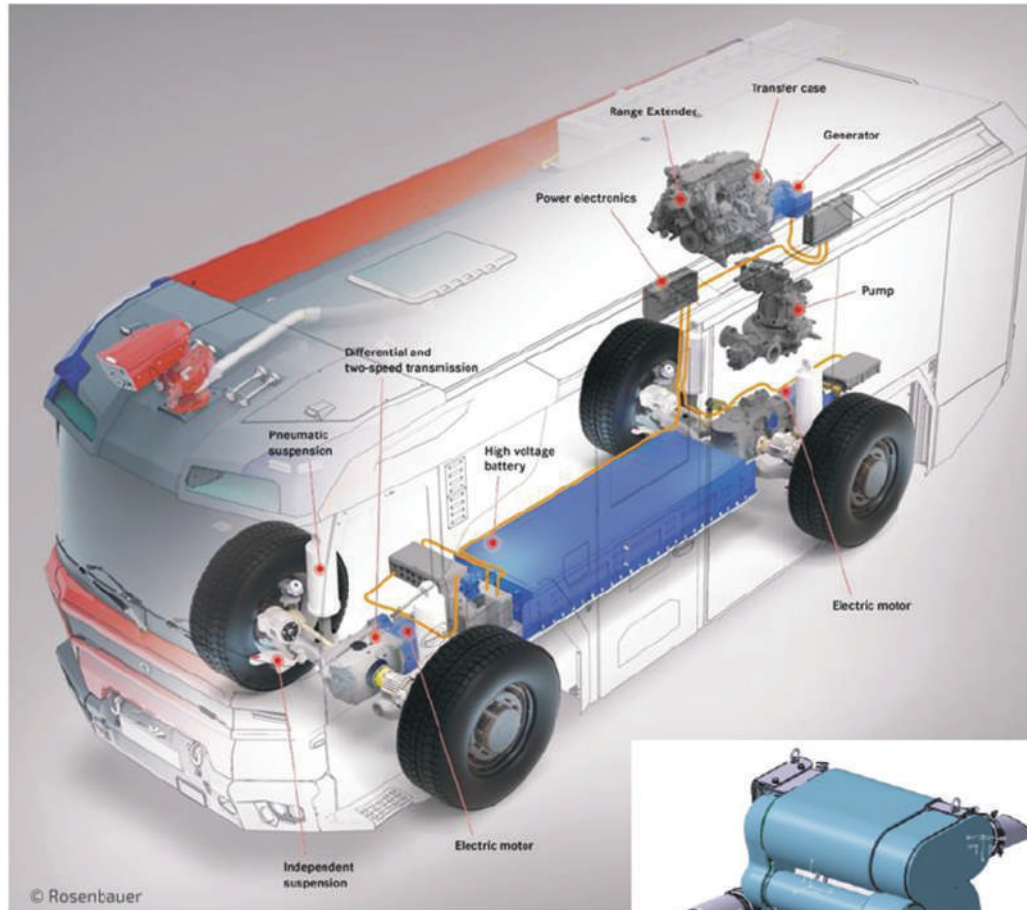
**Ash Cleaning Interval >7000h**

### MMW responsibility as Tier 1

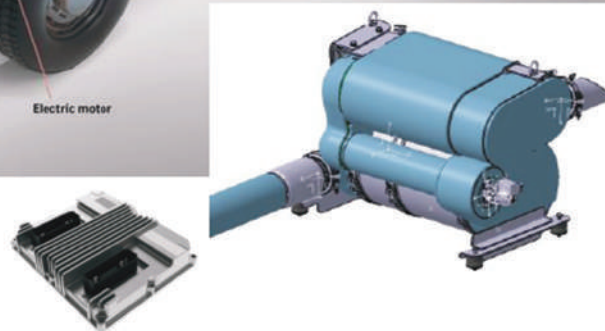
- Preparation of requirement specification
- Design including FEA and CFD
- Validation of functional behaviour for system calibration
- Validation of mechanical durability
- Development of high temperature coating SMF
- Validation of catalytic function (requirement of > 8,000 hours maintenance free service ~ 2 to 3 years)



# Turn Key Stage V / EPA 27 SCRT system for an range extender application



© Rosenbauer



- 2 electric motors with differential for front and rear axle
- Max. driving power 350kW
- Underfloor HV-battery with 50/100 kWh capacity

## Decentralised energy supply in the energy tower

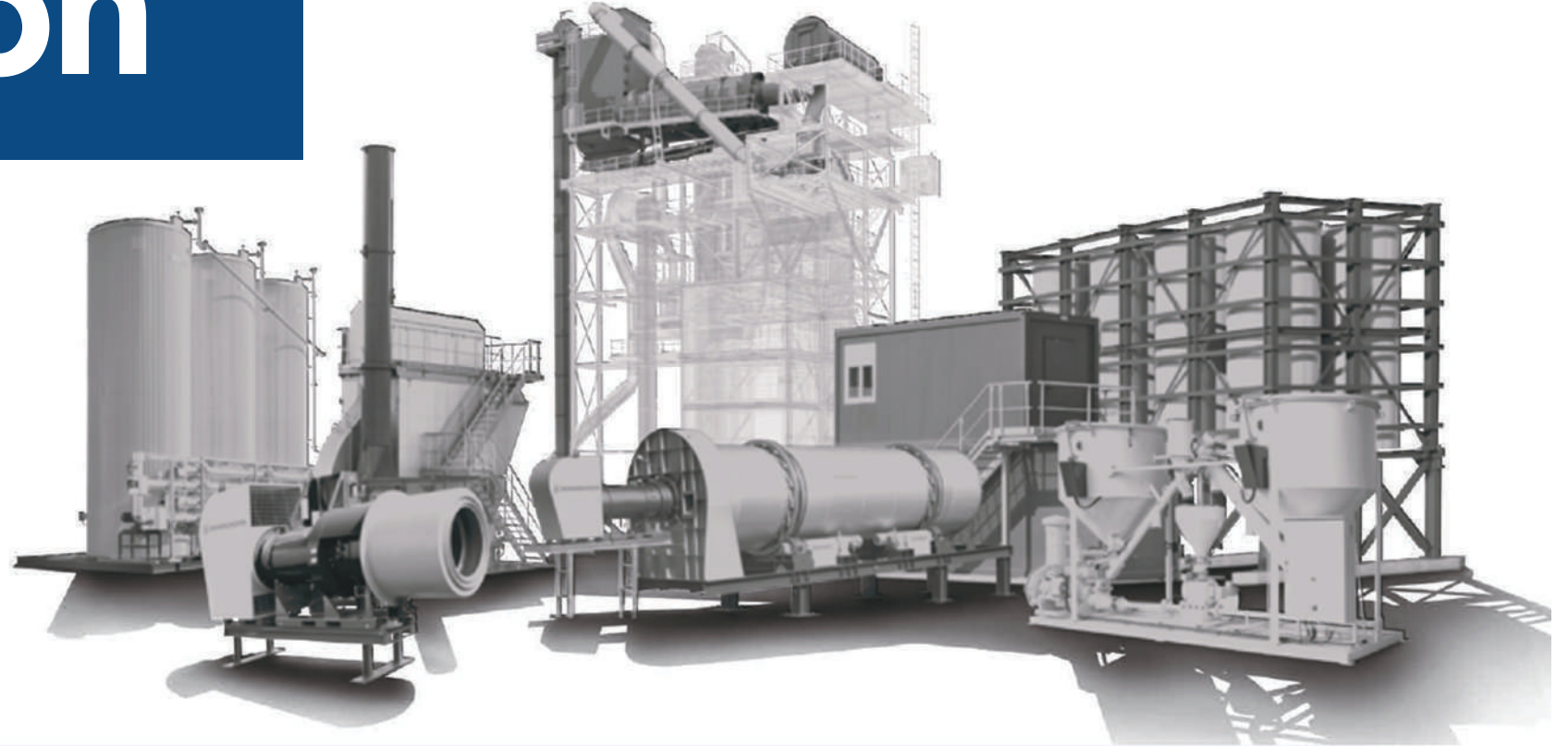
- Internal combustion engine (ICE): 200kW, 3L, I6 Diesel with sequential turbo charging
- Transfer case between ICE, generator and fire pump
- Hydraulic Power-Take-Off (PTO)

## Challenges

- Compact design for integration of EAT concept into the energy tower
- Trade-off: space, emissions, costs

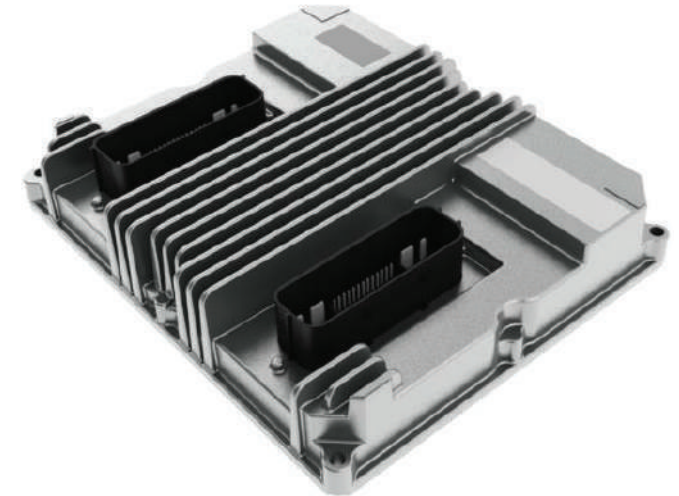


# Industrial Filtration



## Turn Key After Treatment

- ✓ MPC5565 (Freescale), 32 bit floating-point  $\mu$ C, 80 MHz
- ✓ 2 MByte Flash, 192 kByte RAM, 150 kByte NVRAM
- ✓ modell based SW-development and -calibration
- ✓ -> (MATLAB/SIMULINK/STATEFLOW)
- ✓ Electric: 6 - 32V
- ✓ Safety Integrity Level (SIL) 2
- ✓ 3 CAN-Busse according ISO 11898-2, SAE J1939-11 (HS)
- ✓ Onboard Lambda sensor-Interface
- ✓ Internal Data-Logger (30 days)
- ✓ OBD- and Diagnosis protocol as well as Front-Flashing
  - ✓ OBD according SAE J1939-73 or ISO 15031-5 (SAE J1979) or ISO/PAS 27145 (WWH-OBD)
  - ✓ Diagnostic USD according ISO 14229 or KWP2000 according ISO 14230
- ✓ Application tools:
  - ✓ -> examples VECTOR CANoe, CANape, CANDela, Inca
- ✓ Aluminum-cast housing
  - ✓ -> mech. stability: Vibration 9g / Shock 50g
- ✓ Protection class: IP67/69K
- ✓ Operation temperature: -40°C - +125°C
- ✓ chemical resistance



# Real time monitoring System



## Telematics and Real-Time Monitoring:

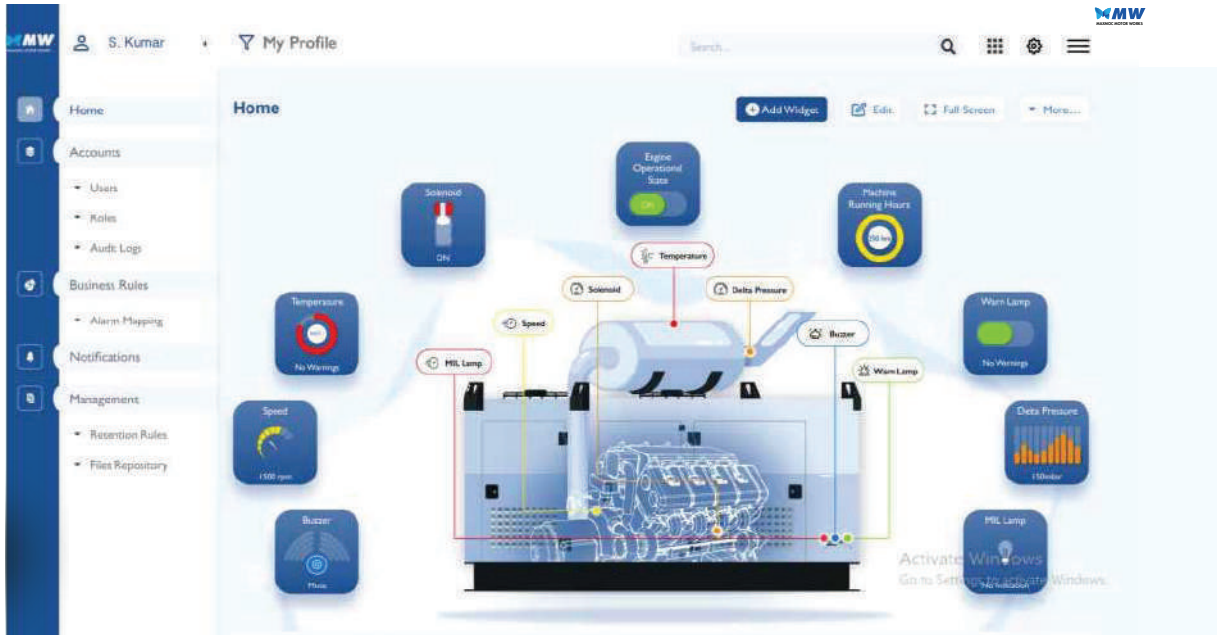
Our telematics system provides real-time monitoring and data analytics, allowing you to keep track of your system's performance, receive maintenance alerts, and utilize geofencing capabilities.

## Data Analytics:

With advanced data analytics, you can make informed decisions based on real-time data and historical performance trends.

## Maintenance Alerts:

Proactive maintenance alerts help prevent unexpected downtime and ensure your system is always running at peak performance



- › User friendly interface
- › Enabling effortless management of multiple display system
- › Intuitive touch controls
- › Customizable layouts
- › Efficiency of display setup



Welcome to Administration

## Broadcast

Description	CAN ID	PGN	SPN	VALUE
Delta Pressure	0x18FF00E2	65261	3241	0025
Before CAT pressure	0x18FF00E3	65262	3242	
After CAT pressure	0x18FF00E4	65263	3242	
After CAT pressure	0x18FF00E5	65264	3281	0000
Temperature at CAT	0x18FF00E6	65265	3251	0359
Engine Speed	0x18FF00E7	65266	3291	1481
CAT removal Sensor	0x18FF00E8	65267	3271	



Welcome to Administration

## Diagnostics

SPN Description	SPN	FMI
Pressure sensor Short to ground	3241	ON
Pressure sensor Failure	3241	OFF
Pressure sensor Short to bat	3241	ON
Temperature sensor failure	3251	OFF
Temperature sensor short to ground	3251	ON
CAT sensor Failure	3242	OFF
CAT sensor short to ground	3242	ON
CAT removed	3242	ON
Regen Mode	3271	ON
Regen Module failure	3271	ON
Regen Module removed	3271	ON
Regen Module short to ground	3271	OFF



- Home
- Accounts
- Users
- Roles
- Audit Logs
- Business Rules
- Notifications
- Management

### Accounts / Audit Logs

All types

Date from

Date to

Apply

Reload

Time	Event	Device Name	Alarm Description
25 Oct 2022 15:01:34	Alarm Created Source	4876	No data received from device within required interval.
25 Oct 2022 15:01:34	Alarm Created Source	4881	No data received from device within required interval.
25 Oct 2022 15:01:34	Alarm Created Source	36771	No data received from device within required interval.
25 Oct 2022 15:01:34	Alarm Created Source	69306	No data received from device within required interval.
25 Oct 2022 15:01:34	Alarm Created Source	69332	No data received from device within required interval.
25 Oct 2022 15:01:34	Alarm Created Source	4876	No data received from device within required interval.
25 Oct 2022 15:01:34	Alarm Created Source	4881	No data received from device within required interval.
24 Oct 2022 15:01:34	Alarm Created Source	36771	No data received from device within required interval.
24 Oct 2022 15:01:34	Alarm Created Source	69306	No data received from device within required interval.
24 Oct 2022 15:01:34	Alarm Created Source	69332	No data received from device within required interval.



- Home
- Accounts
- Business Rules
- Notifications
- Management
- Retention Rules
- Files Repository

### Management / Retention Rules

Filter...

Add Rule

Reload

Data type	Fragment type	Type	Source	Maximum age
* *	*	*	*	365days
Event *	*	*	*	180days
Alarm *	*	*	*	180days
Operation *	*	*	*	60days
Bulk_Operation *	*	*	*	60days
Audit *	*	*	*	90days
Measurement DLValues	*	*	*	90days

# Key Customers



Approved By



# PRODUCTS



**PVC/WPC Ply**



**WPC Doors**



**Prelaminate Ply**

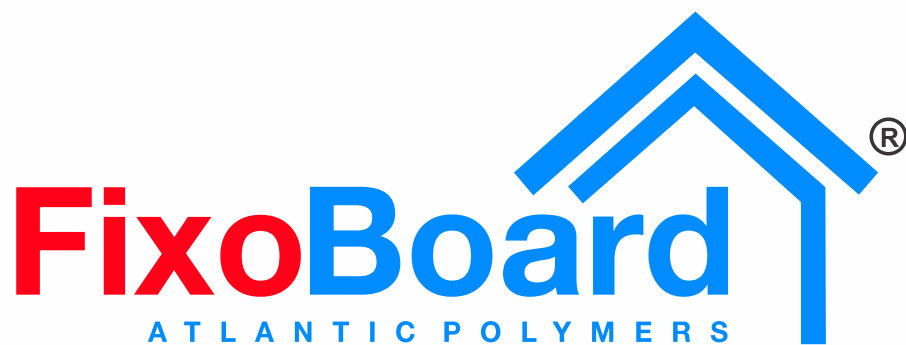


**WPC Door Frames**



**PVC Marble Sheets**





AN ADVANCED MARINE PLY

**MANUFACTURERS  
OF PVC/WPC PLY**

A PRODUCT OF ATLANTIC POLYMERS PVT. LTD.

## A STEP TOWARDS GREEN REVOLUTION

FixoBoard is not just a brand; it's an initiative, a promise towards Green Revolution. With the growing concern of deforestation caused due to illegal logging of trees for the use of plywood, our world ecosystem is under danger. Logging of trees accounts to the 14% of total cause of deforestation. It's time to stop this & to replace it with a suitable pro-earth alternative i.e FixoBoard PVC/WPC ply.

FixoBoard PVC/WPC ply is 100% environment friendly with various added features which is the most suitable substitute of WOOD/MDF/FIBRE BOARD/PARTICLE BOARD. FixoBoard will meet the global need of today without compromising the future.

Let's take an initiative to "GO GREEN WITH FIXOBOARD" and make this world a better place to live in.



## TERMITE PROOF

FixoBoard PVC/WPC ply is 100% termite proof which protects your furniture from all types of termite, hence no pest control is required.



## 100% WATER PROOF

FixoBoard PVC/WPC ply guarantees 100% water proof. It does not show any symptoms of delamination.



## FIRE RESISTANT

FixoBoard is designed in such a way that it can withstand fire without losing its functionality and its purpose.



## CHEMICAL RESISTANT

FixoBoard PVC/WPC ply is resistant to all the chemicals along with good medical properties.



## UV RESISTANT

FixoBoard PVC ply is designed in such a way that it is unaffected by ultra violet [UV] light or sunlight. It has the ability to resist sunlight and will have no effect on its tensile strength or elasticity even after prolonged sun exposure.



## LEAD FREE NON-TOXIC

FixoBoard PVC ply are non-poisonous and totally environment friendly. It has no adverse effect on human life and environment.



## NO SHRINKAGE & SWELLING

When the air is humid, wood absorbs moisture and swells; when the air is dry, wood loses moisture and shrinks. However in the case of fixoBoard pvc/wpc ply it does not shrink or swell as it is all weather proof ply.



## ANTI FUNGAL - ANTI BACTERIAL

Unlike traditional ply which causes fungus - FixoBoard PVC/WPC Ply is 100% anti-fungal & anti-bacterial by nature.



## CORROSION RESISTANT

FixoBoard PVC ply is totally corrosion resistant which has the ability to withstand damage, caused by oxidization or other chemical reactions.



## 100% RECYCLABLE

FixoBoard PVC/WPV ply is 100% re-cyclable and re-usable. By re-cycling PVC/WPC ply with other re-cyclable plastics various things are being manufactured. It also comes with 25% re-sale value.

FixoBoard PVC/WPC ply works in complete supplement to plywood. There is no additional knowledge / skill required in the working of the PVC ply - It adapts all traditional carpentry tools and can be - Cut, screwed, drilled, milled, polished etc. With less abrasion and or friction with the structure - the tool life increases. It is very much friendly with hand polish, PU, gloss / Matt, lamination, veneering. For fabrication - with utmost ease - it works well with all standard wood working machines like board saw, CNC router, and multi boring.







PVC WARDROBES  
& CABINET



PVC JALI



KITCHEN



PVC BED



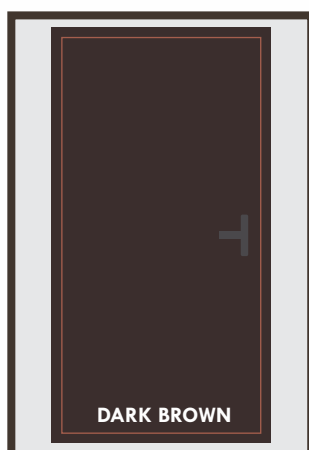
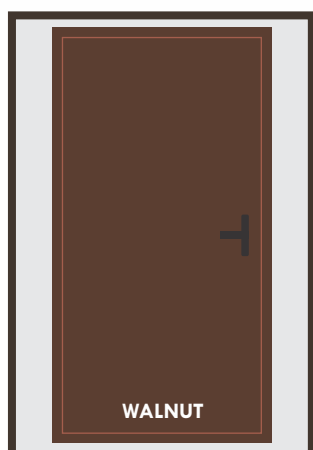
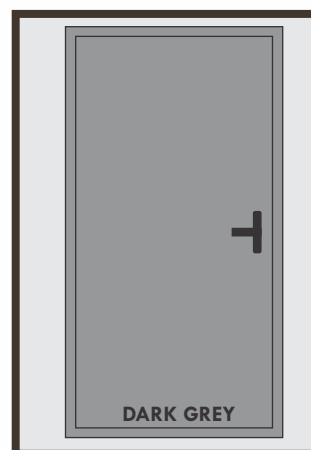
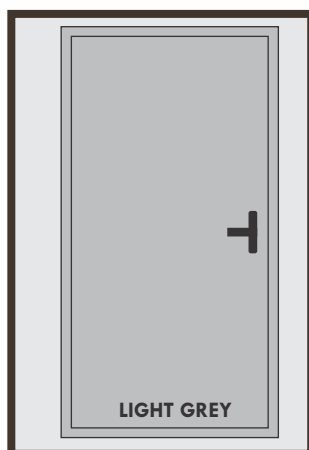
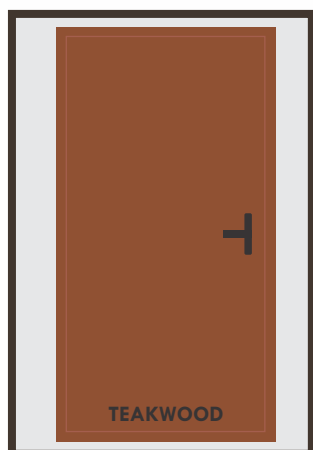
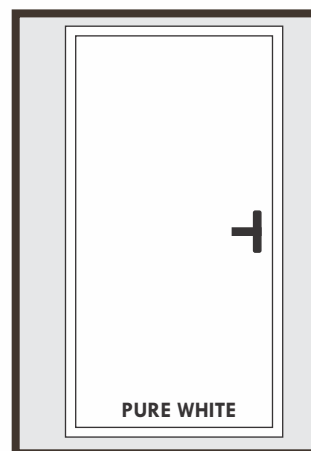
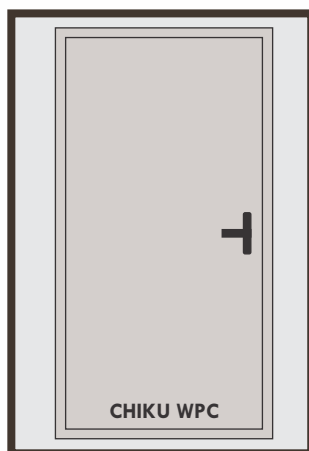
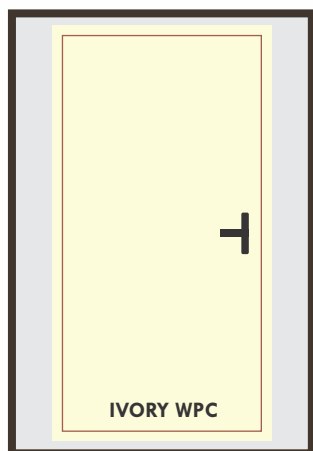
ADVERTISEMENT  
BOARDS



PVC GREY  
TANDEM BOX



APPLICATION



APPLICATION

WIDEST WPC PLAIN DOOR COLLECTION IN INDIA



UV COATED TEXTURE DOORS



TEAK TEXTURE



BEIGE WOOD  
TEXTURE

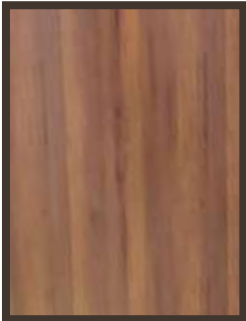


WALNUT TEXTURE



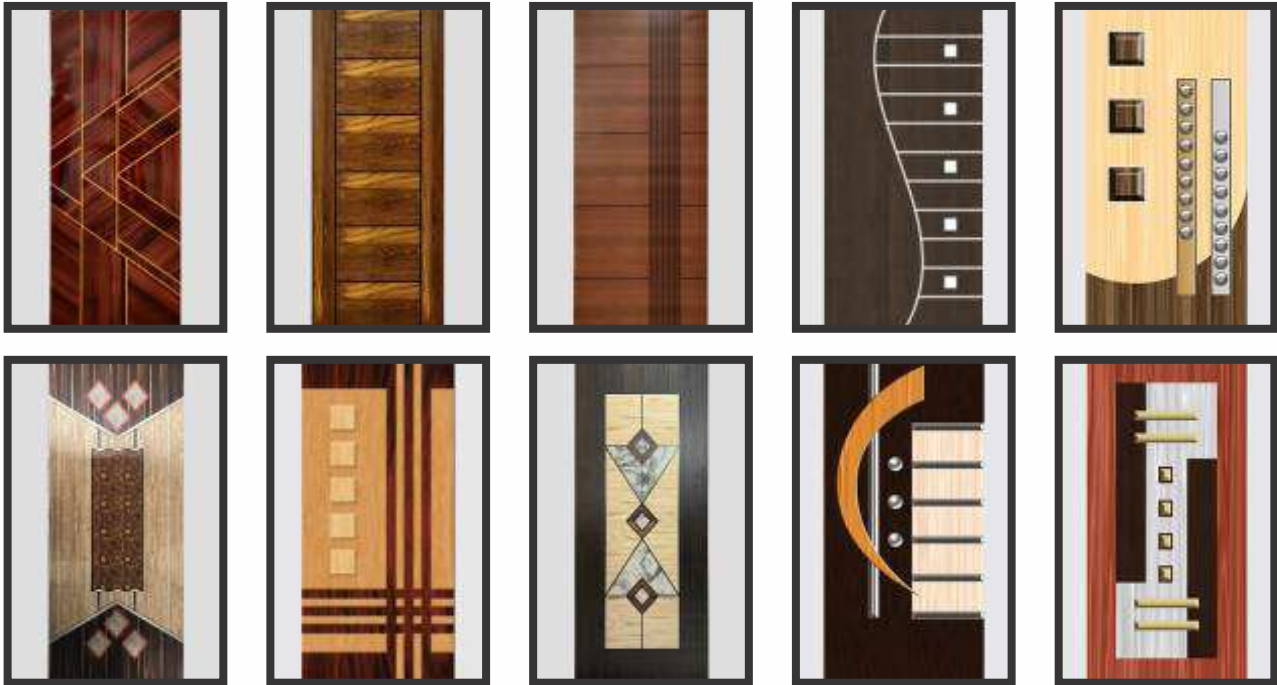
BROWN TEXTURE

PATTERNS



DIGITAL PRINTING

Experience Infinite Designing Possibilities With FixoBoard!



CNC DESIGNS

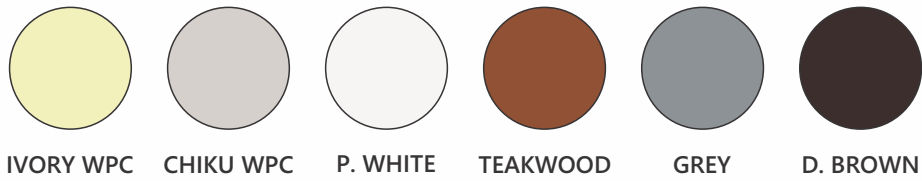
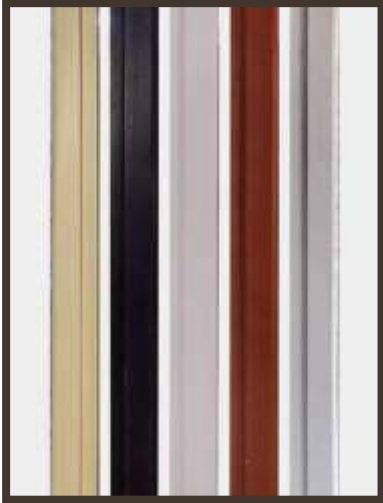


# WPC DOOR FRAME



## AVAILABLE SIZES

CURVE MODEL	RIGHT ANGLE
60X30	75X50
70x45	100x50
75x50	100x63
90x45	125x63
100x50	
90x60	DOUBLE REBATE
100x63	100X65
125x60	125x65



Matching colours available with doors



TEXTURE PRINTING



DIGITAL PRINTING

# WPC WINDOW FRAME





## Digital doors



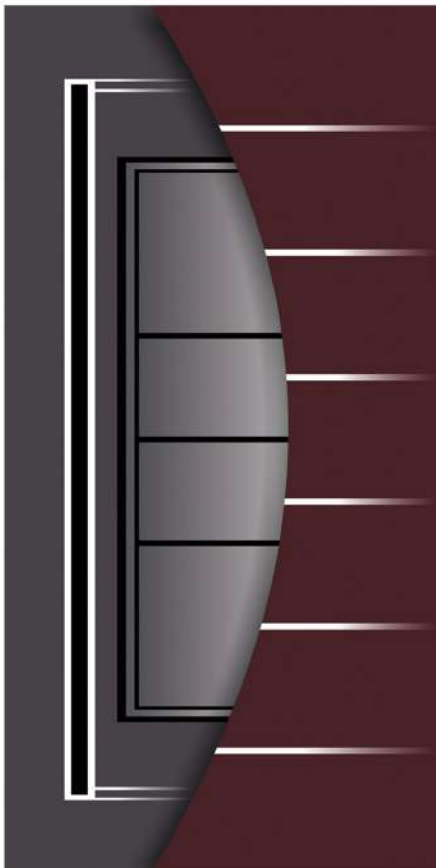
FB 001



FB 002



FB 003



FB 004



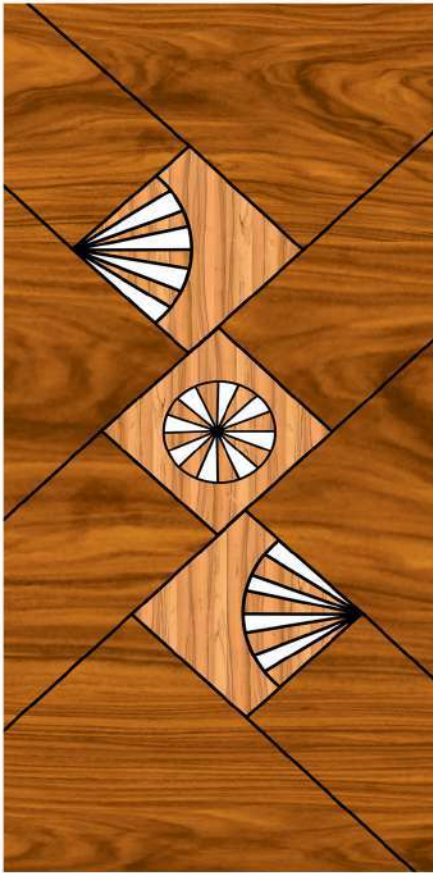
FB 005



FB 006



## Digital doors



FB 007



FB 008



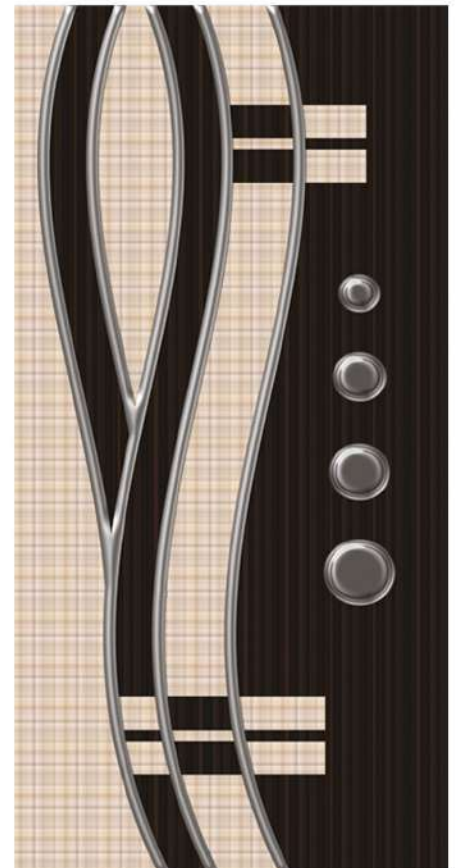
FB 009



FB 010



FB 011



FB 012



## Digital doors



FB 049



FB 050



-  TERMITE PROOF
-  100% WATER PROOF
-  FIRE RESISTANT
-  CHEMICAL RESISTANT
-  UV RESISTANT
-  LEAD FREE NON-TOXIC
-  NO SHRINKAGE & SWELLING
-  ANTI FUNGAL - ANTI BACTERIAL
-  CORROSION RESISTANT
-  100% RECYCLABLE



**Beautiful doors for Beautiful home**

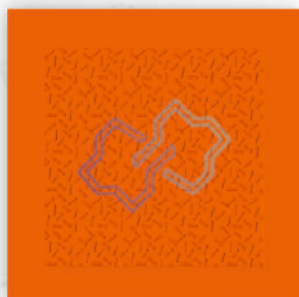




**ATLANTIC POLYMERS PVT. LTD.<sup>®</sup>**

**Shaping Imagination into Reality**

**AVAILABLE TEXTURES IN PVC MOULDS FOR PAVER BLOCKS**



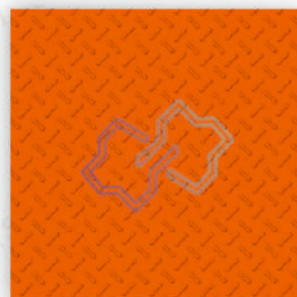
**2T Ant**



**Ant**



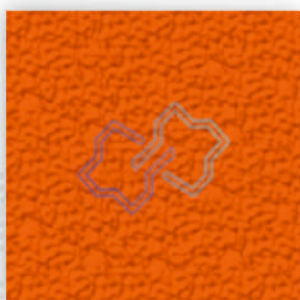
**Ant Dot**



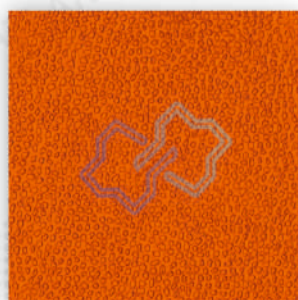
**Ant Y**



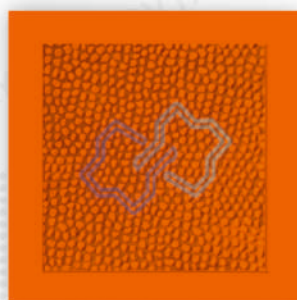
**Big Boondi**



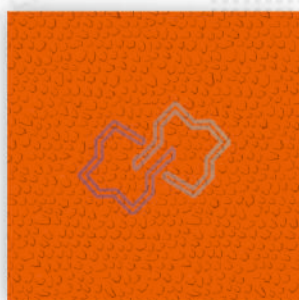
**Big Rock**



**Boondi**



**Boondi Deep 2T**



**Boondi Medium**



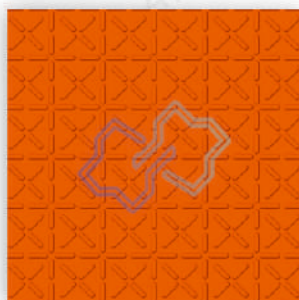
**Boondi Rock**



**Boondi Sand 2T**



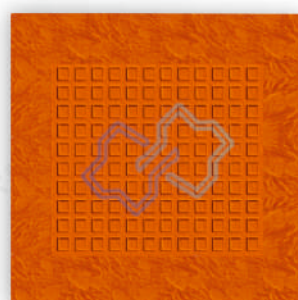
**Boondi Stone**



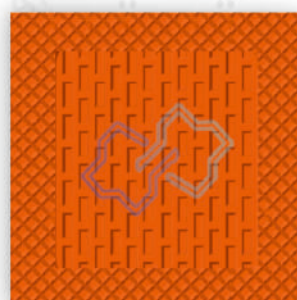
**Border X**



**Buts**



**Cadbury Rock**



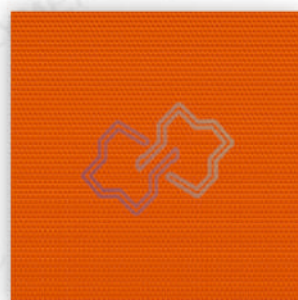
**Capsule Diamond**



**Chain**



**Charkat**



**Cloth**



**Cobble**



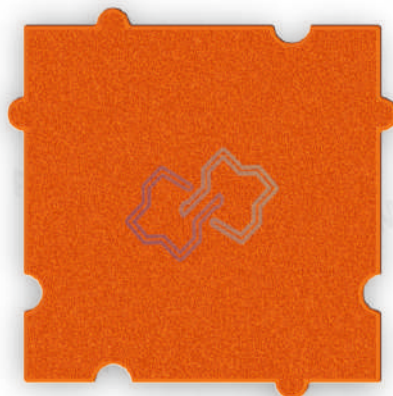


## PVC MOULDS FOR PAVER BLOCKS

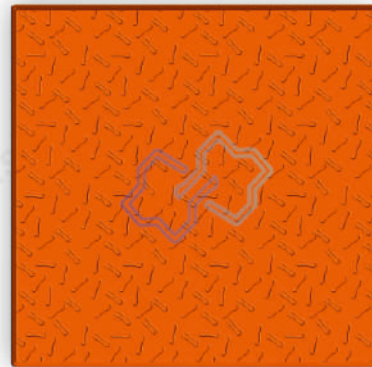
**ATLANTIC<sup>®</sup>**  
POLYMERS PVT. LTD.  
Shaping Imagination Into Reality



**Flame Matt**  
AP 137 Cube 150



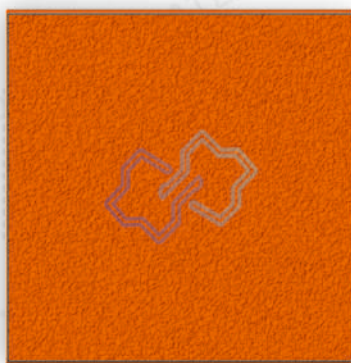
**Interlocking Matt**  
AP 137 Cube 150



**Ant Low**  
AP 137 Cube 150



**LT**  
AP 137 Cube 150



**Matt**  
AP 137 Cube 150



**Plain**  
AP 137 Cube 150



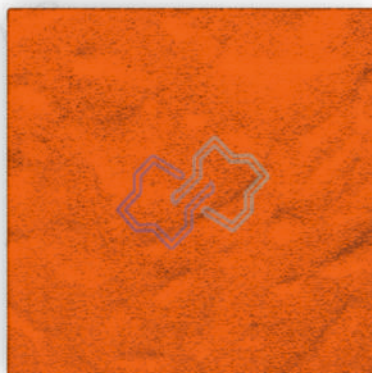
**Rock**  
AP 137 Cube 150



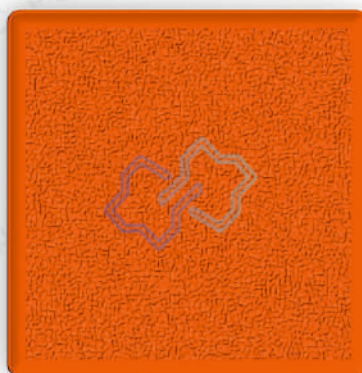
**Boondi Round**  
AP 137 Cube 150



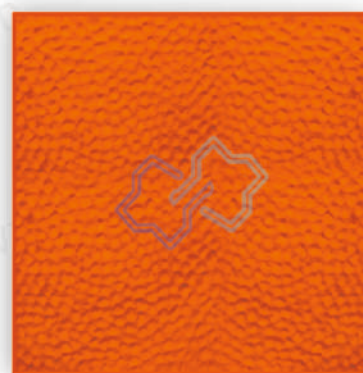
**Sand**  
AP 137 Cube 150



**Flame Sand**  
AP 137 Cube 150



**Plain Round Sand**  
AP 137 Cube 150



**Medium Boondi**  
AP 137 Cube 150





## PVC MOULDS FOR PAVER BLOCKS

**ATLANTIC<sup>®</sup>**  
POLYMERS PVT. LTD.  
Shaping Imagination Into Reality

### AP 184 Red Brick

Sizes : 100sqft = 274 pcs

Thickness : 60,75 mm



**Plain**

AP 184 Red Brick

### AP 185 Yellow Brick

Sizes : 100sqft = 267 pcs

Thickness : 40,100 mm



**Plain**

AP 185 Yellow Brick

### AP 186 Diamond Brick

Sizes : 100 sqft = 356 pcs

Thickness : 60 mm



**Dot Square**

AP 186 Diamond Brick



**Flame**

AP 186 Diamond Brick



**Sand**

AP 186 Diamond Brick

### AP 187 Triangle - Sizes : 100 sqft = 824 pcs

Thickness : 60,80 mm



**LT**

AP 187 Triangle

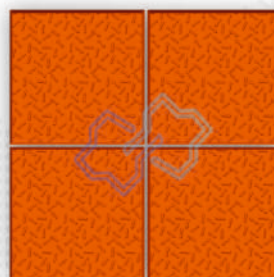


**Sand**

AP 187 Triangle

### AP 188 Cube 600 - Sizes : 100 sqft = 400 pcs

Thickness : 40,60,80 mm



**Ant**

AP 188 Cube 600



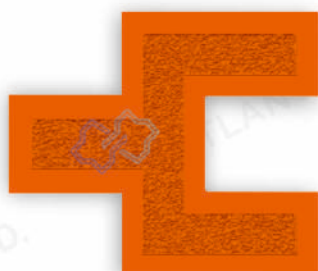
**Rock**

AP 188 Cube 600

### AP 189 Orbit

Sizes : 100sqft = 254 pcs

Thickness : 60 mm



**Border Sand**

AP 189 Orbit

### AP 190 Negative

Sizes : 100sqft = 254 pcs

Thickness : 60,80 mm



**Sand**

AP 190 Negative

### AP 191 German I

Sizes : 100sqft = 220 pcs

Thickness : 60,80 mm



**Ant**

AP 191 German I

### AP 192 Z Type

Sizes : 100sqft = 320 pcs

Thickness : 60,80 mm



**Matt**

AP 192 Z Type

### AP 193 Tree Guard Set

Sizes : 100sqft = 400 pcs

Thickness : 60,80 mm



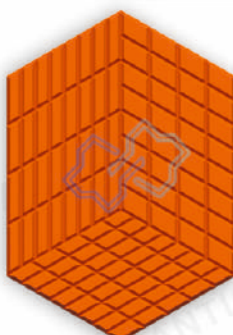
**Flower Leaves**

AP 193 Tree Guard Set

### AP 194 Vertical Hexagon

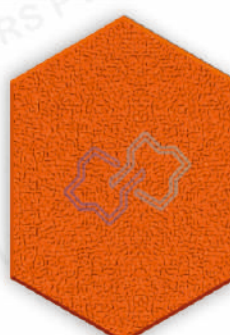
Sizes : 100sqft = 264 pcs

Thickness : 60 mm



**Jewel**

AP 194 Vertical Hexagon



**Sand**

AP 194 Vertical Hexagon

### AP 195 Arrow

Sizes : 100sqft = 276 pcs

Thickness : 60,80 mm



**Matt**

AP 195 Arrow

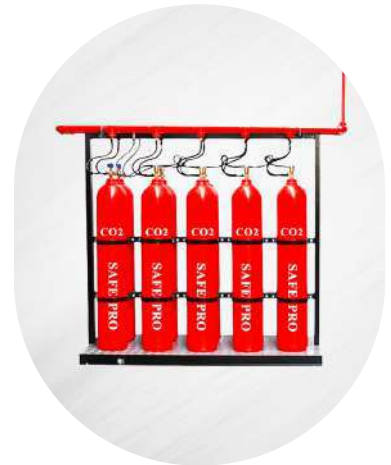
# PRODUCTS



**All Types of Fire Extinguisher**



**Fire Hydrant System**



**Fire Suppression System**



**Industrial Safety Products**



**Road Safety Products**





# SAFE PRO<sup>®</sup>

## FIRE SERVICES PVT. LTD.



Fire Extinguishers



Hydrant Products



Safety Products



*Making* **India**  
*Self Reliant*

# CERTIFICATES



- **ISI (INDIAN STANDARDS INSTITUTION MARK) -**

ISI stands for Indian Standards Institute; it is the certificate scheme under Bureau of Indian Standards which ensures that a product withstands the BIS standards and safety. ISI Mark Certification allows you to use the ISI Mark on your product.



- **EN ISO 9001:2015**

It is the international standard that defines the requirements for a Quality Management System (QMS).



- **EUROPEAN PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU**

CE stands for CONFORMITE EUROPEENNE. The CE marking shows that the manufacturer has checked, these products meet EU safety, health or environmental requirements.



- **UL (UNDERWRITERS LABORATORIES) -**

They certify products with the aim to make the world a safer place for both workers and consumers. Besides testing, they set industry standards to follow when innovating new products. The UL certificate is universally accepted for quality.



- **MAHARASHTRA FIRE SERVICE**

This licence is issued by the government of Maharashtra India to those contractor who have a consistent track record for delivering quality products & services.



- **DGQA**

Directorate General of Quality Assurance (DGQA) is an Inter-Service Organisation functioning under the Department of Defence Production in the Ministry of Defence.

The application of these approved products are for quality certification in the three (Army, Navy, Air force) armed forces of India.



- **IRS**

Indian Register of shipping (IRS) is a government appointed body who are entrusted for issuing certification for type approval, which ensure quality products at all times. The application of these approved products are for marine use.





**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
Faster than fire

## ABC POWDER TYPE POWDER FIRE EXTINGUISHER

Dry chemical powders are important fire fighting agents. The main advantage is practically immediate success of extinguishing a fire. Furthermore one can use dry powders for extinguishing large scale fires, spillage fires and three dimensional fires.

- ISI Marked
- 1 year warranty
- Safe for use on live electrical equipment
- Squeeze grip operation
- Fully refillable
- Controlled discharge
- Supplied with wall bracket
- Full range of spare parts are available



MODEL	SPF- 1 KG ABC P	SPF- 2 KG ABC P	SPF- 4 KG ABC P	SPF- 6 KG ABC P	SPF- 9 KG ABC P
CYLINDER MATERIAL	M.S.	M.S.	M.S.	M.S.	M.S.
CAPACITY (KG)	1	2	4	6	9
FIRE RATING	1A 21B	1A 34B	3A 89B	4A 144B	6A 233B
EXTINGUISHING MEDIUM	MAP 90%	MAP 90%	MAP 90%	MAP 90%	MAP 90%
TEMPERATURE RANGE	-30°C to + 60° c	-30°C to + 60° c	-30°C to + 60° c	-30°C to + 60° c	-30°C to + 60° c
AVERAGE DISCHARGE TIME (Sec.)	8-10 Sec.	10-14 Sec.	15-20 Sec.	16-22 Sec.	20-25 Sec.
AVERAGE DISCHARGE RANGE (Meters)	02 Mtrs.	02 Mtrs.	04 Mtrs.	05 Mtrs.	05 Mtrs.
OPERATING PRESSURE	15 BAR	15 BAR	15 BAR	15 BAR	15 BAR
TEST PRESSURE	35 BAR	35 BAR	35 BAR	35 BAR	35 BAR
EXPELLANT	NITROGEN	NITROGEN	NITROGEN	NITROGEN	NITROGEN
CO <sub>2</sub> CARTRIDGE CAPACITY (grams)	—	—	—	—	—



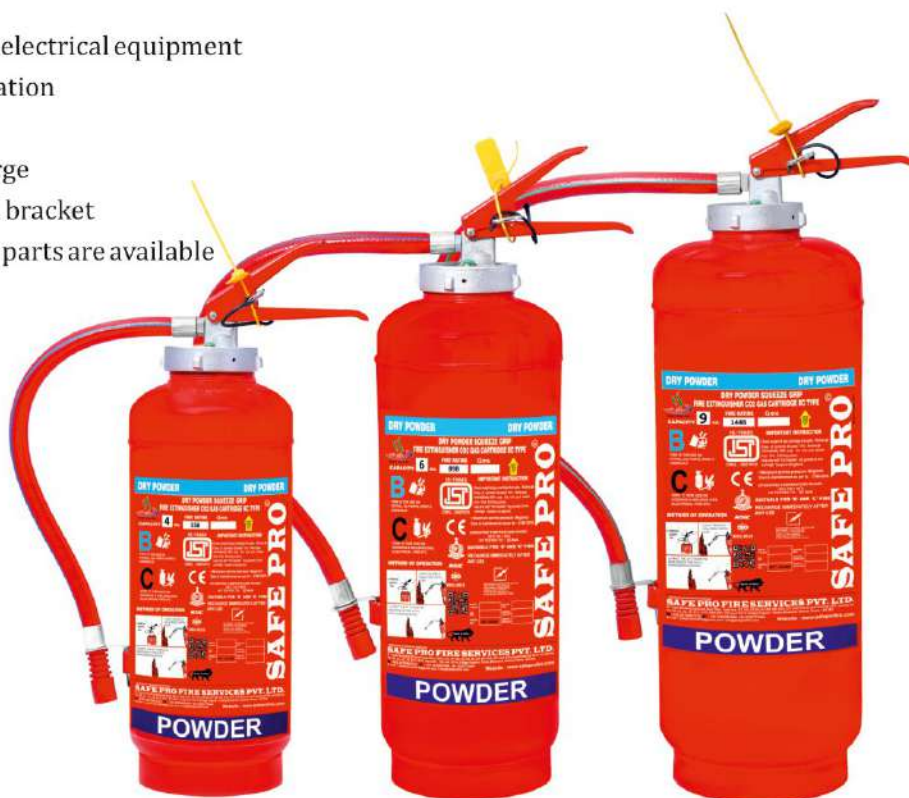
**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
Faster than fire

## BC POWDER TYPE

### POWDER FIRE EXTINGUISHER

BC Powder fire extinguishers are ideal for use on Class, B and C Fire Risks. The **SAFE PRO** powder fire extinguishers are available in 4kg, 6kg and 9kg standard versions. This model is designed to extinguish 'B' and 'C' type fires involving material like Petro Chemical products, Paints, Resins, Pigment, Varnish, Gases in compressed form like Oxygen, Acetylene, LPG, & CNG.

- ISI Marked
- 1 year warranty
- Safe for use on live electrical equipment
- Squeeze grip operation
- Fully refillable
- Controlled discharge
- Supplied with wall bracket
- Full range of spare parts are available



	SPF- 6 KG BC	SPF- 9 KG BC	SPF- 4 KG BC CT	SPF- 6 KG BC CT	SPF- 9 KG BC CT
CYLINDER MATERIAL	M.S.	M.S.	M.S.	M.S.	M.S.
CAPACITY (KG)	6	9	4	6	9
FIRE RATING	89B	233B	55B	89B	144B
EXTINGUISHING MEDIUM	As Per IS 4308	As Per IS 4308	As Per IS 4308	As Per IS 4308	As Per IS 4308
TEMPERATURE RANGE	-30°C to + 60°C	-30°C to + 60°C	-30°C to + 60°C	-30°C to + 60°C	-30°C to + 60°C
AVERAGE DISCHARGE TIME (Sec.)	15-20 Sec.	20-25 Sec.	12-18 Sec.	15-20 Sec.	20-25 Sec.
AVERAGE DISCHARGE RANGE (Meters)	04 Mtrs.	05 Mtrs.	04 Mtrs.	4.5 Mtrs.	05 Mtrs.
OPERATING PRESSURE	15 BAR	15 BAR	15 BAR	15 BAR	15 BAR
TEST PRESSURE	35 BAR	35 BAR	35 BAR	35 BAR	35 BAR
EXPELLANT	NITROGEN	NITROGEN	CO <sub>2</sub>	CO <sub>2</sub>	CO <sub>2</sub>
Co2 CARTRIDGE CAPACITY (grams)	—	—	120	120	200





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FIRE SERVICES PVT. LTD.  
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# CARBON DIOXIDE FIRE EXTINGUISHER

Carbon Dioxide fire extinguishers are ideal for use on Class B & Class C Fire Risks. The **SAFE PRO** carbon dioxide fire extinguishers are available in 2kg, 3kg, and 4.5kg standard Version.

- ISI Marked
- 1 year warranty
- Safe for use on live electrical equipment
- Fully refillable
- Controlled discharge
- Supplied with wall bracket
- Full range of spare parts are available



MODEL	SPF- 2 KG CO2	SPF- 3 KG CO2	SPF- 4.5 KG CO2
CYLINDER BODIES	PESO APPROVED	PESO APPROVED	PESO APPROVED
CAPACITY (KG)	2	3	4.5
FIRE RATING	21B	34B	55B
EXTINGUISHING MEDIUM	CO <sub>2</sub> Gas IS 15222	CO <sub>2</sub> Gas IS 15222	CO <sub>2</sub> Gas IS 15222
TEMPERATURE RANGE	-30°C to + 60°C	-30°C to + 60°C	-30°C to + 60°C
AVERAGE DISCHARGE TIME (Sec.)	09 Sec	09-11 Sec.	10-12 Sec.
AVERAGE DISCHARGE RANGE (Meters)	02 Mtrs.	02 Mtrs.	03 Mtrs.
TEST PRESSURE	250 BAR	250 BAR	250 BAR



**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
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# WATER TYPE FIRE EXTINGUISHER

Water Type Fire Extinguishers are ideal for extinguishing Class A Fires. The **SAFE PRO** Water Fire Extinguishers are perfect for use in a range of applications including offices and warehouses and the extinguishment is just pure water making the fire extinguishers extremely environmentally friendly and quick and simple to discharge test.

- ISI Marked
- 1 year warranty
- High quality corrosion resistant finish
- Easy to read pressure gauge
- Supplied complete with wall mounting bracket
- Full range of spare parts are available



MODEL	SPF- 9 LTR W	SPF- 9 LTR W CT
CYLINDER MATERIAL	M.S.	M.S.
CAPACITY (Ltr.)	9	9
FIRE RATING	3A	3A
EXTINGUISHING MEDIUM	WATER	WATER
TEMPERATURE RANGE	+5°C to + 60°C	+5°C to + 60°C
AVERAGE DISCHARGE TIME (Sec.)	20-25 Sec.	20-25 Sec.
AVERAGE DISCHARGE RANGE (Meters)	04 Mtrs.	04 Mtrs.
OPERATING PRESSURE	15 BAR	15 BAR
TEST PRESSURE	35 BAR	35 BAR
EXPELLANT	NITROGEN	CO <sub>2</sub>
Co2 CARTRIDGE CAPACITY (grams)	—	60





**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
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## FOAM TYPE FIRE EXTINGUISHER

Foam Type Fire extinguishers are ideal for use on Class A and Class B Type Fire Risks. The **SAFE PRO** Foam fire extinguishers are available in 9ltr standard models.

- ISI Marked
- 1 year warranty
- Squeeze grip operation
- Fully refillable
- Supplied with wall bracket
- Full range of spare parts are available



MODEL	SPF- 9 LTR MF	SPF- 9 LTR MF CT
CYLINDER MATERIAL	M.S.	M.S.
CAPACITY (Ltr.)	9	9
FIRE RATING	4A 144B	4A 144B
EXTINGUISHING MEDIUM	AFFF FOAM IS 4989	AFFF FOAM IS 4989
TEMPERATURE RANGE	+5°C to + 60°C	+5°C to + 60°C
AVERAGE DISCHARGE TIME (Sec.)	18-20 Sec.	18-20 Sec.
AVERAGE DISCHARGE RANGE (Meters)	05 Mtrs.	05 Mtrs.
OPERATING PRESSURE	15 BAR	15 BAR
TEST PRESSURE	35 BAR	35 BAR
EXPELLANT	NITROGEN	CO <sub>2</sub>
Co2 CARTRIDGE CAPACITY (grams)	—	60



**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
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# WET CHEMICAL TYPE FIRE EXTINGUISHER

**SAFE PRO** Kitchen Type Fire Extinguisher offers a distinctive unique feature by reacting chemically with cooking oil or fats (Saponification) & forms a non-combustible layer on surface, thereby provides a very fast flame knock down & complete securement of grease related fires. High reactivity of chemicals, reduces fire intensity of oil -immediately and also it does not produce any hazardous by-products due to fire or reaction with burning oil. Ease of post fire clean up. Totally non-corrosive product.

**AVAILABLE IN VARIOUS CAPACITIES AND VARIANTS:** STAINLESS STEEL CYLINDERS AND STANDARD MILD STEEL CYLINDERS

- ISI Marked
- 1 year warranty
- Squeeze grip operation
- Fully refillable
- Controlled discharge
- Supplied with wall bracket
- Full range of spare parts are available



MODEL	SPF- 4 Ltrs. K	SPF- 6Ltrs. K	SPF- 9Ltrs. K
CYLINDER MATERIAL	S.S	S.S	S.S
CAPACITY (Ltrs.)	4 Ltrs.	6 Ltrs.	9 Ltrs.
FIRE RATING	15F	25F	75F
EXTINGUISHING MEDIUM	WET CHEMICAL	WET CHEMICAL	WET CHEMICAL
AVERAGE DISCHARGE TIME (Sec.)	12-15 Sec.	15-18 Sec.	18-20 Sec.
AVERAGE DISCHARGE RANGE (Meters)	03 Mtrs.	03 Mtrs.	04 Mtrs.
OPERATING PRESSURE	15 BAR	15 BAR	15 BAR
TEST PRESSURE	35 BAR	35 BAR	35 BAR
EXPELLANT	NITROGEN	NITROGEN	NITROGEN



**SAFE PRO®**  
FIRE SERVICES PVT. LTD.  
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## AUTOMATIC CEILING MOUNTED MODULAR FIRE EXTINGUISHER

Automatic fire extinguishers are ideal for use in unoccupied rooms or areas and can be used to provide fire safety protection in an enclosed space.

- Available with ABC Powder and Clean Agent gas Extinguishers.
- Supplied complete with temperature activation bulb (68°C) which activates the fire extinguisher when the temperature is reached.
- Wide range of uses including unattended areas, storage rooms, server rooms, engine compartments.



MODEL	SPF-M02	SPF-M05	SPF-M10	SPF-M15
CAPACITY	2 KG	5 KG	10 KG	15 KG
DESIGN	Ceiling mounted	Ceiling mounted	Ceiling mounted	Ceiling mounted
AVERAGE DISCHARGE TIME	4-5 sec	6-8 sec	10-15 sec	15-20 sec
HANGING HEIGHT ABOVE RISK	1.5 Mtr	1.5 to 2 Mtr	1.75 to 2.25 Mtr	2 to 3 Mtr
AREA PROTECTION	1 to 1.5 m <sup>2</sup>	2 to 2.5 m <sup>2</sup>	4 to 5 m <sup>2</sup>	5 to 6 m <sup>2</sup>
VOLUME PROTECTION	2.5 m <sup>3</sup>	6 m <sup>3</sup>	10 m <sup>3</sup>	15 m <sup>3</sup>
AVERAGE % DISCHARGE	99%	99%	99%	99%
OPERATING TEMPERATURE	68°C	68°C	68°C	68°C
SERVICE / TEST PRESSURE	15 / 35 BAR	15 / 35 BAR	15 / 35 BAR	15 / 35 BAR
EXPPELLING AGENT	Nitrogen / Clean Agent	Nitrogen / Clean Agent	Nitrogen / Clean Agent	Nitrogen / Clean Agent





**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
Faster than fire

# DRY CHEMICAL POWDER ABC TYPE

## WHEELED FIRE EXTINGUISHER

**SAFE PRO** fire wheeled extinguishers are available in ABC Powder and offer exceptional value for money as well as the high quality that you would expect from **SAFE PRO** fire fighting products. **SAFE PRO** fire wheeled extinguishers are ideal for use in a wide range of commercial and industrial applications.



CAPACITY	25 kg Outside Cartridge type	25 kg Inside Cartridge type	50 kg Outside Cartridge type	75 kg Outside Cartridge type
TYPE	Wheeled DCP ABC type	Wheeled DCP ABC type	Wheeled DCP ABC type	Wheeled DCP ABC type
IS NO.	IS 16018	IS 16018	IS 16018	IS 16018
FIRE RATING	20A 233B	20A 233B	20A 233B	20A 233B
OPERATING TEMPERATURE	-30° C TO +55° C	-30° C TO +55° C	-30° C TO +55° C	-30° C TO +55° C
AVERAGE JET LENGTH THROW (IN MTRS)	6 Mtrs.	6 Mtrs.	07 Mtrs.	7.5 Mtrs.
AVERAGE DISCHARGE PERCENTAGE	90%	90%	90%	90%
AVERAGE DISCHARGE TIME (SEC)	40 sec.	40 sec.	45-50 Sec.	45-50 Sec.
CHARGE PRESSURE	1.5Mpa	1.5Mpa	1.5Mpa	1.5Mpa
TEST PRESSURE	3.5 Mpa	3.5 Mpa	3.5 Mpa	3.5 Mpa
EXTINGUISHER MEDIA	Dry powder As per IS 4308	Dry powder As per IS 4308	Dry powder As per IS 4308	Dry powder As per IS 4308
EXPELLANT	CO <sub>2</sub>	CO <sub>2</sub>	CO <sub>2</sub>	CO <sub>2</sub>
LENGTH OF HOSE PIPE	2 mtrs.	2 mtrs.	4 mtrs.	4 mtrs.





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FIRE SERVICES PVT. LTD.  
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# MECHANICAL FOAM

## MOBILE UNIT

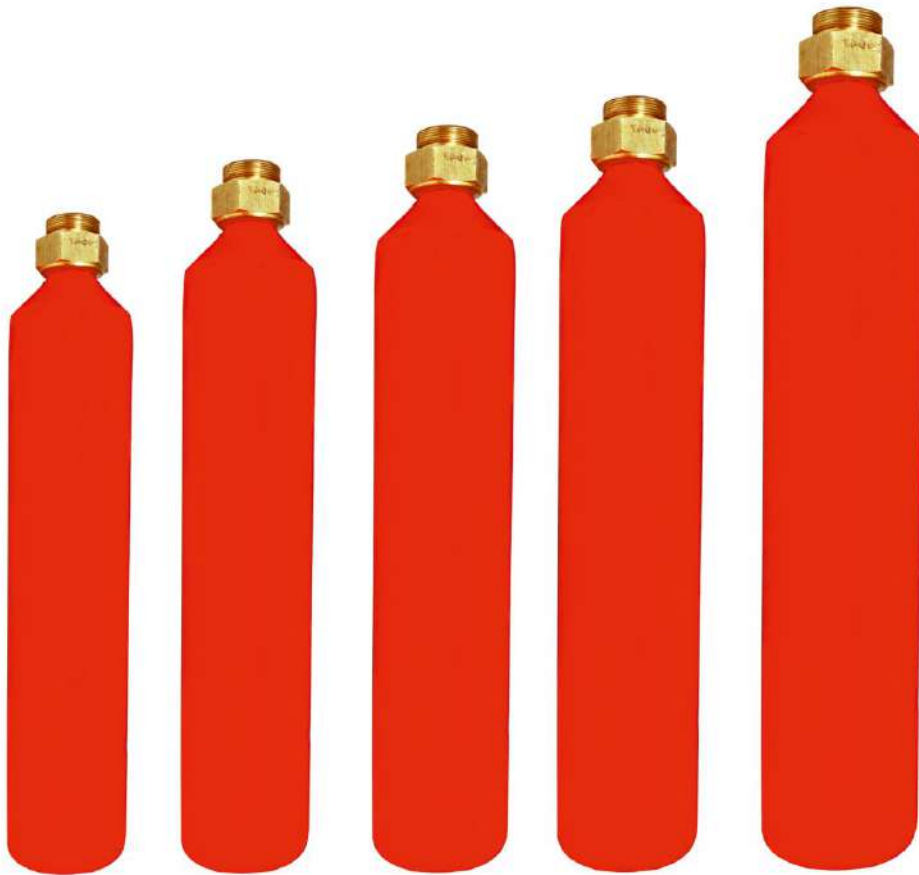
Mechanical Foam Making Mobile Unit, consisting of 100 /200 litre capacity MS foam tank, one 225 l.p.m, Al. Alloy inline inductor with connection to foam tank, one foam making branch pipe with 63mm male inst. inlet, mounted on a rubber-tyred trolley with a handle & 6" castor wheel & having provision to keep 2 lengths of 63mm x 15 mtr. length.





**SAFE PRO**  
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## CO<sub>2</sub> CARTRIDGE WITH BRASS NUT



### TECHNICAL DETAILS

IS NO.	4947				
TYPE	60 G	90 G	120 G	200 G	300 G
OUTSIDE DIAMETER (MM)	38/48	38/48	38/48	38/48	48/52
VOLUME (ML)	90	135	180	300	450
CO <sub>2</sub> FILLED WEIGHT (G)	60	90	120	200	300
WORKING PRESSURE (BAR)	174				
TEST PRESSURE (BAR)	250				
MIN WAL THICKNESS (MM)	3				
EXPELLANT	Co <sub>2</sub>				
ANTI CORROSIVE TREATMENT	PHOSPHATING (7 TANKS)				
PAINTING	EPOXY POLYESTER POWDER COATING				



**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
Faster than fire

## HOSE BOX

### DOUBLE DOOR

#### DOUBLE DOOR HOSE BOX MS



Dimension-

750mmX600mmX250mm

Material- Mild Steel (3mm thickness)

Colour- Powder coated in Red PO colour

Door Opening Type -

Central opening glazed door, Necessary Locking Arrangement

Sticker of "Fire Hose Box" on the box.

This hose box consists of double door to keep two hoses of 15meters length and a nozzle.

#### DOUBLE DOOR HOSE BOX SS

Dimension-

750mm X 600mm X 250mm

Material- Stainless Steel (3mm thickness)

Door Opening Type -

Central opening glazed door, Necessary Locking Arrangement

Sticker of "Fire Hose Box" on the box.

This hose box consists of double door to keep two hoses of 15meters length and a nozzle.







**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
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# CONVENTIONAL OPTICAL SMOKE DETECTOR



## AS - 503

### CONVENTIONAL OPTICAL SMOKE DETECTOR

#### Technical Parameters:

- Voltage range: 16-32 VDC
- Alarm current: 10-100mA
- Quiescent: 60uA @ 24VDC
- Operating temperature: 0°C to +90°C
- Humidity: <95%RH
- Coverage: 50 sq. meters
- 2-wire
- Photoelectric sensor
- Product size: 10.6x10.6x5.2cm



## AS - 504

### CONVENTIONAL HEAT DETECTOR

#### Technical Parameters:

- Voltage range: 16-32 VDC
- Alarm current: 10-100mA
- Quiescent: 40uA @ 24VDC
- Operating temperature: 0°C to +90°C
- Humidity: <95%RH
- Coverage: 50 sq. meters
- 2-wire
- Cancel
- Product size: 10.6x10.6x5.2cm



## AS - 505

### CONVENTIONAL OPTICAL MULTI - DETECTOR

#### Technical Parameters:

- Voltage range: 16-32 VDC
- Alarm current: 10-100mA
- Quiescent: 60uA @ 24VDC
- Operating temperature: 0°C to +90°C
- Humidity: <95%RH
- Coverage: 50 sq. meters
- 2-wire
- Photoelectric sensor
- Product size: 10.6x10.6x5.2cm



**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
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# FIRE DETECTION & SUPPRESSION SYSTEM

## CLEAN AGENT BASED SYSTEM

### DIRECT LOW PRESSURE (DLP) FIRE SUPPRESSION SYSTEM

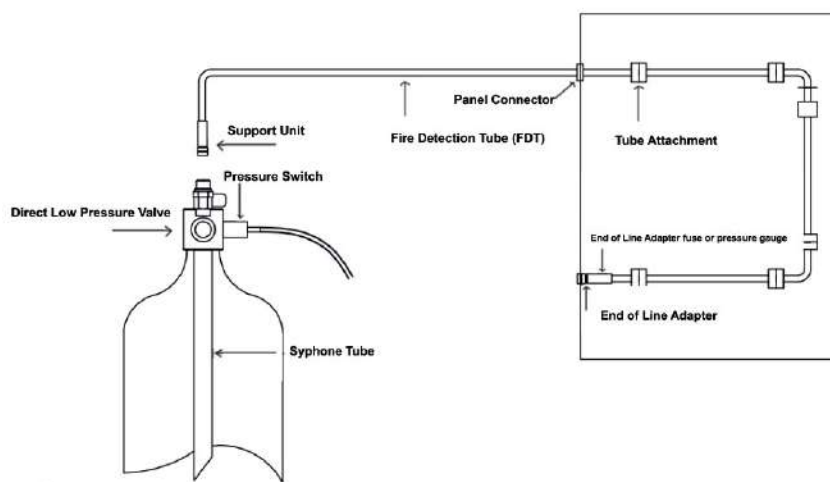
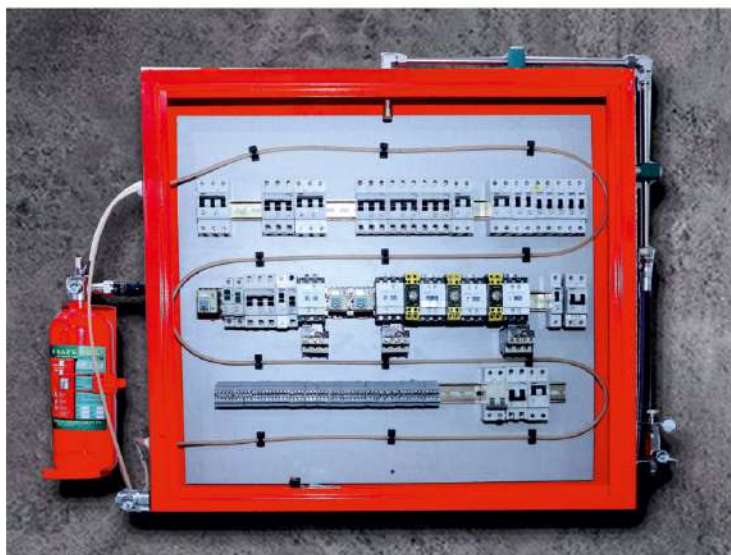
DLP System : The fire detection tube acts as the delivery system for the suppression agent which discharges and directly releases the agent onto a fire via the burst hole which acts as a nozzle in the fire detection tube. Act as a heat-sensing and agent discharge tube.

### DLP SYSTEM & SPARES

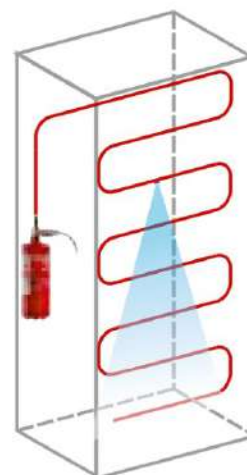
- MS Cylinder Available in Capacity of 2kg, 4kg, 6Kg, 9kg (ISI)
- Direct Low Pressure Valve
- End Of Line Adaptor With Pressure Gauge
- UL Listed Tube With Burst Temp 138°C (UL)
- Non UL Tube
- Clean Agent Safe Pro 1230 (FK-5-1-12) (UL Listed), HFC 227ea (UL Listed)
- Pressure Switch & Accessories

### DLP SYSTEM APPLICATION

- Electric Panels
- Server Racks
- Tool Machinery



**DLP**







**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
Faster than fire

# SAFETY REFLECTIVE JACKETS

## REFLECTIVE JACKETS



Heavy Duty Contractor Surveyor's vest with zipper closure and large back "plan" pocket. Built with rugged ANSI 107 Hi-Viz material, reinforced wear points, and long-wearing web reinforcement along outer edges. Mesh upper, front and back, for breath ability and comfort. Pockets in tough woven twill fabric provide durability.

### MESH

GREEN ORANGE

### SIZES AVAILABLE

M, L, XL

### FEATURES:

- Zipper Closure
- 2 Glass Bead Reflective Tape [Class 2]
- Grommets at Neck for Tool Keepers
- Woven Fabric Bias Tape Mic Tab on Shoulder
- Heavy Black Webbing Reinforcement

### POCKETS: 6

- Upper Chest Flap Pocket
- Upper Split Pencil Pocket
- Lower Front Flap Covered Pockets
- Large Inside Open Pockets

### MATERIALS:

- 100% Polyester Mesh
- 100% Polyester Solid Twill Pockets

### COLORS:

- High-Visibility Green
- High-Visibility Orange
- 25 Wash Max







**SAFE PRO**  
FIRE SERVICES PVT. LTD.  
Faster than fire

# TRAFFIC ZONE

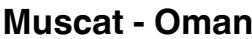
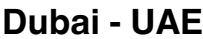
## TRAFFIC ZONE

### A Complete Range of Traffic - Road Safety

We are successfully engaged in supplying a commendable range of Traffic Safety Equipments. Provided Products are tested on various parameter of quality.



100



# | Contact Us



(+971) 50 496 5895 / 50 810 4235  
+91 961 961 9600 (India)



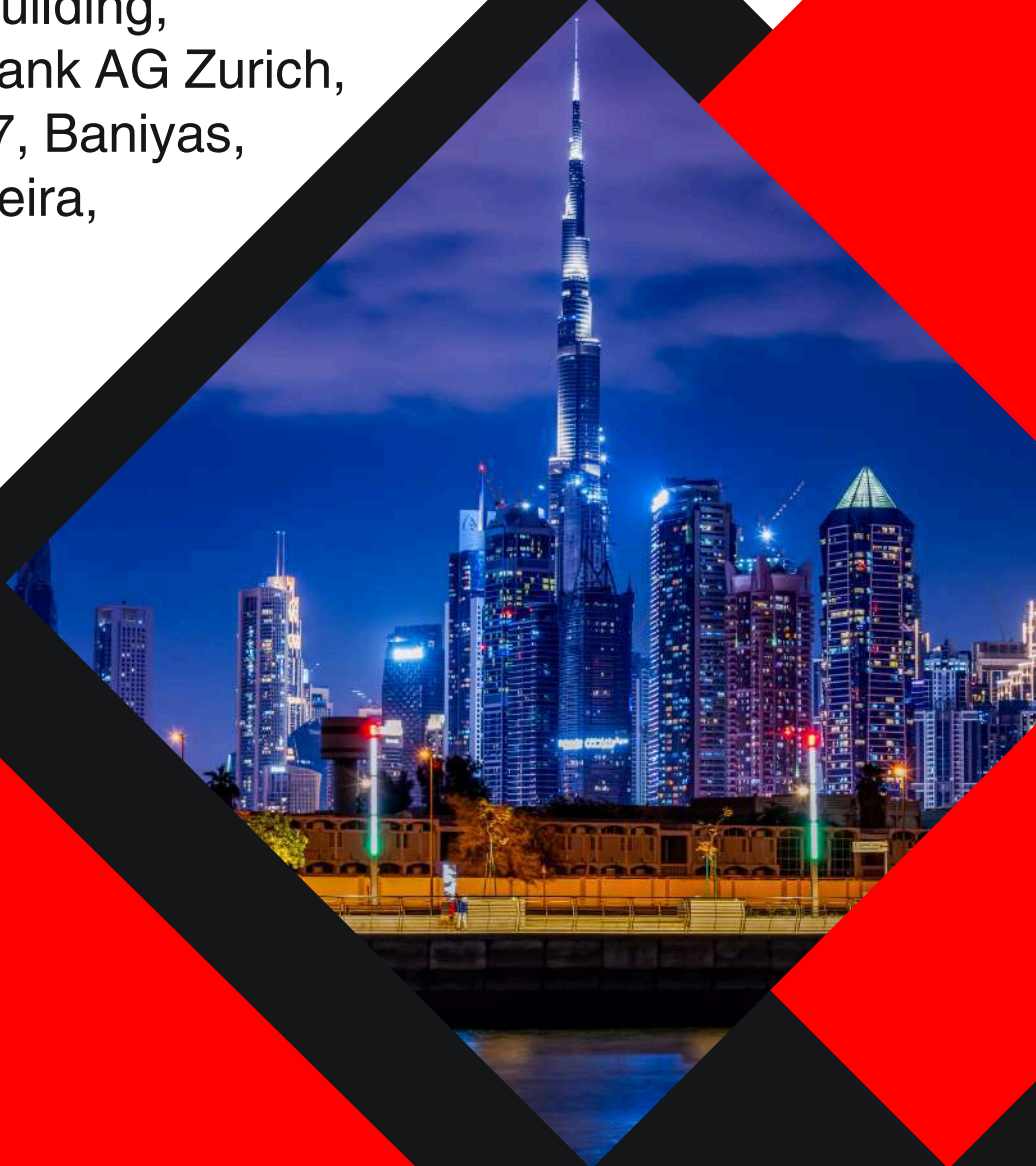
citylitegeneraltrading@gmail.com



www.citilite.ae



Dubai Pearl Building,  
Opp. Habib Bank AG Zurich,  
Office No. 207, Baniyas,  
Abra Road, Deira,  
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# 28 YEARS

Of Reliable Manufacturing Excellence

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India

+91 9930914687  
+91 9833643377  
022 27682953

[www.abakengg.com](http://www.abakengg.com)  
[enquiry@abakengg.com](mailto:enquiry@abakengg.com)



We offer cost effective solutions to our clients along with value engineering and industry standard quality for all electrical distribution and control panels

## WE MANUFACTURE ALL TYPES OF LT PANELS

IEC-61439 TTA Panel	Power Control Centre Panel	L.T. Bus Duct
Main LT Panel	Annunciator & Mimic Control Panel	Feeder Pillar
Fire Fighting MCC Panel	Motor Control Centre Panel	AMF Panel
Power & Lighting Board	Auto Transformer Starter Panel	APFCR Panel
AC & DC Drive Panels	Outdoor Type Panel	DG Synchronising Panel

## About Us

Abak Electrofab Engg. is a fast growing firm in the electrical field industry, known for specializing in a wide range of Power and Control Panels for all kind of industries. Equipped with all the facilities for manufacturing various types of Power and Control Panels, we have a professional team, which monitors that all the quality standards of each product are adhered to provide our client's expectations. Our projects stand testimony to the fact that Abak Electrofab delivers quality solutions.

Abak Electrofab is flexible enough to perform all types of project work depending upon any tender conditions. Our highly qualified and experienced team ensures to provide cost effective solutions along with high level performance.

## Vision

At Abak Electrofab, our approach is total service coordination. We are dedicated to excellence and assurances. We believe that each client/project has special need and therefore we provide special responsiveness from beginning to end, and make cost-effective design to meet the needs of client. Also product invention is a continuous process at Abak Electrofab. We design the projects in best economical manner. The approach of Abak is to reduce highly personalized service at each stage and to attend to the need of the project.

## Our Mission

Our mission is to provide superior services in our industry while consistently exceeding our customer's quality and delivery expectations. We achieve this through our strong commitment to continuous quality improvement and investments in the newest technologies by providing innovative electrical solutions and applications by utilizing superior materials. In our presence in the field of Electrical Control Panels since more than 23 years, we achieved remarkable growth, success and are thriving to gain more heights. We believe in working together as a team to deliver quality services to our customers to meet all their expectations.

## Our Culture

At Abak Electrofab Engg. We believe in International Quality Standards. Our highly qualified and experienced team equipped with the latest machineries and technologies ensures to provide cost effective solutions along with high level performance. Our duty is to provide superior services in our industry while consistently exceeding our customer's quality and timely delivery expectations. Our objective is to develop long-term relationship with our clients, and servicing them through the delivery of integrated solutions that benefit their business requirements.



# PRODUCT RANGE

- Power Control Centre - Single / Double Front.
- L.T. Bus Ducts.
- AMF ( Auto / Main / Failure ) Panels for D.G. Sets.
- Power & Lighting Distribution Panels.
- Fire Fighting MCC Panels.
- Annunciator Panels / Mimic Panels.
- Motor Control Centre - Single / Double Front.
- Power Factor Correction Panel - Thyristor Based / Contactor Based.
- Auto Transformer Starter Panels.
- Control Desk & PLC Panels.
- AC & DC Drive Panels.
- L.T. Feeder Pillars - Indoor / Outdoor.



**PCC Panel**



**Metering Panel**



**MCC Panels**



**Relay Control Panel**



**Chiller Panel**



**Main LT Panel**



**LT Panel**



**Starter Panel**



**Power Distribution Board**



# PRODUCT RANGE



**Control Desk**



**AHU Panel**



**Lighting Distribution Board**



**Mimic Control Panel**



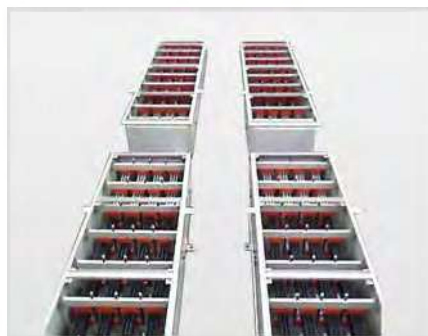
**MCC Panel**



**DC Drive Panel**



**PLC Panel**



**LT Bus Ducts**



**Stainless Steel Control Desk**



**Outdoor Type Panel**



**Feeder Pillar**



**Fire Fighting Panel**

# Certificate



Schneider Electric India Pvt. Ltd. states that:



**Abak Electrofab Engineering Pvt. Ltd.**

C - 417, MIDC, TTC, Turbhe,  
Navi Mumbai - 400705



is an EcoXpert LV Panel (Certified) Partner and is authorized to assemble, test and sell the **PrismaSeT International** system in accordance with the technical specifications of Schneider Electric.

Schneider Electric EcoXpert LV Panel (Certified) Partner for PrismaSeT International system, receives training on the PrismaSeT International system, Schneider Electric switchgear components, latest technologies and IEC standards and is audited on a regular basis to ensure that the partner delivers the best service and performance.

**This certificate is valid until  
December 31<sup>st</sup>, 2024**

Certificate Number:

**PS-WH-201924-IN-AKT**

A blue ink signature of Nikhil Pathak is located on the left side.

**Nikhil Pathak**

Vice President  
Offer Marketing & Business  
Development

A blue ink signature of Utkersh Sagreiya is located on the right side.

**Utkersh Sagreiya**

Director  
Channel Marketing &  
Partner Support Program

Life Is On

**Schneider**  
Electric

## Product Range



**APFC Panel**



**Power and Lightning  
Distribution**



**AMF Panel**



**Outdoor Type Panels**



**LT Bus Duct**



**Starter Panel**



## Product Range



**Main LT Panel**



**PCC Panel**



**MCC Panel**



**DG Sync Panel**



**Fire Fighting MCC Panel**



**Prisma Panel**

# 9 Tank Process



Powder Coating Booth



9- Tank



Electric Oven

## 9 Stages of Tank Process



Degreasing



Water Rinse



Derusting



Water Rinse



Activation



Phosphating



Water Rinse



Water Rinse



Passivation

# MACHINERY & EQUIPMENT DETAILS



CNC Turret Punch Press (AMADA)



Shearing Machine (Godrej)



Hydraulic Press Brake (AMADA)

## **FABRICATION**

SR NO	NAME OF MACHINERY	MAKE	QTY
1	CNC Turret punch press	AMADA	1
2	Hydraulic press brake with auto back gauge	AMADA	1
3	Busbar cutting, Bending, Punching machine	AMADA	1
4	Welding machine	ASIATIC WELDERS	4
5	Busbar cutting machine	JASVANTH	1
6	Angle grinding machine	BLACK & DECKER	2
7	Table drilling machine	PRABHAT	1
8	Spot welding machine	ASIATIC WELDER	1
9	Angle grinding machine	RALLIWOLF	2
10	Busbar bending machine	DEEPAK	1
11	Hand drilling machine	BLACK & DECKER	3
12	Blower	HITACHI	1
13	Bench grinding machine	ELEC. MFG. CO	1
14	Tapping machine		1

## **POWDER COATING**

1	Oven (60 KW Electric heater)	AUTOCOAT	1
2	Powder coating machine	THERMAX	1
3	Painting booth	AUTOCOAT	1
4	Air compressor - 3 Phase	FOWJI	1



# TESTING INSTRUMENTS

SR NO	NAME	DESCRIPTION	MAKE
1	Megger (Insulation Tester) - Analog	0-500 M $\Omega$ / 1000 V DC	MOTWANE
2	Megger (Insulation Tester) - Digital	0-2000 M $\Omega$ / 1000 V DC	MOTWANE
3	HV Tester - Analog	0 TO 5 KV / 0-30 MA AC	AE
4	HEAT RUN Testing Equipment	0 TO 4000 A, 415 V	NEC
5	Digital Multimeter	10 A, 200 MA, 440 V	KUSAM-MECO
6	Vernier Caliper	0-400 mm	YAMAYO,JAPAN
7	Vernier Caliper	0-200 mm	YAMAYO,JAPAN
8	Digital Thickness Gauge	0-12.5 m	MITUTOYA, JAPAN
9	Measuring Tape	5 METER	TAPARIA
10	Pen Type Thickness Gauge (Powder Coating)	0 TO 500 MICRON	YUYUTSU,JAPAN
11	Wire Gauge	1 GAUGE TO 32 GAUGE	PUJIKOJU
12	Digital Multimeter	0-750 VAC	IDEAL
13	Digital AC/DC Clampmeter	10A-200MA	IDEAL

# EXECUTED PROJECTS

Customer	Project
<b>Commercial Projects</b>	
A.S Electric Corporation	Office Building - Gail India Ltd, CBD Belapur, Navi Mumbai.
Artemis Properties Pvt. Ltd	IT Park Building - Faurecia, Pune.
Ashok Engineering	Custom Office Building - Nhava Sheva Port, JNPT.
	MTNL Office Building - Comballa Hill, Fort, Powai, Bandra, Thane & Vashi.
Ahluwalia Contracts (India) Limited	Bank Of India - Bandra Kurla Complex, Mumbai.
B G Shirke Construction Technology Pvt. Ltd	Millennium Business Park - Mahape & Millennium Tower-Sanpada.
Bansi Electricals	Reserve Bank Of India Colony - CBD Belapur, Navi Mumbai.
Bright Electricals	L&T Office Building - Powai & Mahape.
Daanish Sales Corporation	MTNL Office Building - Cuff Parade, Fountain & Thane.
Hi Tech Construction Group	Dumping Station - Turbhe, Navi Mumbai.
Hindustan Construction Company	Union Bank of India - Powai, Mumbai.
	State Bank Of India - Powai, Mumbai.
Indian Express Ltd	Head Office - Nariman Point, Mumbai & Mahape.
Kesar Group	Office Building - Palm Beach Road, Navi Mumbai.
Leena Powertech Engineers Pvt. Ltd	Cidco Bhavan - CBD Belapur, Navi Mumbai.
	IDBI Bank - CBD Belapur, Navi Mumbai.
	Railway Station - Kharghar, Kopar Khairane & Rabale. Navi Mumbai.
	State Bank Of India Global IT Centre - CBD Belapur, Navi Mumbai.
Larsen & Toubro Ltd	Omkar Project - Wadala, Mumbai.
New Fire Control	New Passport Office Building - Bandra Kurla Complex, Mumbai.
Pratibha Industries Ltd	Railway Station - Airoli & Ghansoli, Navi Mumbai.
Reliance Industries Pvt Ltd	NMSEZ IT Building - Navi Mumbai.
Reunion Engg Co Ltd	IL & FS Office Building - Bandra Kurla Complex, Mumbai.
Sterling & Wilson Elect Pvt Ltd	Tata Consulting Services - Office Building, Thane.
	VSNL Office Building - Pune, Maharashtra.
Tata Consulting Engineers	Office Building - Vikhroli, Mumbai.
Theji Electrical	Railway Station - CBD Belapur, Navi Mumbai.
Voltas Ltd	Punjab National Bank - Bandra Kurla Complex, Mumbai.

# EXECUTED PROJECTS

Customer	Project
<b><u>Government Projects</u></b>	
A.S Electric Corporation	NMMC Pumping Station - Airoli & Ghansoli, Navi Mumbai.
	CIDCO Pumping Station - Pen, Maharashtra.
Capital Control Pvt Ltd	Pumping Station - Panjarpur, Bhiwandi, Mumbai.
Cool Air Engineering Company	HAL (Hindustan Aeronautics Ltd-Nashik, Maharashtra.
	CNW (Naval Station) - Karanja Project.
Daanish Sales Corporation	Mumbai Port Trust - Mumbai.
Friends Engineering Corporation	MJP - Buldhana, Temghar, Maharashtra.
Godrej & Boyce MFG Co Ltd	BARC (ESD (V) -61 Kalyan, Thane.
	BARC/TSD/43/2009 - 10, Mumbai.
Indigenous Control Electrical Pvt Ltd	India Security Press - Nasik, Maharashtra.
Leena Powertech Engg Pvt Ltd	NMSA (Navi Mumbai Sports Association) Vashi, Navi Mumbai
	NMMC Head Office - CBD Belapur, Navi Mumbai.
	Wonders Park - Nerul, Navi Mumbai.
	Central Park - Kharghar, Navi Mumbai.
Naik Environmenatal Engg	Cidco Exhibition Center & Business Center - Vashi.
NCC Ltd	Sewage Treatment Plant - Rabale, Navi Mumbai.
New Fire Engg Pvt Ltd	Mazagon Dock Ltd, Mumbai.
Reliable Electric Works	BHEL – Korba - East, Chhatisgarh.
	Sewage Treatment Plant - Panvel, Navi Mumbai.
Siemens Ltd	NMMT Bus Depot - Turbhe, Navi Mumbai.
	Gujarat Water Supply & Sewerage Board - Gujarat.
The Brindavan Corporation	Military Engg Services (MES) - INS HAMLTA, Malad, Mumbai.
	Air Force Station - Cotton Green, Mumbai.
	Garrison Engg - Colaba, Mumbai.
Three Star Engg Pvt. Ltd	Mod Labs BARC - Trombay, Mumbai.
Yogiraj Powertech Pvt. Ltd	11 KV Purnima Sub Station, BARC - Trombay, Mumbai.
<b><u>Hospital Projects</u></b>	
Amit Construction	NMMC Hospital - Airoli, Navi Mumbai.
	NMMC Hospital - Nerul, Navi Mumbai.
MGM Hospital	Vashi, Belapur, Kalamboli, Kamothe & Sanpada.
Power flash Electricals	Bhatia Hospital - Tardeo, Mumbai.
Sterling & Wilson Elec. Pvt.Ltd	Aditya Birla Memorial Hospital - Pune, Maharashtra.



# EXECUTED PROJECTS

Customer	Project
<b><u>Industrial Projects</u></b>	
Allana Foods Ltd	Aurangabad, Aligarh & Taloja.
Bharat Gears Ltd	Kalwa - Thane.
Essar Agrotech Ltd	Pawna Nagar & Tungi Site - Lonavala, Maharashtra.
Exide Industries	Taloja, Navi Mumbai.
GSN Ferro alloys Pvt Ltd	Secunderabad, Andhra Pradesh.
Hindustan Insecticides Ltd	E C Plant - Rasayani, Raigad District, Maharashtra.
Hindustan Stainless Pvt Ltd	Khopoli, Raigad District, Maharashtra.
Ispat Industries Ltd	Ispat Jetty - Pen, Raigad District, Maharashtra.
Multiway Automation Pvt Ltd	Tata Steel Ltd - Kolkata.
Nelco Ltd	IISCO steel plant - Burnpur, West Bengal.
Niraj Cement Structures Ltd	Panvel Plant, Raigad District, Maharashtra.
Owens Corning India Ltd	Glass Factory - Taloja, Navi Mumbai.
Parle International Pvt Ltd	Patalganga, Maharashtra.
Petron Engineering Construction Ltd	ACC Ltd - Cement Plants, Wadi, Karnataka.
	Madras Cement Ltd - Andhra Pradesh.
Simsys Enterprises	Coca cola Plant - Thane, Maharashtra.
Sheetal Cold Storage Pvt Ltd	Turbhe & Taloja Plant, Navi Mumbai.
Sri Jayalakshmi Ferro Alloys Pvt Ltd	Visakhapatnam, Andhra Pradesh.
Tata Steel Ltd	Gopalpur, Odisha.
<b><u>Oil, Gas &amp; Chemical Projects</u></b>	
Agnice Fire Protection Ltd	IOCL - Uhde, Vadodara, Gujarat.
	HPCL - Trombay, Mumbai, Maharashtra.
	MRPL - Mangalore, Karnataka.
Asean Power Engg Pvt Ltd	Fugro Survey India Ltd-Turbhe, Navi Mumbai.
BASF India Ltd	Turbhe, Navi Mumbai.
Clariant Chemicals Pvt Ltd	Bhiwandi, Maharashtra.
Datamatrix Information Tech Ltd	IOCL - Digboi Refinery, Assam.
Dorf Ketal Chemicals Ltd	Taloja, Raigad District, Maharashtra.
IOT Engineering Projects Pvt Ltd	IOCL, Panipat, Haryana.
Maharashtra Polybutines Ltd	Mahape, Navi Mumbai.
National Peroxide Ltd	Village Vadavali, Kalyan, Maharashtra.
Pennwalt India Ltd	Oil Purification Unit - Turbhe, Navi Mumbai.
Petron Engineering Construction Ltd	IOCL - Panipat, Haryana.
	GAIL - Panipat, Haryana.
Power House	ONGC - Panvel, Navi Mumbai.
Tyco Engg & Cont. Pvt Ltd	LPG Bottling Plant - Pondicherry.
Voltas Ltd	IOCL, Panipat, Haryana.

# EXECUTED PROJECTS


Customer	Project
<b><u>Pharmaceutical Projects</u></b>	
Aanjaneya Biotech Pvt Ltd	Mahad, Raigad Distric, Maharashtra.
Anuh Pharma Ltd	Tarapur, Maharashtra.
Enaltec Labs Pvt Ltd	Ambarnath, Maharashtra.
Glenmark Pharmaceutical Ltd	R&D center - Mahape, Navi Mumbai.
Nestler Ltd	Glenmark Pharmaceutical Ltd – Goa.
	Cipla Ltd - Kurkumbh, Pune, Maharashtra.
Omkar Speciality Chemicals Pvt Ltd	Badlapur, Thane.
Padarsh Pharmaceuticals Pvt Ltd	Pawane, Navi Mumbai.
Shreechem Pharmaceuticals Pvt Ltd	Rabale, Navi Mumbai.
<b><u>Power Plant Projects</u></b>	
ABB Ltd	Tata Electric 245KV GIS Backbay Sub station Project - Mumbai.
Agnice Fire Protection Ltd	Adani Power Ltd - Kawai, Rajasthan.
	BLA Power Plant Project - Jabalpur.
Batliboi Environmental Engg Ltd	NTPC - Tanda Thermal Power, Uttar Pradesh.
Datamatics Information Technologies Ltd	NTPC - Unchahar Project, Uttar Pradesh.
	NTPC - Singrauli, Madhya Pradesh.
IOT Engineering Projects Pvt Ltd	Thermal Power – Kawai, Rajasthan.
Leena Powertech Engg Pvt Ltd	Power Plant-Dabhol, Haryana.
Petron Engineering Construction Ltd	Tata Electric CO's – Kundli, Haryana.
Siemens Ltd	Tata Electric CO's Hydro Power Plant.
Urja Engineering Pvt Ltd	Kakrapar Atomic Power Project - UNITS – 3&4 ,NPCL-Gujarat.
<b><u>Residential Project</u></b>	
Ashok Engineering	Residential quarters - Nhava sheva, Maharashtra.
B G Shirke Construction Tech Pvt Ltd	Millennium Towers - Sanpada, Navi Mumbai.
Damadortech Pvt Ltd	Lavasa Hill City, Temghar Lavasa Road, Padalghar.
Leena Powertech Engg Pvt Ltd	Spaghetti Mass Housing Project – Airoli & Kharghar.
	NRI Complex - CBD Belapur, Navi Mumbai.
Larsen & Toubro Pvt Ltd	Omkar Rehab Project - Bhoiwada, Mumbai.

# EXECUTED PROJECTS

Customer	Project
<b><u>School &amp; college Projects</u></b>	
A S Electric Corporation Ltd	IIT, Powai, Mumbai.
Leena Electro Mechanical Pvt. Ltd.	Fr. Agnel School - Vashi, Navi Mumbai.
Lanco Infotech Ltd	Fr. Agnel School - Ambernath.
New Horizon School	Airoli & Panvel, Navi Mumbai.
DAV School	Airoli, Nerul & Panvel- Navi Mumbai.
Seventh Day School	Sanpada, Navi Mumbai.
<b><u>Export Project</u></b>	
Allana-Frigeria Boran Foods	Adamatulu - Ethiopia (Africa).
Direct Reduction Iron Co. Ltd	Dammam, Saudi Arabia.
Tuwairqi Group of companies	Al Tuwairqi Group National Iron & Steel Factory - Karachi.
Busi & Stephenson Ltd, UK	Intercap Food Processing Plant, Zartech Ltd - Nigeria.
	Sweetco Foods & Zaritech Ltd - Nigeria.
Concept point telecom ltd	Ijede Ikorodu Lagos - Nigeria.
Damadortech Pvt Ltd	Faiz E Husaini - Karbala Faiz – Iraq.
Firescan Safety System Pvt Ltd	Kathmandu - Nepal.
Indus International FZC	Sharjah, United Arab Emirates (UAE).
Lloyd Power Ltd	Dubai - United Arab Emirates (UAE).
Multiway Automation Pvt Ltd	Match Corporation Ltd - Luanshya, Zambia.
National biscuit industries ltd	Rusayl, Muscat - Oman.
New Electrical Pvt Ltd	Slaughtering Plant Zartech Ltd - Nigeria.
PCL International Pvt Ltd	Singapore.
Salman Al Johar Ferro Alloys Factory	Dammam - Saudi Arabia.
Siemens Ltd	Mascot.
BEST Exports Centre Pvt Ltd	Nigerian Mill - Nigeria.
Ultra Electric Co Pvt Ltd	Athi River Mining Ltd, Nairobi- Kenya.
<b><u>Miscellaneous Projects</u></b>	
Bajaj Electrical Pvt Ltd	All over India.
Emerson Network Power Pvt Ltd	All over India.
Reliance Communication Ltd	DAKC, Mahape, Mumbai.
Reliance Infocomm Infrastructure Pvt Ltd	MBP, Mahape, Mumbai.
Vodatone Essar cellular Ltd	Pune, Nagpur.



## IP-42 TEST REPORT

 <b>GOVERNMENT OF INDIA</b> <b>ELECTRONICS REGIONAL TEST LABORATORY (WEST)</b> <b>MINISTRY OF COMMUNICATIONS &amp; INFORMATION TECHNOLOGY</b> <b>DEPT. OF INFORMATION TECHNOLOGY, STQC DTL</b>		
REPORT NO.: ERTL(W)/2011ENV/171		Certificate No. T-134
TEST REPORT		
TITLE: TESTING OF CONTROL PANEL		DATE OF ISSUE: 06-JUL-2011
<b>1.0 Scope</b> 1.1 Service request no and Date: As per cover sheet 1.2 Name and address of Customer: As per cover sheet		
1.3 Description & Identification of Test Item(s)	Nomenclature: CONTROL PANEL* Make: ABAK ELECTROFAB ENGG PVT. LTD. Model/Type: ABAK-03* Sr. No.: 6479 Quantity: 01 NO.	
1.4 Item(s) condition on receipt: OK	Received Date: 30-JUN-2011	Test Completed Date: 01-JUL-2011
1.5 Testing performed at:	ERTL (W), Mumbai	
1.6 Test Specification / Test Procedure used	IP-42, AS PER IS:13947 ERTL(W)/ENV/OP/33	
1.7 Major Equipments used and Traceability Details:		
Sl. No.	Equipment Used	Uncertainty (Best Case)
1	Dripping Water Apparatus (Code No. ENV/105)	
2	Rigid Steel Wire (Diameter: 1mm) (Code No. ENV/090)	$\pm 20 \mu m$
* : Declared by customer but not found on the sample.		

QSF 5.10.02, dated 01/7/2008

## IP-43 TEST REPORT

 <b>ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION</b> (Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India) ERDA Road, Maharashtra Industrial Estate, Vadodra-390 010, India. CHAIRMAN: -01 (0265) 2642942, 2642964, 2642977, 2642978 / 29-126-131 / 33. Fax: -01 (0265) 2635555 E-mail: erda@erda.org WEB: -1982/www.erda.org		
TEST REPORT		SHEET 01 OF 02
NAME AND ADDRESS OF CUSTOMER		TEST REPORT NO.: ERP-1516-002964
ABAK ELECTROFAB ENGINEERING PVT. LTD. C-416, TTC, MIDC, TURBHE, NAVI MUMBAI - 400705.		DATE: 24/04/2015
SAMPLE DESCRIPTION		CUSTOMER REF. NO. DATED
2 WAY DISTRIBUTION PANEL FOR 100KVA TRANSFORMER WITH 125A MCCB		Nil 10/04/2015
Containing: 2 Nos. of 125A TP MCCB in outgoing circuit & Busbars		DATE OF SAMPLE RECEIPT DATE OF TESTING
TEST DETAILS		08/04/2015 21/04/2015
1.0 IP 43 tests		SAMPLE IDENTIFICATION
Enclosure: i) Photograph No.: a) ERDA-00086519/1 to 3 ii) Drg. No.: LPEPL-6188 (Rev. 05) (Sheet 1 of 2) (Sheet 2 of 2) (Total 2 sheets)		ERDA Sample Code No.: ERDA-00086519
Test witnessed by: Mr. Chetan B. Vichave (Sr. Testing Engineer) from M/s. ABAK Electrofab Engineering Pvt. Ltd., Navi Mumbai.		Drg. No.: LPEPL-6188 (Rev. 05) (Sheet 1 of 2) (Sheet 2 of 2) (Total 2 sheets)
Remarks: Sample conforms to the requirement of IP 43 tests as per the standard.		Sr. No.: 8597
PREPARED BY		TEST SPECIFICATION
CHECKED BY		IEC 60529-2013
APPROVED BY (G. SOM)		

QSF 5.10.02, dated 01/7/2008

## IP-52 TEST REPORT

 <b>GOVERNMENT OF INDIA</b> <b>ELECTRONICS REGIONAL TEST LABORATORY (WEST)</b> <b>MINISTRY OF COMMUNICATIONS &amp; INFORMATION TECHNOLOGY</b> <b>DEPT. OF INFORMATION TECHNOLOGY, STQC DTL</b>		
REPORT NO.: ERTL(W)/2008ENV320		Certificate No. T-134
TEST REPORT		
TITLE: TESTING OF ELECTRICAL PANEL ENCLOSURE		DATE OF ISSUE: 06-OCT-2008
<b>1.0 Scope</b> 1.1 Service request no and Date: As per cover sheet 1.2 Name and address of Customer: As per cover sheet		
1.3 Description & Identification of Test Item(s)	Nomenclature: ELECTRICAL PANEL ENCLOSURE Make: ABAK ELECTROFAB ENGINEERING PVT LTD Model/Type: --- Sr. No.: 4702 Quantity: 01	
1.4 Item(s) condition on receipt: OK	Received Date: 25-SEP-2008	Test Completed Date: 02-OCT-2008
1.5 Testing performed at:	ERTL (W), Mumbai	
1.6 Test Specification / Test Procedure used	IP-52/ IS: 13947, in conjunction with Customer's Specification ENV/OP/033.	
1.7 Major Equipments used and Traceability Details:		
Sl. No.	Equipment Used	Uncertainty (Best Case)
1	Dust Test Chamber	$\pm 0.75^\circ C$
2	Spray Test system	$\pm 0.12 \mu m$

QSF 5.10.02, dated 01/7/2008



## IP-54 TEST REPORT

<b>ELECTRONICS REGIONAL TEST LABORATORY (WEST) REPORT NO.</b> <b>DEPARTMENT OF ELECTRONICS (STQC Dtl.)</b> <b>SUBJECT: TESTING OF CONTROL PANEL</b>		<b>ERTL(W)/98ENV00762</b> <b>18 DEC 1998</b> <b>PAGE 1 OF 03</b>
<b>1. SCOPE</b> 1.1 Service Request Details 1.1.1 Service Request No.: ERTL(W)/981462 dated 20-NOV-98 1.1.2 Service Request finalized on: 20-NOV-98 1.1.3 Requested by (Name and address of organization): ABAK ELECTROFAB ENGG. P. LTD. C-416, MIDC TTC, TURBHE, NAVI MUMBAI-400705. 1.2 Item Details: 1.2.1 Description Qty. Type/ Model No. Sr. No. Manufacturer CONTROL PANEL 01 ERTL/220 ABAK ELECTROFAB ENGINEERING PVT. LTD. 1.3 Ambient Conditions: Temperature: $\pm 15$ to $\pm 35$ deg.C Humidity: $\pm 45$ to $\pm 75$ % RH 1.4 Test Specifications: IP54(b) Conditioning as per IS:13947 1.5 Environmental Simulator used: 1. Dust Chamber 1 Code: ENV/032/ 2. Spray Nozzle		


QSF 5.10.02, dated 01/7/2008



## IP-55 TEST REPORT

 <b>GOVERNMENT OF INDIA</b> <b>ELECTRONICS REGIONAL TEST LABORATORY (WEST)</b> DEPT. OF INFORMATION TECHNOLOGY, STQC DTE.		 Certificate No. T-134		
REPORT NO. ERTL/WJ/2005ENV253		PAGE 1 OF 8		
<b>TEST REPORT</b>				
TITLE: TESTING OF ELECTRICAL CONTROL PANEL		DATE OF ISSUE: 03-AUG-2009		
<b>1.0 SCOPE</b> 1.1 Service request no and Date: As per cover sheet 1.2 Name and address of Customer: As per cover sheet				
1.3 Description & Identification of Test item(s)	Nomenclature: ELECTRICAL CONTROL PANEL Make: ABAK ELECTROFAB ENGG. PVT. LTD. Type: _____ SI. No.: 5248 Quantity: 01 No.			
1.4 Item(s) condition on receipt: OK	Received Date: 29-JUL-2009	Test Completed Date: 30-JUL-2009		
1.5 Testing performed at:	ERTL (W), Mumbai			
1.6 Test Specification / Test Procedure used	IP-55 Category 2 as per IS 13947 ERTL (W) ENV/053			
<b>1.7 Major Equipments used and Traceability Details:</b>				
Sl. No.	Equipment Used	Uncertainty (Best Case)	Calibration Report Ref.	Valid up to
1	Dust Test Chamber (Code No. ENV/053)	$\pm 0.30^\circ\text{C}$	2007INP999	17-FEB-2010
2	Ingress Protection Test System (IPXS & IPX6)	$\pm 0.07\text{mm}$	2007INP281	24-JUN-2010

QSF 5.10.02, dated 01/7/2008




## IP 65 TEST REPORT

 <b>ELECTRONICS REGIONAL TEST LABORATORY (WEST)</b> DEPARTMENT OF INFORMATION TECHNOLOGY (STQC Dte.)		<b>REPORT NO.</b> ERTL (WJ/2005ENV338)	
SUBJECT: TESTING OF STARTER PANEL		DATE: 7 OCT 2005	
PAGE 1 OF 1			
<b>1.0 SCOPE</b>			
1.1 Service Request Details	ERTL (WJ/20051706) 29 SEP 2005		
1.1.1 Service Request No.	29 SEP 2005		
1.1.2 Service Request finalized on	29 SEP 2005		
1.1.3 Requested by (Name and address of Organization)	ABAK ELECTROFAB ENGINEERING PVT. LTD. C-416, MIDC, TTC, TURBHE, NAVI MUMBAI 400 705		
<b>1.2 Item Details (as specified by the Customer)</b>			
1.2.1 Nomenclature	Qty	Type No. Serial No. Manufacturer	
STARTER PANEL	01	— 2843	ABAK ELECTROFAB
1.3 Ambient conditions			
Temperature: (25 to 35) °C			
Humidity: (45 to 75) % RH			
1.4 Test Specifications			
IP 65 tests as per IS: 13947 1993			
1.5 Environmental Simulators used			
1. Dust Chamber (Code: ENV/053) 2. Spray Nozzle (Code: ENV/080)			
<b>2.0 TEST RESULTS:</b>			
2.1 IP 6X	8-hour conditioning at Ambient temperature as per IS: 13947		
2.2 IP X5	3-minute conditioning as per IS: 13947		
2.3 Observations	a. No deposit of dust was observed inside the enclosure after IP 6X test. b. No ingress of water was observed inside the enclosure after IP X5 test.		
<b>3.0 GENERAL REMARKS:</b>			
a. NABL Certificate No. T-0134 b. This report is for environmental conditioning only. No Electrical/Functional check have been carried out before, during or after conditioning by us.			
REPORT APPROVED BY		REPORT RELEASED BY	
[P. K. Dutta] Head, Test Operations		[Vandana Singh] O/C, Customer Service Cell	




## IP-66 TEST REPORT



 <b>ELECTRONICS REGIONAL TEST LABORATORY (WEST)</b> DEPT. OF INFORMATION TECHNOLOGY (STQC Dte.)		<b>REPORT NO.</b> ERTL (WJ/2005ENV346)			
SUBJECT: TESTING OF STARTER PANEL		DATE: 14 NOV 2005			
PAGE 1 OF 2					
<b>1 SCOPE</b>					
1.1 Service Request Details	ERTL(WJ/20051812) 14-OCT-2005				
1.1.1 Service Request No.	14-OCT-2005				
1.1.2 Service Request finalized on	14-OCT-2005				
1.1.3 Requested by (Name and address of Organisation)	ABAK ELECTROFAB ENGINEERING PVT. LTD. C-416, MIDC, TTC, TURBHE, NAVI MUMBAI 400 705				
<b>1.2 Item Details</b>					
1.2.1 Nomenclature	Qty	Type No. Serial No. Manufacturer			
STARTER PANEL	—	2843 — ABAK ELECTROFAB ENGINEERING PVT. LTD.			
1.3 Ambient conditions					
Temperature: (15 to 35) °C Humidity: (45 to 75) % Rh					
1.4 Test Specifications					
IP 66 As per IS 13947, 1993					
1.5 Environmental Simulators used					
i. Dust Chamber (Code: ENV/053) ii. Spray Nozzle (Code: ENV/081)					
<b>2.0 TEST RESULTS:</b>					
S.No	Test	Test Condition	Requirements	Observations	Remarks
1.0	IP 6 X				
1.1	Visual check	With naked eye	There shall be no visual damage and no presence of dust inside the enclosure.	No visual damage and presence of dust observed inside the enclosure.	Complied
1.2	IP 6 X	As per IS: 13947 - 1993 Temp. Ambient Duration: 8 hrs	As per IS: 13947 - 1993	Conditioned	—
1.3	Visual check	As per IS: 13947 - 1993	As per IS: 13947 - 1993	No Ingress of dust found inside the UUT.	Complied
2.0	IP X 6				
2.1	Visual Check	With naked eye	There shall be no presence of water inside the enclosure.	No presence of water observed inside UUT.	Complied
2.2	IP X 6	As per IS: 13947 - 1993 Temp. Ambient Duration: 3 min	To be Conditioned	Conditioned	—
2.3	Visual check	As per IS: 13947	As per IS: 13947	No ingress of water found inside UUT.	Complied

\* as specified by the customer.

UUT: Unit Under Test



## SHORT CIRCUIT TEST REPORT

<b>CENTRAL POWER RESEARCH INSTITUTE</b> (MEMBER OF STL)		 <b>CPRI</b>
<b>TEST REPORT</b>		
Test Report Number	S2140147	Date: 5 MAR 2014
Name & address of the Customer	Mis Abak Electro Fab Engineering Pvt.Ltd., C-416, MIDC, TTC, Turbhe, Navi Mumbai-400 705	
Name & address of the Manufacturer	M/s Abak Electro Fab Engineering Pvt.Ltd., C-416, MIDC, TTC, Turbhe, Navi Mumbai-400 705	
Particulars of sample tested	PCC LT Panel	
Condition of sample on Receipt	New	
Type	Indoor	
Designation	PCC LT Panel	
Serial number	AEEPL/SC/14-15/01	
Number of samples tested	One	
Date(s) of Test(s)	19 <sup>th</sup> February 2014	
CPRI sample code no.	STDSS214S0213	
Particulars of tests conducted	Verification of the short circuit withstand strength	
Test in accordance with	As per clause 8.2.3 of IS: 8623 (Part I)-1993	
Sampling plan	Not applicable	
Customer's requirement	Nil	
Deviations if any	Nil	
Name of the Witnessing persons	Shri U.K. Rao	
Customer's representative	Nil	
Other than Customer's representatives	None	
Test subcontracted with address of the laboratory		
<b>Documents constituting this report (in words)</b>		
Number of sheets	Five	
Number of oscillograms	Two	
Number of graphs	Nil	
Number of photos	One	
Number of Test circuit diagrams	Two	
Number of drawings	Two	
(HIMANGSHU ROY) TEST ENGINEER		(ANUPAM AWASTHI) JOINT DIRECTOR

## TEMPERATURE RISE TEST REPORT

**CENTRAL POWER RESEARCH INSTITUTE**  
(Member of STL)  
SWITCHGEAR TESTING & DEVELOPMENT STATION  
GOVINDPURA, BHOPAL - 462 023, INDIA  
Phone : +91(0)755 2586882 Fax : +91 (0)755 2587774

**CPRI** Certificate No. T-0011  
Sheet 1 of 5  
TEST REPORT  
Date: 9 DEC 2008

Test Report No. : 2008/STL/783

Name and Address of the Customer : M/s. Abak Electrofab Engineering Pvt. Ltd.  
C-416, MIDC TTC Turbhe,  
Navi Mumbai-400 703

Name and Address of the Manufacturer : M/s. Abak Electrofab Engineering Pvt. Ltd.  
C-416, MIDC TTC Turbhe,  
Navi Mumbai-400 703

Particulars of Sample(s) Tested : 415V, 4000A, PGC Panel

Condition of sample(s) on receipt : New  
Type : Indoor  
Designation : PGC panel  
Serial Number(s) : NIL  
Number of Sample(s) Tested : One  
Date(s) of Test(s) : 16/10/2008  
CPRI sample code number(s) : STDST208S1004  
Sealing of the sample if any : No

Particulars of test(s) conducted : Verification of Temperature Rise Limits  
IS 8623 (Part-1), 1993 & customer requirement

Test(s) in accordance with : Standard/specification : NIL  
Sampling Plan : NIL  
Customer's Requirement : Maximum temperature rise limits on busbar & busbar joints to be 75°C declared by the customer.  
Deviations, if any : NIL  
Name of the witnessing persons : Mr. Murthy Pillai, Electrical Engineer  
Customer's Representatives : NIL  
Other than Customer's Representatives : NIL  
Test subcontracted with name and address of the laboratory : NONE

Documents constituting this report (in words)  
No. of Sheet(s) : SIX  
No. of Oscillogram(s) : NIL  
No. of Graph(s) : NIL  
No. of Photograph(s) : NIL  
No. of Test Circuit Diagram(s) : NIL  
No. of drawing(s) : THREE

**TEST ENGINEER**  
(SATISH KUMAR)

**JOINT DIRECTOR**  
(B. MEHRA)

## TEMPERATURE RISE TEST REPORT

**ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION**  
(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)  
LPEA Road, Maharashtra Industrial Estate, Vashi, Dist. Thane  
LPEA : +91 (022) 2642042, 2642043, 2642044, 2642045, 2642046, 2642047, 2642048, 2642049, 2642050, 2642051, 2642052, 2642053, 2642054, 2642055, 2642056, 2642057, 2642058, 2642059, 2642060, 2642061, 2642062, 2642063, 2642064, 2642065, 2642066, 2642067, 2642068, 2642069, 2642070, 2642071, 2642072, 2642073, 2642074, 2642075, 2642076, 2642077, 2642078, 2642079, 2642080, 2642081, 2642082, 2642083, 2642084, 2642085, 2642086, 2642087, 2642088, 2642089, 2642090, 2642091, 2642092, 2642093, 2642094, 2642095, 2642096, 2642097, 2642098, 2642099, 2642100, 2642101, 2642102, 2642103, 2642104, 2642105, 2642106, 2642107, 2642108, 2642109, 2642110, 2642111, 2642112, 2642113, 2642114, 2642115, 2642116, 2642117, 2642118, 2642119, 2642120, 2642121, 2642122, 2642123, 2642124, 2642125, 2642126, 2642127, 2642128, 2642129, 2642130, 2642131, 2642132, 2642133, 2642134, 2642135, 2642136, 2642137, 2642138, 2642139, 2642140, 2642141, 2642142, 2642143, 2642144, 2642145, 2642146, 2642147, 2642148, 2642149, 2642150, 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