

Couple of 100's (in repeat orders) working reliably all over India for the last many years

3-Stage Filters for 99.97% fumes cleaning
Pre-Cut Metal Plate increases life of 3 Filters
Silent operation with low noise < 60 dBA
Reliable and powerful brushless Turbine

Rigid Gooseneck Arms can be positioned anywhere on table and will stay in same place

Metallic type Square Hoods



Main Extraction Control Unit

ESD Safe Fume Extraction Body with Caster Wheels for easy mobility



No Plumbing required just position on or under the Table as needed

Ready-to-use Complete Package

Caster wheels for easy mobility



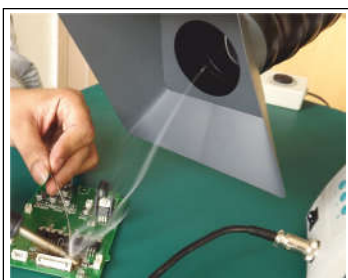
System Choke Alarm:
When display shows circular movement clockwise plus OFF and system beeps, it means any of Filters needs replacement.

Digital Display Indicator

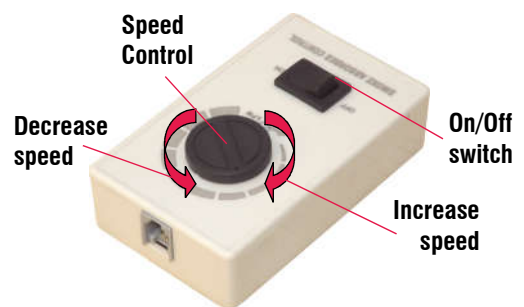


Airflow Setting Switches

Speed Control Regulator Connector



Solder fumes extraction during hand soldering on PCB & Solder Pot tinning



Speed Control Regulator

Scope of Supply

- 1xESD Safe Black Colour Main unit
- 2xESD Safe Extraction Arms (75mm dia, 1.5 meter long)
- 2xMetallic Square Hoods
- 1xSpeed Control Regulator
- 2xSpare Pre-Filters

Specifications

- Input Power Supply : 230V/50Hz, 250W
- No of Workplaces : 2
- Stationary Pressure : 3000 Pa
- Maximum Airflow Rate : 240m³/h
- Filtering Efficiency (0.3um) : 99.97%
- Noise Level : <60dB
- Dimension (LxWxH) (approx) : 470x230x500mm

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Features

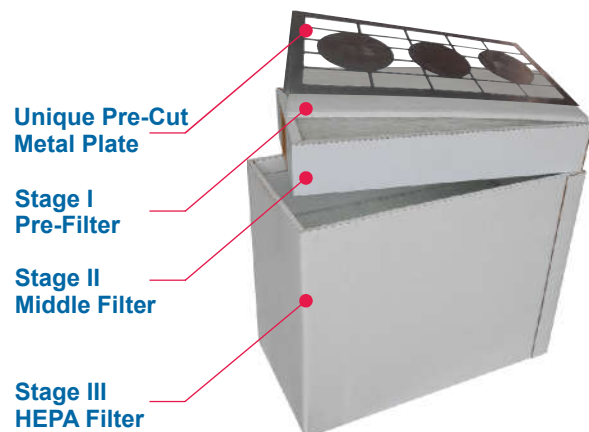
- Hassle-free easy-to-start operation with all inclusive kit supplied
- Easy-to-manoeuvre positioning of Fumes Extraction Arms
- Reliable & virtually maintenance-free Brushless DC Turbine
- Has low noise (< 60 dBA) in operation continuous running
- Filters design removes hazardous gaseous/adhesive substances from fumes.
- Low running cost as normally low cost Pre-Filter mainly need replacement periodically as and when there is choking of fumes extraction.
- Readily availability of all spare parts from stock



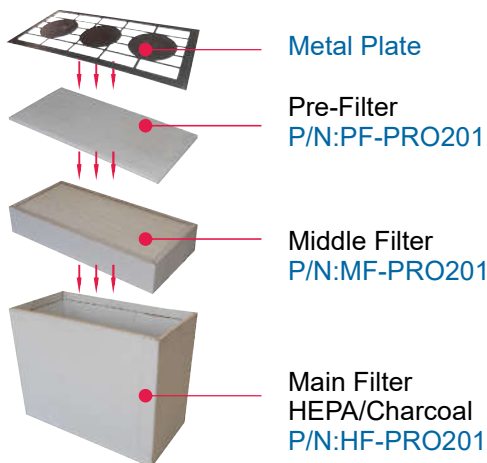
Length of the Extraction Arm is easily adjustable, as this is made from press-fit type small sections which are easily adjustable in length by selection of these sections as per required length.

FES2-75ESD is a reliable and really effective volume extraction type 2-operators ready-to-use Solder Fume Extraction System. It is designed for continuous and reliable working on production line. Its powerful and maintenance-free brushless turbine combined with electronic speed control, provides clean working environment at low maintenance cost. The electronic Speed Controller regulates air-flow volume continuously.

2-operators ready-to-use Solder Fumes Extraction System Model FES2-75ESD is fitted with **3-stage Filters**: Pre-Filter, Middle Filter and HEPA/Charcoal Filter. Combination of these Filters cleans polluted air by separating 99.9% contaminated solder fumes. This System is designed for use both in industrial and laboratory environment. All it needs is mains input Power Supply only.



Details of 3-Stage Filters used in this Fume Extraction System



- **Metal Plate**: Metal Plate on top to increase the life of Filters
- **Stage I Pre-Filter**: The Pre-Filter filters the bigger size particles for prolonging the life of both Middle and Main Filters.
- **Stage II Middle Filter**: It filters coarse size fume particles to prolong life of expensive HEPA/Charcoal Filter
- **Stage III Main HEPA/Charcoal Filter**: This Filter is a combination of HEPA (filters fine size fume particles) and Activated Charcoal (absorbs harmful gas substances) Filters to provide clean air finally.

1. Normally Pre-Filter only needs periodic replacement when there is less suction of fumes.
2. These 3 Filters should never be washed nor should be cleaned with compressed air at all.

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HEPA Filter (High-efficient filter paper: Material - fiberglass)

Refers to Q/320000BXS16-2006 Efficiency and resistance tested by sodium flame			
Item	Test	Specification	Test results
1	Appearance	White and even	White and even
2	Thickness: mm	0.32-0.34	0.33
3	Gram weight: g/m ²	/	75.8
4	Strength: KN/m	≥1.2 (Portrait)	1.33
		≥0.5 (Lateral)	0.724
5	Efficiency: 0.321/min.c m ²	≥98 (0.3um)	99.97 (0.3um)
6	Resistance: 0.321/min.c m ²	≤220	196
7	Stiffness: Mn.m	≥1.2	1.55

Middle Filter (Middle filter paper: Material - fiberglass)

Refers to Q/320000BXS16-2006 Efficiency and resistance tested by sodium flame			
Item	Test	Specification	Test results
1	Appearance	White and even	White and even
2	Thickness: mm	0.32-0.34	0.34
3	Gram weight: g/m ²	/	69.7
4	Strength: KN/m	≥1.2 (Portrait)	1.44
		≥0.5 (Lateral)	0.733
5	Efficiency: 0.321/min.c m ²	≥60	66.67
6	Resistance: 0.321/min.c m ²	30-40	36
7	Stiffness: Mn.m	≥1.2	1.75

Pre-Filter (Filter Material - polypropylene)

Item	Gram per square meter: g/m ²	Free state thickness: mm	Filter speed: m/s	Initial resistance: Pa	Artificial dust efficiency: %	Dust capacity: g/m ²
1	350	5-6	1	323	78	110

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SI. No.	Customer's Name & City	Date of Sale	Qty
1	ABB Ltd., Bangalore	19.05.2011	1
	ABB Ltd., Bangalore	31.10.2014	2
	ABB Ltd., Bangalore	07.06.2016	1
	ABB Ltd., Bangalore	07.09.2016	1
	ABB Ltd., Bangalore	24.06.2017	1
2	ABB Global Industries & Services Pvt. Ltd., Bangalore	13.05.2016	1
3	ADS Sensortechnik Pvt. Ltd., Bangalore	14.12.2015	1
4	Alstrut India Private Limited, Chennai	07.03.2017	1
5	Amphenol Omnicconnect India Pvt. Ltd., Tamilnadu	21.02.2014	1
	Amphenol Omnicconnect India Pvt. Ltd.,Tamilnadu	06.02.2016	2
6	Anicad Systems, Bangalore	09.05.2016	2
	Anicad Systems, Bangalore	21.07.2016	2
7	Apex Electronics, Hyderabad	26.05.2017	5
8	Atlantic Maritime Services Pvt. Ltd., Mumbai	18.03.2017	1
9	Aviohelitronics Systems Pvt. Ltd., Bangalore	07.02.2014	1
10	Balaji Sales, Indore	01.09.2016	1
11	Bharat Electronics Ltd., Jalahalli, Bangalore	22.11.2010	10
	Bharat Electronics Ltd., Jalahalli, Bangalore	05.12.2011	5
	Bharat Electronics Ltd., Jalahalli, Bangalore	02.05.2012	2
	Bharat Electronics Ltd., Jalahalli, Bangalore	19.05.2012	4
	Bharat Electronics Ltd., Jalahalli, Bangalore	27.06.2012	4
	Bharat Electronics Ltd., Jalahalli, Bangalore	06.03.2013	10
	Bharat Electronics Ltd., Jalahalli, Bangalore	13.03.2013	24
	Bharat Electronics Ltd., Jalahalli, Bangalore	30.04.2013	14
	Bharat Electronics Ltd., Jalahalli, Bangalore	01.08.2013	4
	Bharat Electronics Ltd., Jalahalli, Bangalore	24.04.2014	2
	Bharat Electronics Ltd., Jalahalli, Bangalore	26.04.2014	4
	Bharat Electronics Ltd., Jalahalli, Bangalore	13.03.2014	10
	Bharat Electronics Ltd., Jalahalli, Bangalore	17.11.2015	10
	Bharat Electronics Ltd., Jalahalli, Bangalore	05.02.2016	2
	Bharat Electronics Ltd., Jalahalli, Bangalore	04.05.2016	4
	Bharat Electronics Ltd., Jalahalli, Bangalore	28.02.2017	2
	Bharat Electronics Ltd., Jalahalli, Bangalore	23.03.2017	2
	Bharat Electronics Ltd., Jalahalli, Bangalore	21.04.2017	20
	Bharat Electronics Ltd., Jalahalli, Bangalore	20.11.2017	2
	Bharat Electronics Ltd., Jalahalli, Bangalore	25.11.2017	15
12	Bharat Electronics Ltd., CRL, Bangalore	06.05.2013	3
13	Bharat Electronics Ltd., Pune	09.07.2014	2
	Bharat Electronics Ltd., Pune	06.02.2017	10
	Bharat Electronics Ltd., Pune	13.11.2017	4
14	Bharatiya Reserve Bank Note Mudran Ltd., Mysore	08.03.2014	2
15	Bloom Energy India Pvt. Ltd., Bangalore	26.06.2014	2
16	Blue Chip Electronics, Secunderabad	13.02.2014	1
	Blue Chip Electronics, Secunderabad	10.05.2014	1
	Blue Chip Electronics, Secunderabad	06.06.2014	1

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	Blue Chip Electronics, Secunderabad	09.06.2014	5
	Blue Chip Electronics, Secunderabad	25.07.2014	4
	Blue Chip Electronics, Secunderabad	21.05.2012	6
	Blue Chip Electronics, Secunderabad	27.08.2012	6
	Blue Chip Electronics, Secunderabad	13.04.2016	1
16	BTL India Pvt. Ltd., Bangalore	21.11.2016	1
17	CET Power Solutions India Pvt. Ltd., Chennai	13.08.2014	1
18	Centum Electronics Ltd., Bangalore	03.03.2016	1
19	Danfoss Industries Pvt. Ltd., Chennai	07.03.2013	1
20	Deptt. of Atomic Energy, Chennai	10.03.2016	1
21	Divine Techno Engineers, Vadodra	30.09.2014	2
	Divine Techno Engineers, Vadodra	14.08.2014	1
	Divine Techno Engineers, Vadodra	29.09.2015	2
	Divine Techno Engineers, Vadodra	01.04.2016	5
	Divine Techno Engineers, Vadodra	05.07.2016	2
22	Ericsson India Pvt. Ltd., Jaipur	27.04.2012	1
	Ericsson India Pvt. Ltd., Jaipur	28.07.2012	1
23	EL GI Rubber Co. Ltd., Coimbatore	16.07.2015	1
24	F.J.Tech. Pvt. Ltd., Bangalore	04.03.2011	1
	F.J.Tech. Pvt. Ltd., Bangalore	05.10.2013	2
25	Gallium Arsenide Enabling Technology Centre, Hyderabad	09.03.2017	3
26	Gamesa Renewable Pvt. Ltd.-Chennai	29.09.2015	1
27	Genus Power Infrastructures Ltd., Jaipur	23.10.2017	3
28	Goodrich Areospace Services Pvt. Ltd., Bangalore	02.01.2014	1
	Goodrich Areospace Services Pvt. Ltd., Bangalore	03.04.2013	2
	Goodrich Areospace Services Pvt. Ltd., Bangalore	08.08.2013	1
	Goodrich Areospace Services Pvt. Ltd., Bangalore	20.12.2013	3
	Goodrich Areospace Services Pvt. Ltd., Bangalore	20.03.2014	5
	Goodrich Areospace Services Pvt. Ltd., Bangalore	24.04.2014	8
	Goodrich Areospace Services Pvt. Ltd., Bangalore	28.08.2014	1
	Goodrich Areospace Services Pvt. Ltd., Bangalore	24.04.2015	2
	Goodrich Areospace Services Pvt. Ltd., Bangalore	10.06.2015	2
	Goodrich Areospace Services Pvt. Ltd., Bangalore	03.07.2012	1
	Goodrich Areospace Services Pvt. Ltd., Bangalore	11.06.2014	15
	Goodrich Areospace Services Pvt. Ltd., Bangalore	08.07.2014	9
	Goodrich Areospace Services Pvt. Ltd., Bangalore	05.10.2015	2
	Goodrich Areospace Services Pvt. Ltd., Bangalore	28.10.2015	1
	Goodrich Areospace Services Pvt. Ltd., Bangalore	04/25.11.2015	3+5
	Goodrich Areospace Services Pvt. Ltd., Bangalore	05.05.2016	1
	Goodrich Areospace Services Pvt. Ltd., Bangalore	05.10.2016	2
	Goodrich Areospace Services Pvt. Ltd., Bangalore	16.03.2017	10
29	Hanning Motors Pvt.Ltd., Vadodara	19.10.2015	1
30	HCL Technologies Ltd., Chennai	16.12.2010	2
31	Hindustan Aeronautics Ltd., Hyderabad	27.08.2014	4
	Hindustan Aeronautics Ltd., Hyderabad	30.10.2014	1

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	Hindustan Aeronautics Ltd., Hyderabad	11.03.2015	3
	Hindustan Aeronautics Ltd., Hyderabad	24.04.2015	6
	Hindustan Aeronautics Ltd., Hyderabad	14.02.2013	2
	Hindustan Aeronautics Ltd., Hyderabad	12.05.2011	1
	Hindustan Aeronautics Ltd., Hyderabad	26.11.2015	8
	Hindustan Aeronautics Ltd., Hyderabad	07.06.2016	1
	Hindustan Aeronautics Ltd., Hyderabad	31.01.2017	4
	Hindustan Aeronautics Ltd., Hyderabad	08.09.2017	7
32	Hindustan Aeronautics Ltd., Korwa	15.04.2015	6
33	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	03.10.2012	1
	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	04.10.2011	1
	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	02.11.2011	4
	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	23.11.2011	3
	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	07.12.2012	1
	Honeywell Technology Solutions Lab. Pvt. Ltd., Bangalore	08.06.2016	1
34	Honeywell Technology Solutions Lab. Pvt. Ltd., Madurai	16.11.2011	2
35	Inductotherm (India) Pvt. Ltd., Ahemdabad	25.05.2012	1
36	ISRO Inertial Systems Unit, Trivandrum	02.09.2011	2
	ISRO Inertial Systems Unit, Trivandrum	25.10.2012	2
	ISRO Inertial Systems Unit, Trivandrum	22.11.2013	4
	ISRO Inertial Systems Unit, Trivandrum	15.04.2013	2
	ISRO Inertial Systems Unit, Trivandrum	20.01.2014	2
	ISRO Inertial Systems Unit, Trivandrum	05.02.2015	1
	ISRO Inertial Systems Unit, Trivandrum	03.11.2016	1
	ISRO Inertial Systems Unit, Trivandrum	29.11.2016	1
37	ISRO Satellite Centre, Bangalore	14.09.2013	1
	ISRO Satellite Centre, Bangalore	04.09.2015	1
	ISRO Satellite Centre, Bangalore	05.05.2016	1
38	ITI Ltd., Palakkad	26.10.2013	4
	ITI Ltd., Palakkad	01.04.2011	2
39	Jay Cee & Company, New Delhi	23.08.2017	1
40	JNS Instruments Limited, Gurgaon	25.01.2017	1
	JNS Instruments Limited, Gurgaon	17.03.2017	2
41	Kent Ro System Ltd., Roorkee	03.04.2014	1
	Kent Ro System Ltd., Roorkee	11.12.2013	1
	Kent Ro System Ltd., Roorkee	06.05.2014	1
42	KELTRON, Thiruvananthapuram	06.10.2017	15
43	Landis Gyr Ltd., Kolkata	13.10.2014	1
44	Larsen & Turbo Ltd., Mysore	13.03.2013	5
	Larsen & Turbo Ltd., Mysore	04.04.2012	2
45	Larsen & Turbo Ltd., Mumbai	05.07.2011	2
46	Larsen & Turbo Ltd., Bangalore	23.10.2015	2
	Larsen & Turbo Ltd., Bangalore	21.01.2016	1
47	L&T Technology Services Ltd., Bangalore	16.09.2017	1
48	Lupin Ltd., Pune	24.10.2014	1

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49	Luwa India Pvt. Ltd., Bangalore	24.08.2011	1
50	Mediatek India Technologies Pvt. Ltd., Noida	18.08.2017	1
51	Mersen India Private Limited, Bangalore	13.01.2017	1
	Mersen India Private Limited, Bangalore	28.07.2017	3
	Mersen India Private Limited, Bangalore	15.11.2017	1
52	Motherson Sumi System Limited., Noida	27.01.2017	1
53	Microchip Technology India Pvt. Ltd., Chennai	06.02.2014	1
54	Molex India Pvt. Ltd., Bangalore	15.09.2015	12
	Molex India Pvt. Ltd., Bangalore	27.03.2017	2
	Molex India Pvt. Ltd., Bangalore	21.08.2017	1
55	Mr. Bhatia, Mumbai	17.05.2016	1
56	NR Oils, Halol, Gujarat	28.09.2016	1
57	National Atmospheric Research Laboratory, Godanki	24.02.2016	1
58	Nuclear Power Corporation of India Ltd.	24.10.2014	2
59	Payal Mechanical & Engineering Works, Chandigarh	26.03.2013	6
	Payal Mechanical & Engineering Works, Chandigarh	03.08.2012	1
	Payal Mechanical & Engineering Works, Chandigarh	15.10.2012	9
	Payal Mechanical & Engineering Works, Chandigarh	21.11.2012	10
60	PVR Control, Mumbai	13.10.2017	1
61	Rajshree Electro Systems, Thane	16.07.2011	2
	Rajshree Electro Systems, Thane	13.05.2013	1
	Rajshree Electro Systems, Thane	14.03.2013	5
	Rajshree Electro Systems, Thane	13.02.2013	2
	Rajshree Electro Systems, Thane	06.10.2014	1
	Rajshree Electro Systems, Thane	08.02.2017	1
62	Rangsons Electronics Pvt. Ltd., Mysore	30.10.2012	6
	Rangsons Electronics Pvt. Ltd., Mysore	05.12.2012	6
	Rangsons Electronics Pvt. Ltd., Mysore	06.03.2013	6
	Rangsons Electronics Pvt. Ltd., Mysore	03.05.2013	1
	Rangsons Electronics Pvt. Ltd., Mysore	26.11.2014	1
	Rangsons Electronics Pvt. Ltd., Mysore	26.08.2016	6
	Rangsons Electronics Pvt. Ltd., Mysore	24.01.2017	1
63	Research Centre Imarat (RCI), Hyderabad	20.12.2013	10
64	Rieter India Pvt. Ltd., Coimbatore	28.07.2011	1
65	Robert Boss Engg. And Business Solutions Pvt. Ltd., Bangalore	09.11.2016	1
	Robert Boss Engg. And Business Solutions Pvt. Ltd., Bangalore	18.11.2016	1
66	Sameer, Chennai	22.03.2013	2
67	Schneider Electronic India Pvt. Ltd., Hyderabad	21.01.2016	4
68	Semi-Conductor Laboratory, Mohali	22.03.2017	4
69	Semikron Electronics Pvt. Ltd., Navi Mumbai	02.05.2011	2
70	Shivalik Bimetal Controls Limited, Solan	06.04.2016	1
	Shivalik Bimetal Controls Limited, Solan	05.11.2016	1
	Shivalik Bimetal Controls Limited, Solan	02.02.2017	1
	Shivalik Bimetal Controls Limited, Solan (Acidic Type)	20.03.2017	1
71	Siemens Ltd., Aurangabad	22.09.2017	1

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72	Sigma Microsystems Pvt. Ltd.	20.03.2015	1
	Sigma Freudenberg NOK Pvt. Ltd., Basma/Mohali	15.07.2015	2
73	SMC Pneumatic (India) Pvt. Ltd., Bangalore	09.03.2017	1
74	Spectrum Infotech Private Limited, Bangalore	07.02.2017	2
75	Synergy Enterprises, Chandigarh	16.09.2014	1
	Synergy Enterprises, Chandigarh	08.12.2014	1
	Synergy Enterprises, Chandigarh	28.08.2014	21
	Synergy Enterprises, Chandigarh	16.01.2012	1
76	Space Application Centre, Ahmedabad	06.05.2014	3
77	SVS Industries	24.04.2014	1
78	Tata Power Company Limited, Bangalore	09.01.2017	1
79	TE Connectivita India Pvt. Ltd., Bangalore	04.05.2016	1
80	Texas Instrumets (I) Pvt. Ltd., Bangalore	21.11.2012	1
81	Terminal Ballstics Research Laboratory, Chandigarh	26.04.2014	3
82	The Aluminium industries Ltd., Trivandrum	21.08.2017	1
	The Aluminium industries Ltd., Trivandrum	29.11.2017	2
83	Titan Industries Ltd., Hosur	22.01.2014	1
84	Titan Tyrecare Products Ltd., Coimbatore	24.04.2013	1
85	Varroc Engg. Pvt. Ltd., Aurangabad	11.01.2016	1
	Varroc Engg. Pvt. Ltd., Aurangabad	08.02.2016	5
86	Venimadhav Moolchand Suppliers, Kanpur	23.08.2017	1
87	Vikram Sarabhai Space Centre, Thiruvanthapuram	21.03.2010	2
	Vikram Sarabhai Space Centre, Thiruvanthapuram	26.05.2010	3
	Vikram Sarabhai Space Centre, Thiruvanthapuram	16.09.2010	2
	Vikram Sarabhai Space Centre, Thiruvanthapuram	07.10.2010	3
	Vikram Sarabhai Space Centre, Thiruvanthapuram	08.02.2011	1
	Vikram Sarabhai Space Centre, Thiruvanthapuram	07.03.2011	2
	Vikram Sarabhai Space Centre, Thiruvanthapuram	27.06.2012	2
	Vikram Sarabhai Space Centre, Thiruvanthapuram	02/12.01.2013	2+2
	Vikram Sarabhai Space Centre, Thiruvanthapuram	24.01.2013	1
	Vikram Sarabhai Space Centre, Thiruvanthapuram	05.04.2013	3
	Vikram Sarabhai Space Centre, Thiruvanthapuram	07.09.2013	4
	Vikram Sarabhai Space Centre, Thiruvanthapuram	12/17.09.2013	3+5
	Vikram Sarabhai Space Centre, Thiruvanthapuram	11.12.2013	1
	Vikram Sarabhai Space Centre, Thiruvanthapuram	04.02.2014	5
	Vikram Sarabhai Space Centre, Thiruvanthapuram	14.07.2015	1
	Vikram Sarabhai Space Centre, Thiruvanthapuram	22.08.2015	4
	Vikram Sarabhai Space Centre, Thiruvanthapuram	06.04.2017	1
	Vikram Sarabhai Space Centre, Thiruvanthapuram	17.07.2017	2
	Vikram Sarabhai Space Centre, Thiruvanthapuram	14.11.2017	1
88	Zones Corporate Solution Pvt. Ltd.	20.12.2014	1

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