

bala-wa[®]-5112

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

**α[®] AGNI CONTROLS
CHENNAI**



MANUFACTURER & TURNKEY SOLUTION

PROVIDER

IN

FIRE PROTECTION

ABOUT OURSELVES

AGNI CONTROLS CHENNAI located at Chennai, Southern Part of India, one of the Metropolitan Cities.

Initial business during the 1985 involved in manufacturing Fire Alarm Control Panels & allied products.

As part of business expansion, **Agni Controls** specialized in Fire Protection Systems such as Gas Based Fire Extinguishing Systems, Fire Alarm Systems and water spray and Mist system.

Agni Controls has many reputed customers in India, Europe and Asia Pacific Region.

BALAWA AGNI CONTROLS PVT LTD,

Formed to expand business scope by gradually transferring technology, manufacturing and installation facilities of proprietorship company of Agni Controls.

ABOUT OURSELVES - KEY PERSONS



D. BALACHANDRAN
Proprietor & CEO

- ✓ Mechanical Graduate Engineer
- ✓ 30 years experience in Fire Protection System.
- ✓ Founder president of FSAI (Fire & Safety Association of India)
- ✓ Representing as manufacturer in BIS – CED 22 Fire Fighting Section committee.
- ✓ Key Responsibility -
 - ✓ Administration, R&D & QC



ARUNKUMAR BALACHANDRAN,
DIRECTOR

- ✓ Instrumentation Graduate Engineer
- ✓ 15 years' experience in Specialised Fire protection system
- ✓ Member in NFPA (National Fire Protection & Association), FSAI (Fire & Security Association of India) and FPAI (Fire Protection Association of India), CII Panel member for MSME Panel.
- ✓ Key Responsibility –
 - ✓ Preliminary & Detailed Engineering, Tendering, Pricing & Commercial Terms



SELVAKUMAR BALACHANDRAN,
DIRECTOR

- ✓ Instrumentation Graduate Engineer
- ✓ MIFireE(UK) Graduate member in IFE-UK (Institution of Fire Engineers)
- ✓ 9 years experience in specialised Fire protection system
- ✓ Member in NFPA (National Fire Protection & Association)
- ✓ Key Responsibility -
 - ✓ Detailed Engineering, Production, Installation, Testing, Commissioning & After Sales Support



35 YEARS IN FIRE & SAFETY



MESSAGE

WITH OVER 35 YEARS OF EXPERIENCE,
WE CAN PROUDLY SAY THAT,
“WE ARE SOLUTION PROVIDER AND
OEM SUPPLIER IN FIRE PROTECTION FIELD,
WITH THE QUALITY, INNOVATION & SERVICE
TO THE CUSTOMERS”.

OUR MAJOR STRENGTHS ARE R&D AND
NON-COMPROMISING QUALITY STANDARDS.

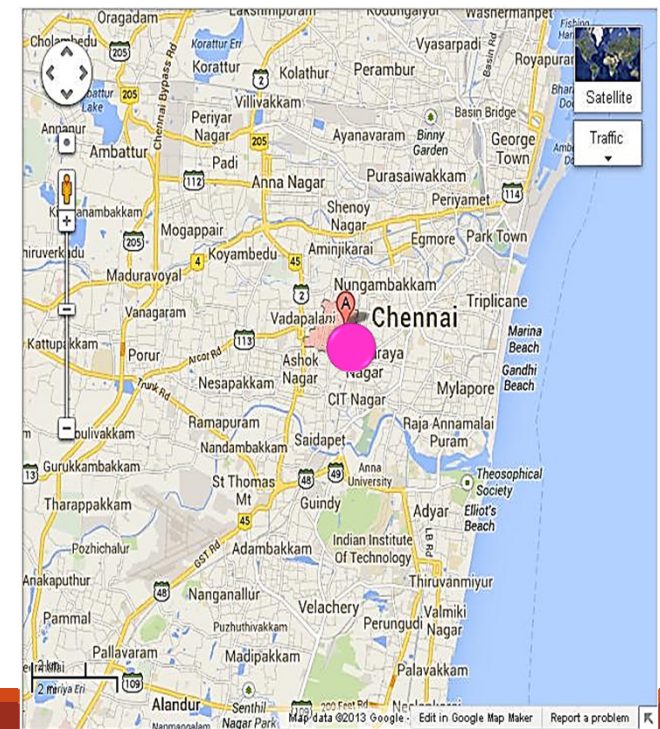
WE DESIGN, MANUFACTURER, TEST, ERECT &
COMMISSION SYSTEM & PRODUCTS
TO MEET OUR CUSTOMER SPECIFIC NEEDS IN
FIRE DETECTION AND EXTINGUISHING FIELD.

- D. BALACHANDRAN

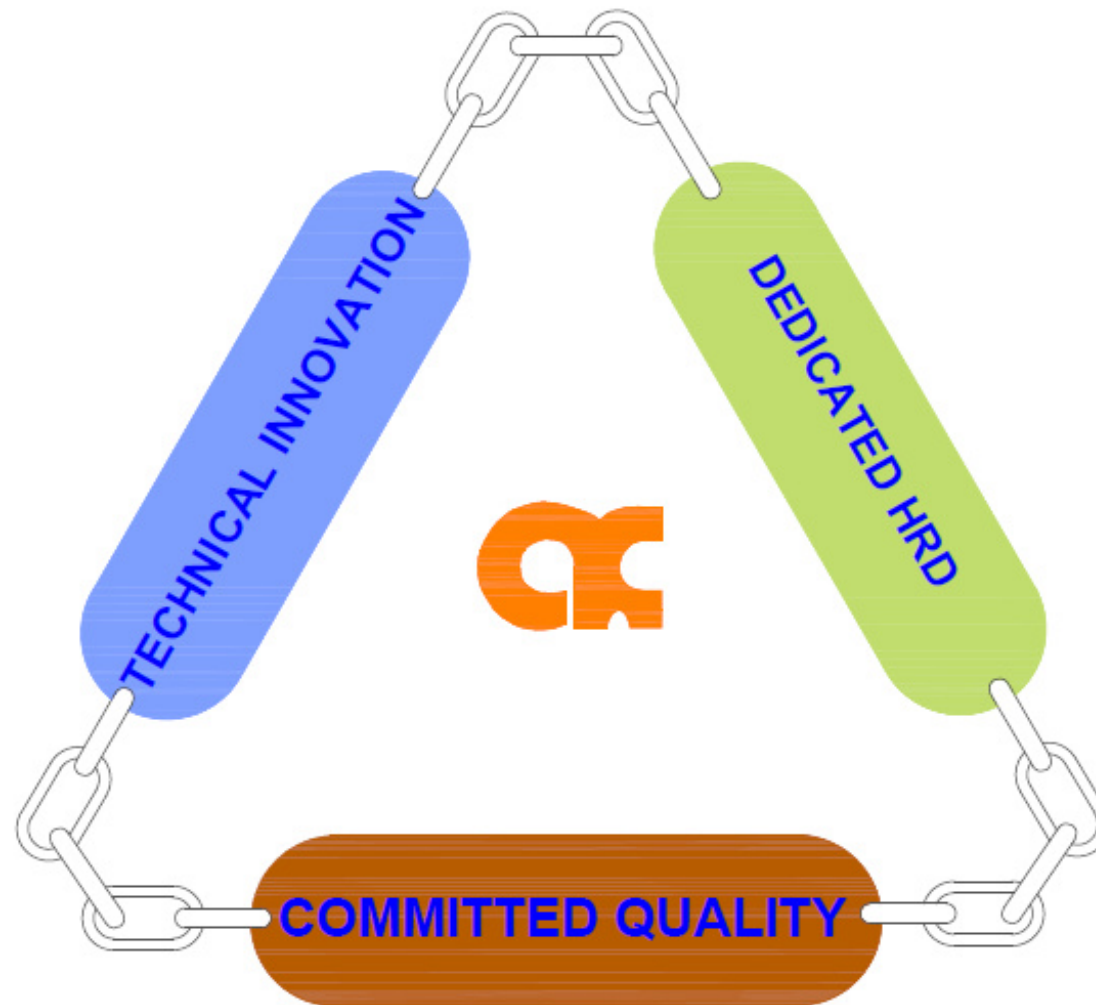
COMPANY REPRESENTATIVES



HEAD OFFICE @
Chennai and
Production Unit @
Near Porur



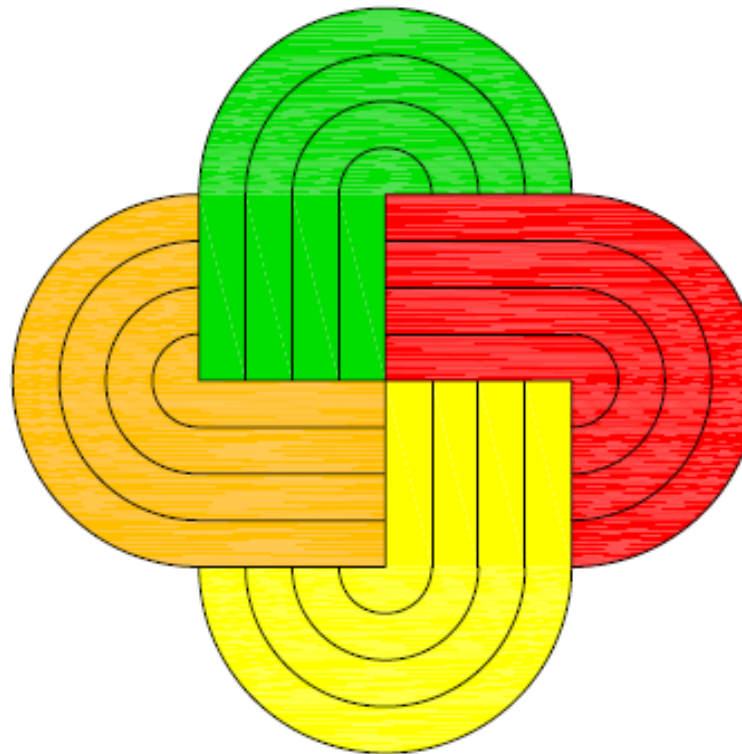
COMPANY POLICY



UNCOMPROMISED QUALITY PROCEDURES IS ENSURED IN ALL STAGES

**QC GROUP : G-I
DOCUMENTATION & RECORDING**

**QC GROUP : G-IV
FINAL QC**



**QC GROUP : G-II
INWARD QC**

**QC GROUP : G-III
IN-PROCESS QC**

AN ISO 9001:2015 CERTIFIED MANUFACTURING COMPANY



BUREAU VERITAS
Certification

AGNI CONTROLS

 **AGNI CONTROLS**
CHENNAI

HEAD OFFICE & UNIT 1: NO.1, 6TH STREET, DR. SUBBARAYAN NAGAR, KODAMBAKKAM, CHENNAI – 600 024, TAMIL NADU, INDIA.

This is a multi-site certificate, additional site details are listed in the appendix to this certificate

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standard detailed below.

Standard

ISO 9001:2015

Scope of certification

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION AND SERVICING OF FIRE PROTECTION SYSTEMS - GAS BASED FIRE EXTINGUISHING SYSTEMS LIKE CO₂, INERT, HFC227EA, OTHER CLEAN AGENT SYSTEM, WATER BASED EXTINGUISHING SYSTEMS INCLUDE WATER MIST SYSTEMS, FIRE DETECTION AND ALARM SYSTEMS

Original cycle start date: **18 August 2006**
 Expiry date of previous cycle: **17 August 2018**
 Recertification Audit date: **21 May 2018**
 Recertification cycle start date: **24 June 2018**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **17 August 2021**

Certificate No. **IND18.7391U/Q** Version: **1** Revision date: **24 June 2018**



Signed on behalf of BVCH SAS UK Branch
Ramesh KOREGAVE
Director, CERTIFICATION
South Asia Region



0008

Certification body address: 5th Floor, 66 Prescott Street, London, E1 6HG, United Kingdom.
 Local office: Bureau Veritas (India) Private Limited (Certification Business), 72 Business Park, Marol Industrial Area, MIDC Cross Road "C", Andheri (East), Mumbai – 400 093, India.

Pg 1 of 2



BUREAU VERITAS
Certification

Appendix to the certification

AGNI CONTROLS

 **AGNI CONTROLS**
CHENNAI

Standard

ISO 9001:2015

SITE	ADDRESS	SCOPE
AGNI CONTROLS (HO & UNIT1)	NO.1, 6 TH STREET, DR. SUBBARAYAN NAGAR, KODAMBAKKAM, CHENNAI – 600 024, TAMIL NADU, INDIA.	MARKETING & SALES, DESIGN & PLANNING, PURCHASE AND HUMAN RESOURCES
AGNI CONTROLS (UNIT2)	2/235, KUNDRATHUR HIGH ROAD, GERUAMBAKKAM, CHENNAI – 600 122, TAMIL NADU, INDIA.	DESIGN, MANUFACTURE, SUPPLY, INSTALLATION AND SERVICING OF FIRE PROTECTION SYSTEMS - GAS BASED FIRE EXTINGUISHING SYSTEMS LIKE CO ₂ , INERT, HFC227EA, OTHER CLEAN AGENT SYSTEM, WATER BASED EXTINGUISHING SYSTEMS INCLUDE WATER MIST SYSTEMS, FIRE DETECTION AND ALARM SYSTEMS

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Signed on behalf of BVCH SAS – UK Branch
Ramesh KOREGAVE
Director, CERTIFICATION
South Asia Region

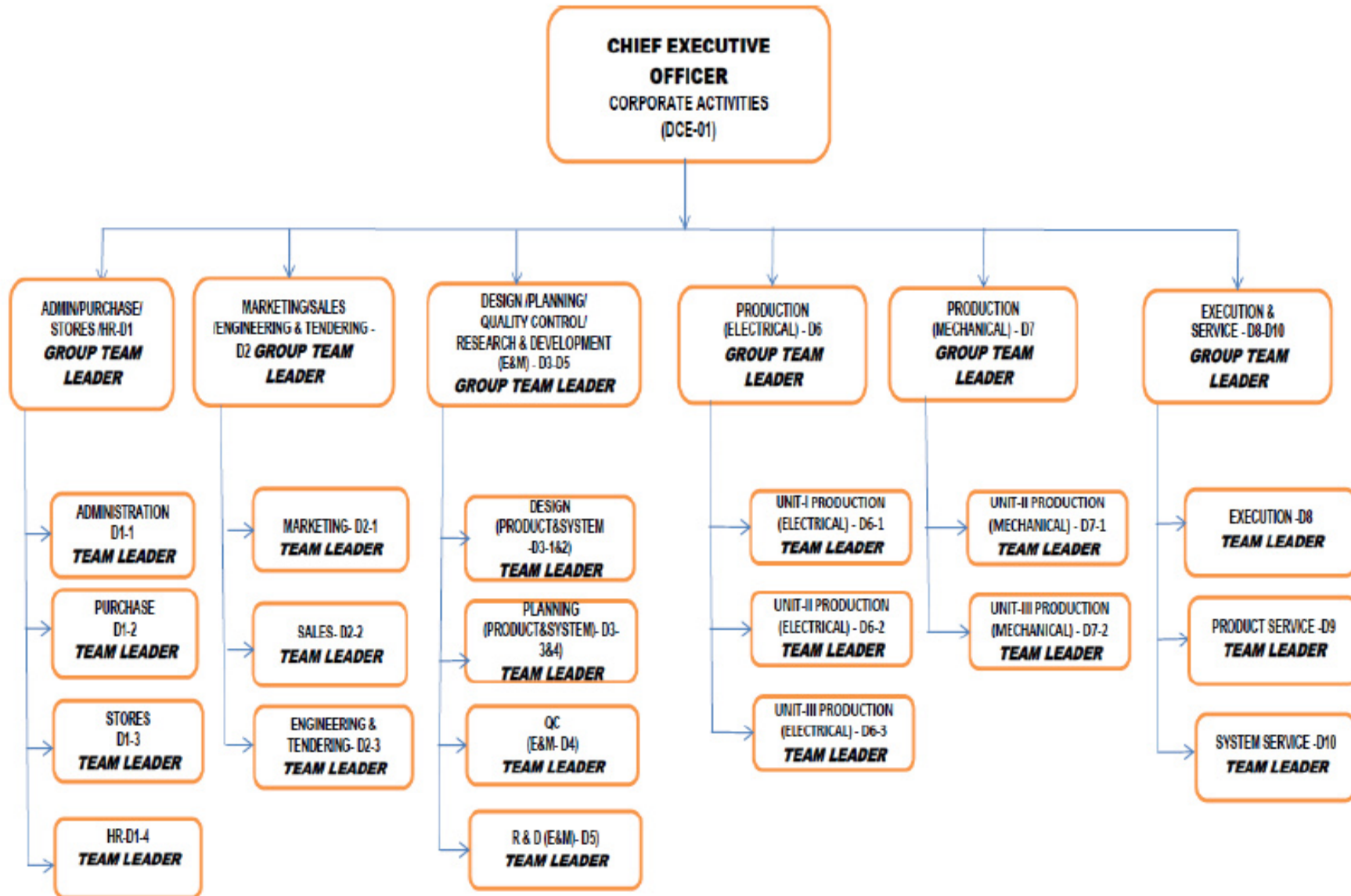


0008

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ORGANIZATION CHART



OVERVIEW ON M/S AGNI CONTROLS



Organization is supported with Dedicated R&D division, Discharge test facility, Batch-wise Production areas, In-house special design capabilities, advanced testing equipment, Stringent Quality Control Division.

BRANDS

***FULLY INTEGRATED & TESTED CO2 GAS
EXTINGUISHING BANK ASSEMBLY***

bala-wa[®]

***FULLY INTEGRATED & TESTED FK-5-1-12
EXTINGUISHING BANK ASSEMBLY***

bala-wa[®]-5112
CLEAN AGENT SUPPRESSION SYSTEM

***SPECIAL APPLICATION SPARK/HEAT/
FLAME DETECTORS***

fladet[®] SERIES...

***DETECT EXTINGUISH FIRE AT
ORIGIN SYSTEMS***

Defao[®] SERIES...

***FULLY INTEGRATED & TESTED INERT GAS
EXTINGUISHING BANK ASSEMBLY***

bala-wa[®]-100 / 541

***ENGINEERED HIGH / LOW PRESSURE WATER MIST
FIRE SUPPRESSION SYSTEM***

bala-wa-mist[®]

bala-wa-5112[®]

FK-5-1-12

GAS

FIRE SUPPRESSION SYSTEM



INTRODUCTION

- FK 5-1-12 is a fluoro ketone chemical used to extinguish most type of fires, including flammable liquid hazards and electrical equipment fires.
- FK 5-1-12 extinguishes fire by chemically reacting with the fire
- It is stored as a liquid and is pressurized with N₂ for discharging purpose.
- FK 5-1-12 is a colorless, odorless and electrically non-conducting chemical.

INTRODUCTION (Cont)

- **FK-5-1-12 system require less number of cylinder & hardwares for protecting risk area when compared with CO2 & Inert.**
- **Cylinder storage pressure for FK-5-1-12 is 25 bar or 42 bar.**

STANDARDS

➤ NFPA – 2001 : 2018

Standard on Clean Agent Fire Extinguishing Systems

APPLICATIONS

FK5112 AGENT IS RECOMMENDED TO USE IN THE FOLLOWING AREAS,

UPS Rooms

Control Rooms

Communication centers

Data centers & Computers

Electrical Cabinets

Electrical Switchgear

**Electronic Data Processing
centres**

- **Machinery Protection**
- **Flammable Liquid Stores**
- **Transformer and Switch rooms**
- **Storage Rooms**
- **Telecommunication Equipment**
- **Subfloors & other concealed spaces**
- **Libraries**

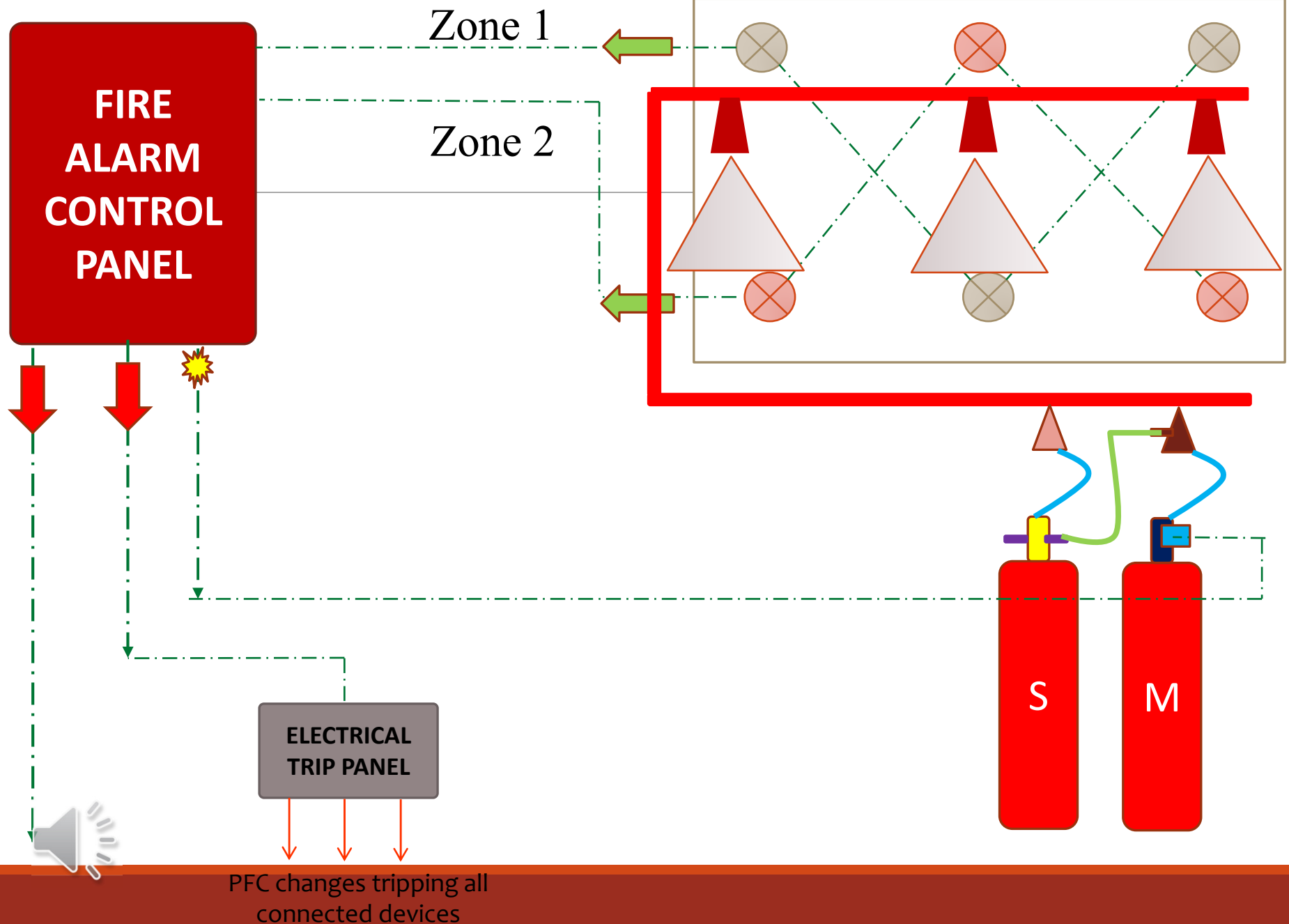
FIXED INSTALLATION FK 5-1-12 FIRE SUPPRESSION SYSTEMS

CLEAN AGENT FOR SUPPRESSION SYSTEMS AT DIFFERENT PRESSURES,

1. 600 PSI (42 BAR)
2. 360 PSI (25 BAR)
3. 200 PSI (15 BAR)

AUTOMATIC OPERATION USING DETECTORS

RISK AREA



IH901Series...

bala wa-FK-5-1-12 Gas Fire Suppression
Cylinder Bank Assembly Using Master and
Slave Cylinders

SYSTEM COMPONENTS

IH920-CT

FK-5-1-12 Cylinder Bank Cabinet Type Enclosure



SYSTEM COMPONENTS

BIH912-MV-5112
Valve with Solenoid
& Manual Actuator



BIH913-SV-5112
Valve with Pneumatic Actuator



SYSTEM COMPONENTS

BIH914
Check Valve



BIH916-XX
Discharge Hose



BIH917-XX
Actuation Hose



SYSTEM COMPONENTS

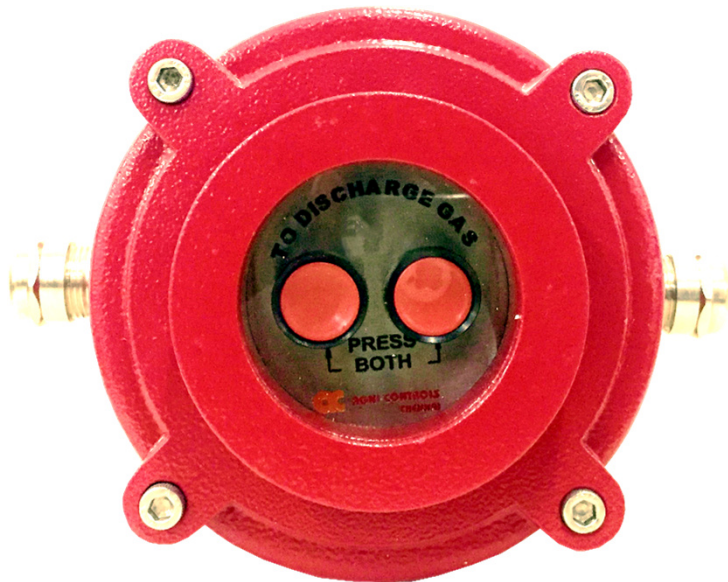
IH918 **FK-5-1-12 Discharge Nozzle**



SYSTEM COMPONENTS

IH029/1

Manual Gas Discharge Station



IH028/1

Gas Inhibit Switch

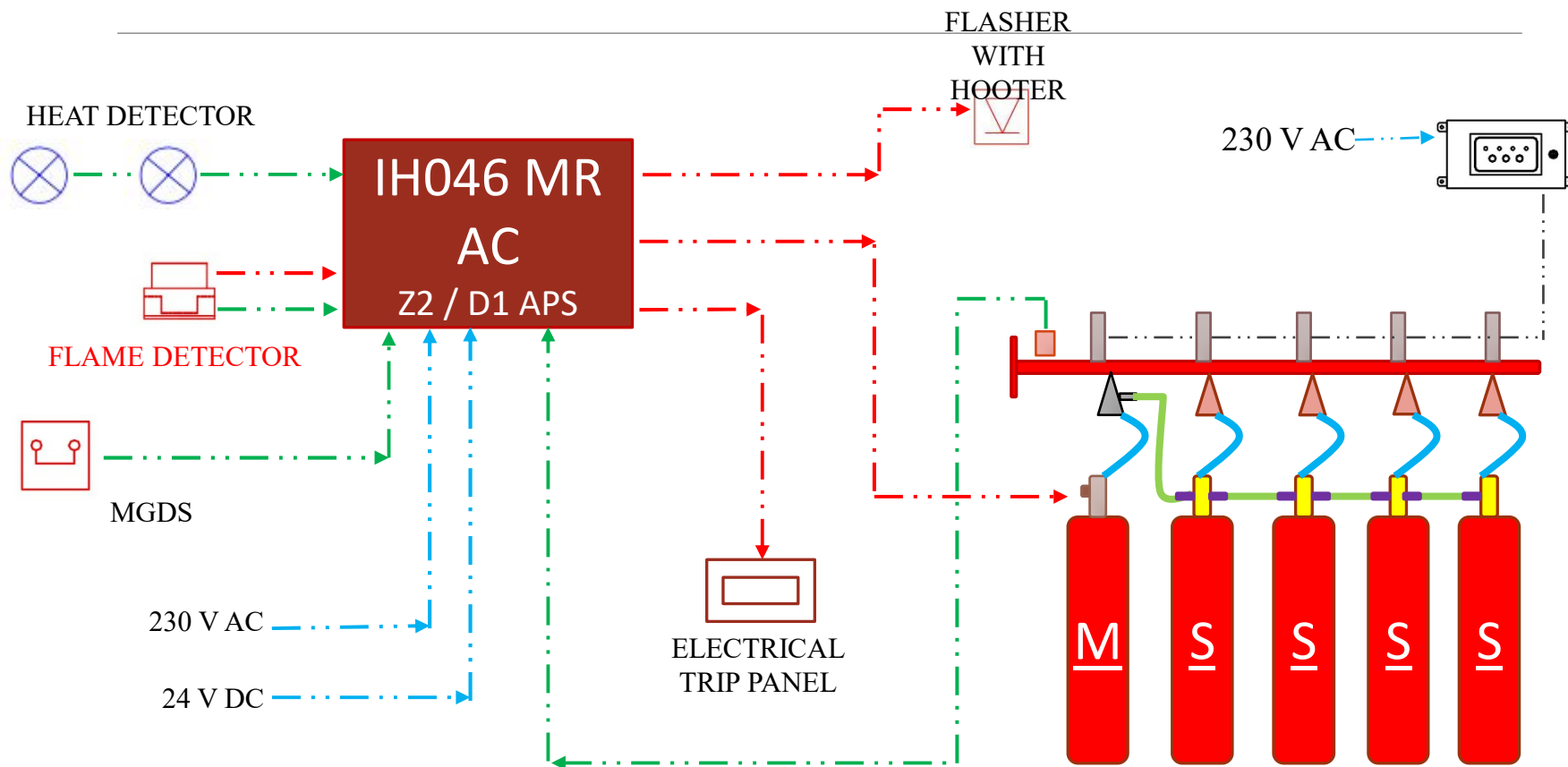


FK 5-1-12

FIRE SUPPRESSION SYSTEMS

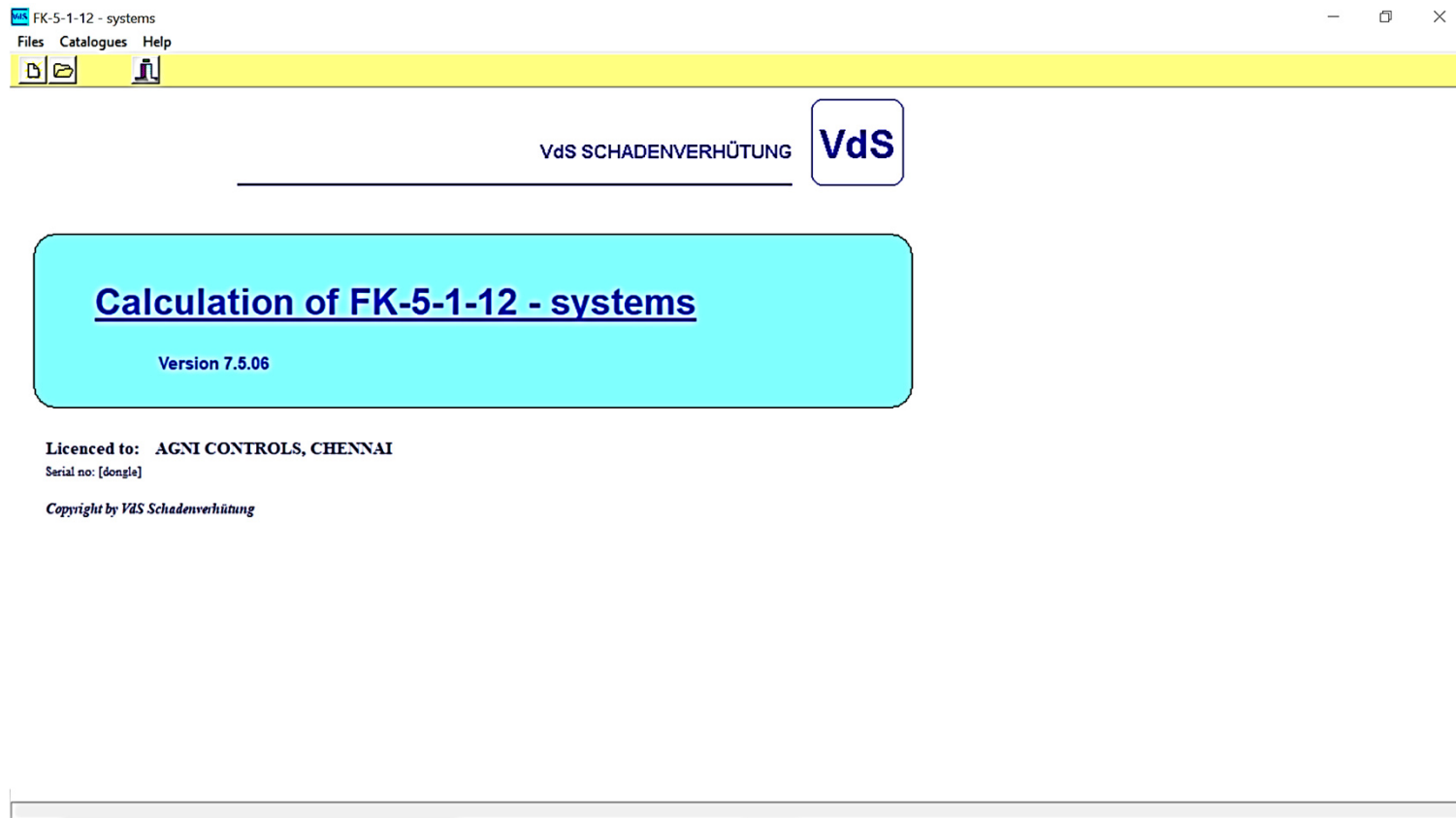
SYSTEM DISCHARGE OPERATION

FIRE SUPPRESSION SYSTEM - SCHEME

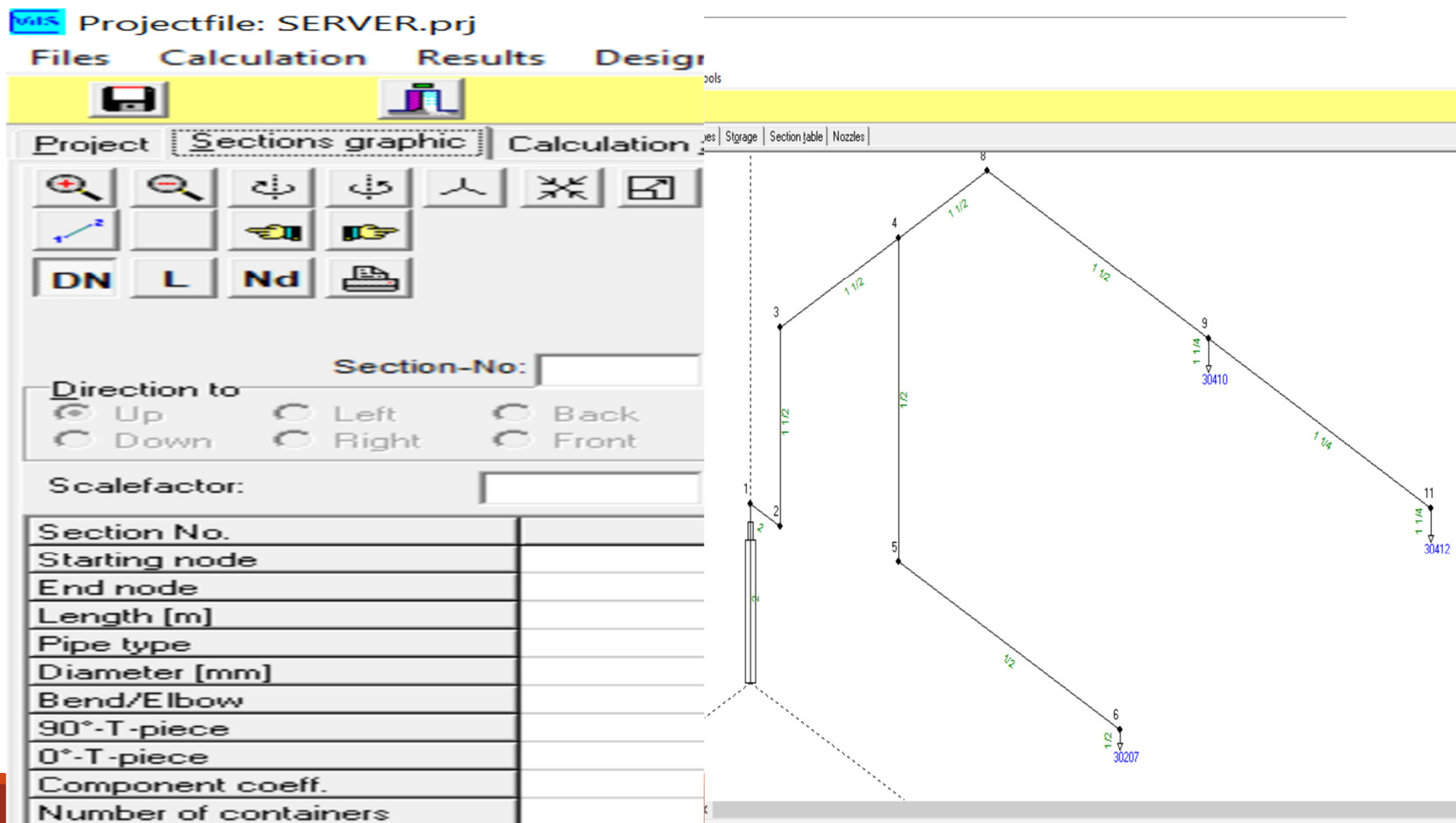


FIRE SUPPRESSION SYSTEM – DESIGN BASIS

FK-5-1-12 Design Calculations are validated using VdS Approved software

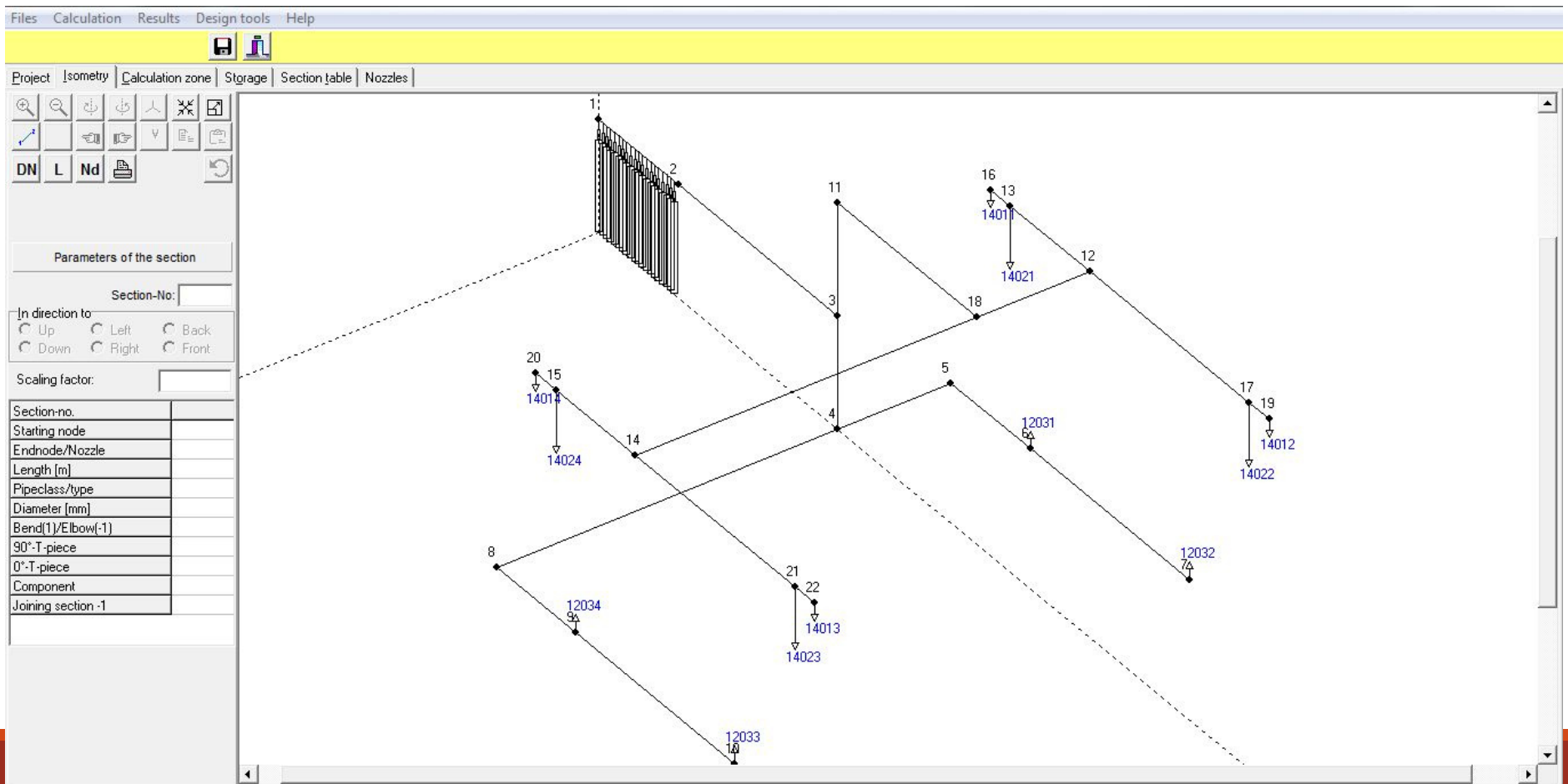


FK-5-1-12 Design Calculations are validated using VdS Approved software



FIRE SUPPRESSION SYSTEM – DESIGN BASIS

FK-5-1-12 Design Calculations are validated using VdS Approved software



FIRE SUPPRESSION SYSTEM – DESIGN BASIS

FK-5-1-12 Design Calculations are validated using VdS Approved software

 Project file: E:\VDS\FK5112\Comp\SERVER.prj

Files Calculation Results Sections



Project | Sections graphic | Calculation zones | Storage | Section table | Nozzles |

No.	Start	End	Orientation	Length [m]	Heigthdiff. [m]	Pipe type	Diameter [mm]	Bend/Elbow	90°-T	0°-T	Component	Number of container
1	0	1	up	2.000	2.000	13	52.500	0	0	0	0.000	0.000
2	1	2	right	0.500	0.000	13	52.500	-1	0	0	0.000	0.000
3	2	3	up	2.200	2.200	13	40.900	-1	0	0	0.000	0.000
4	3	4	back	2.000	0.000	13	40.900	-1	0	0	0.000	0.000
5	4	5	down	3.600	-3.600	13	15.800	0	1	0	0.000	0.000
6	5	6	right	2.500	0.000	13	15.800	-1	0	0	0.000	0.000
7	6	30207	down	0.100	-0.100	13	15.800	-1	0	0	0.000	0.000
8	4	8	back	0.600	0.000	13	40.900	0	0	1	0.000	0.000
9	8	9	right	1.500	0.000	13	40.900	-1	0	0	0.000	0.000
10	9	30410	down	0.200	-0.200	13	35.000	0	1	0	0.000	0.000
11	9	11	right	1.500	0.000	13	40.900	0	0	1	0.000	0.000
12	11	30412	down	0.200	-0.200	13	35.000	-1	0	0	0.000	0.000

INSTALLATION PHOTOS



OTHER RANGE OF FIRE SUPPRESSION SYSTEMS

**FULLY INTEGRATED & TESTED CO2 GAS
EXTINGUISHING BANK ASSEMBLY**

bala-wa[®]

FULLY INTEGRATED & TESTED INERT GAS
EXTINGUISHING BANK ASSEMBLY

bala-wa[®] - 100 / 541

**ENGINEERED HIGH / LOW PRESSURE
WATER MIST FIRE SUPPRESSION SYSTEM**

bala-wa-mist[®]

DETECT EXTINGUISH FIRE AT
ORIGIN SYSTEMS

Defao[®] SERIES...

bala-wa[®]-5112

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

bala-wa[®] SERIES...
CO2 GAS FIRE SUPPRESSION SYSTEM BANK

**CABINET
ENCLOSURE
ASSEMBLY TYPE**



bala-wa[®]-5112

bala-wa[®] SERIES...

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

CO2 GAS FIRE SUPPRESSION SYSTEM BANK

**TUBULAR FRAME
ASSEMBLY TYPE**



**FIXED INSTALLATION HIGH PRESSURE CO2 SYSTEM
FULLY ASSEMBLED INTEGRATED & TESTED
CYLINDER BANK IN AIR CONDITIONED CONTAINER**



MANUFACTURER : M/S. AGNI CONTROLS, CHENNAI

CUSTOMER : M/S. BHEL, HYDERABAD - INDIA.

END USER : M/S. BPCL, COCHIN - INDIA.

PROJECT : GAS TURBINE PROTECTION - CO2 FIRE EXTINGUISHING SYSTEM

DETAILS:

1. CONTAINER - Size 6.0 X 1.4 X 2.8 Mtr
Installed 24 X 45 Kgs CO₂ GAS CYLINDER

QTY - 3 NOS.

2. CONTAINER - Size 4.0 X 1.4 X 2.8 Mtr
Installed 18 X 45 Kgs CO₂ GAS CYLINDER

QTY - 3 NOS.

SPECIAL REMARKS: FULLY INTEGRATED, WIRED, INSULATED, AIR CONDITIONED
CONTAINER SUITABLE FOR SEMI OUTDOOR AND HIGH
AMBIENT TEMPERATURE PLACES.

TRADE NAME : **bala-wa[®]**

bala-wa[®]-5112

bala-wa[®]-100 / 541 / 55 SERIES...

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

INERT GAS FIRE SUPPRESSION SYSTEM BANK

**CABINET
ENCLOSURE
ASSEMBLY TYPE**

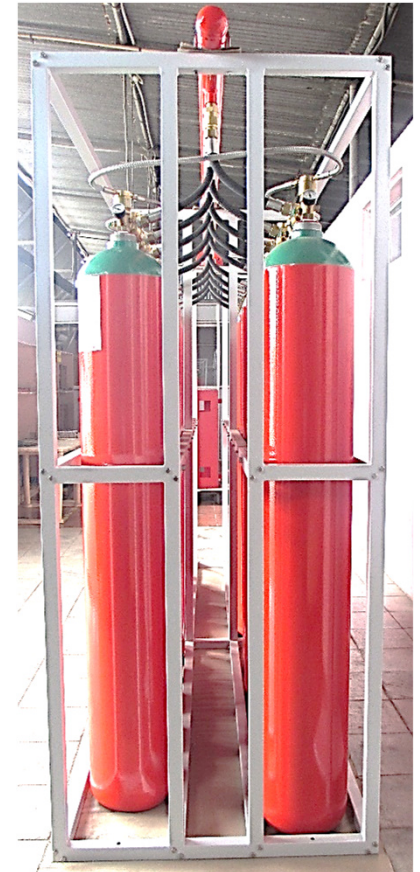


bala-wa[®]-5112

bala-wa[®]-100 / 541 / 55 SERIES...

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

INERT GAS FIRE SUPPRESSION SYSTEM BANK



bala-wa[®]-5112

bala-wa[®]-100 / 541 / 55 SERIES...

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

INERT GAS FIRE SUPPRESSION SYSTEM BANK



FRAME ASSEMBLY IG541 INERT CYLINDER BANK

bala-wa[®]-5112

bala-wa[®]-100 / 541 / 55 SERIES...

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

INERT GAS FIRE SUPPRESSION SYSTEM BANK

**TUBULAR FRAME
ASSEMBLY TYPE**



LOCALISE THE FIRE

Defao[®] SERIES...

AUTOMATIC DETECTION & EXTINGUISH SYSTEM

**DIRECT
SYSTEM**



**IN
DIRECT
SYSTEM**

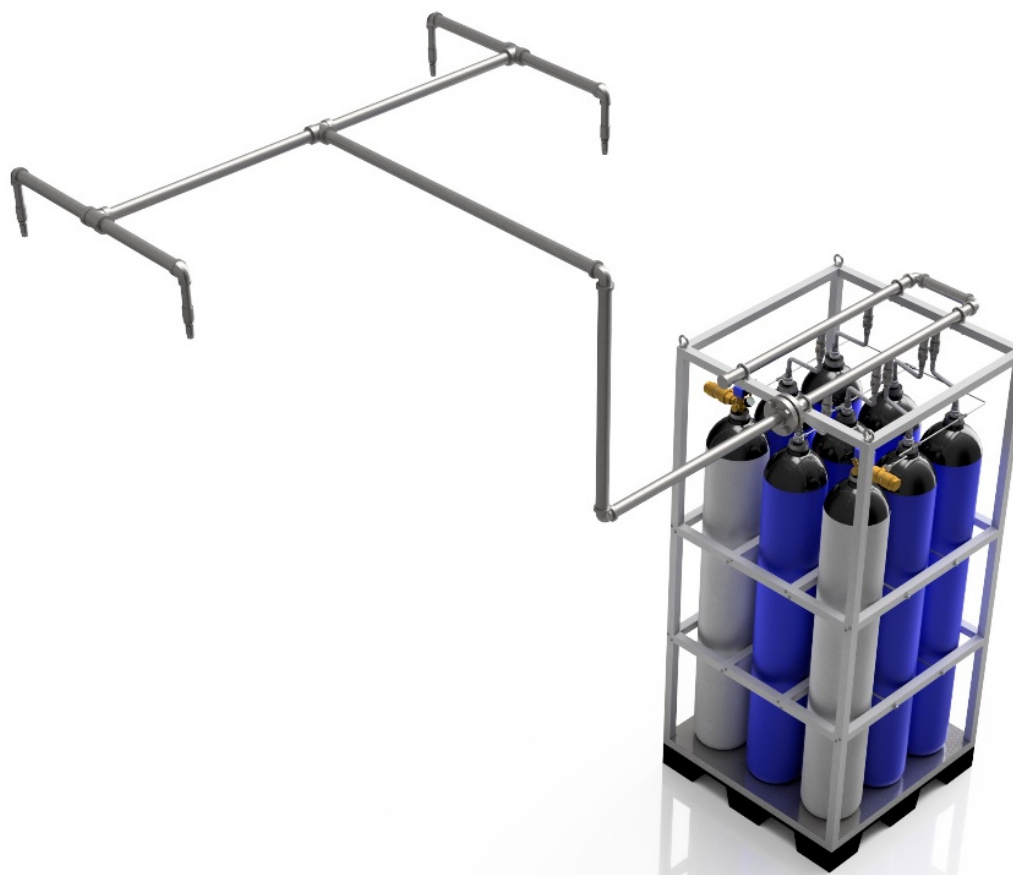


bala-wa[®]-5112

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

IH950 **bala-wa-mist**[®] SERIES...

**ENGINEERED HIGH/LOW PRESSURE WATER MIST
FIRE SUPPRESSION SYSTEM**

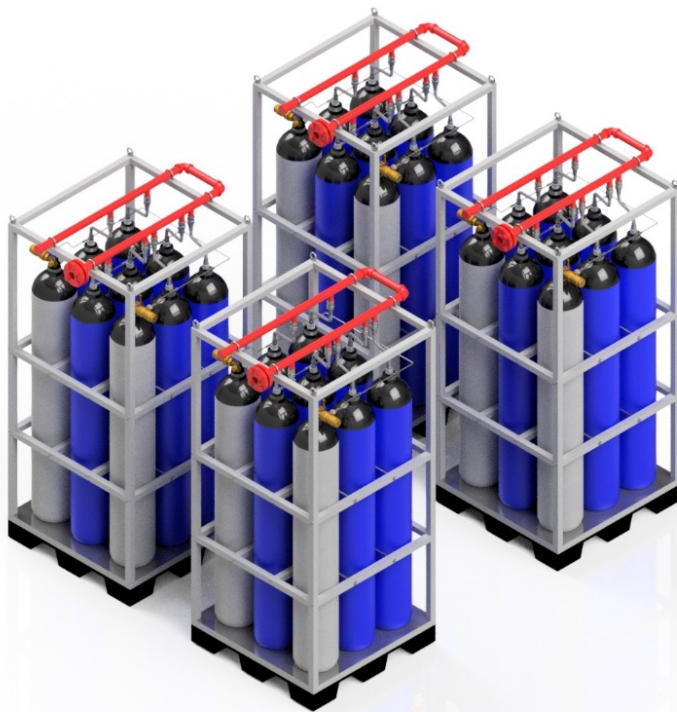


bala-wa[®]-5112

fladet[®] SERIES...
THE GLOBAL INDIAN BRAND

IH950 bala-wa-mist[®] SERIES...

**ENGINEERED HIGH / LOW PRESSURE WATER MIST
FIRE SUPPRESSION SYSTEM**



Overview on M/s Agni Controls

SOME IMPORTANT CLIENTS



Overview on M/s Agni Controls

SOME IMPORTANT CLIENTS

OIL & GAS



DULAIJAN



MANALI



IndianOil

BARAUNI



IndianOil

PARADEEP



IndianOil

DIGBOI



Overview on M/s Agni Controls

SOME IMPORTANT CLIENTS

**ROYAL
ENFIELD**

CHENNAI



HYUNDAI

CHENNAI



Hindustan Motors

CHENNAI

RENAULT NISSAN

CHENNAI

AUTOMOBILE SECTOR



Mercedes-Benz

PUNE



Hero

HARIDHWAR



ASHOK LEYLAND

HOSUR



Motherson Sumi Systems Limited

BANGALORE

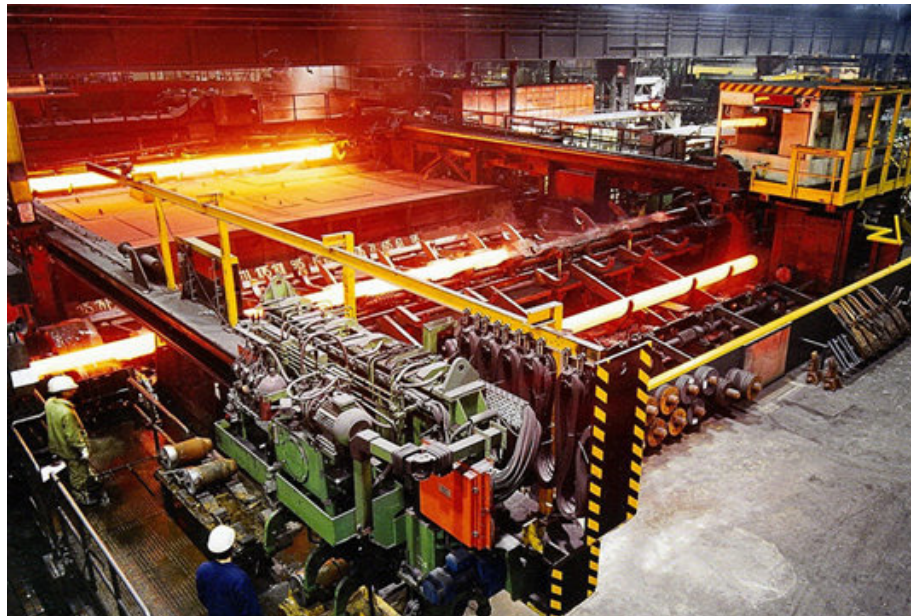


CHENNAI

Overview on M/s Agni Controls

SOME IMPORTANT CLIENTS

ENGINEERING INDUSTRIES SECTOR



Overview on M/s Agni Controls

SOME IMPORTANT CLIENTS

TEXTILE & SPINNING MILLS SECTOR



PROUD TO BE INDIAN
PRIVILEGED TO BE GLOBAL



SOME IMPORTANT CLIENTS



USA



SORIYA



Turkey



SPAIN

EXPORT & GLOBAL MARKET



ITALY



UAE



SINGAPORE



UK & CYPRUS



THAILAND



HEEBA

UAE



Safety Automation-Systems Manufacturer-Fire Fighting

ITALY

E&W Engineering

MALAYSIA



United Arab Emirates

UAE



AGNI CONTROLS Vs OTHERS

**HOW DOES AGNI CONTROLS DIFFER
FROM OTHER SUPPLIERS OF
FIRE EXTINGUISHING SYSTEM ?**



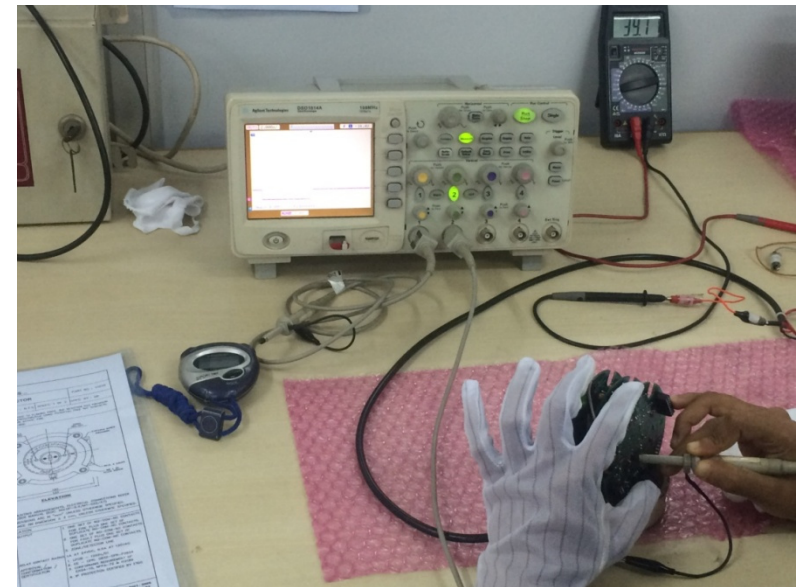
AGNI CONTROLS Vs OTHERS

AGNI CONTROLS core strength is the strong technical knowledge in both mechanical & advanced electronics.

Supported with dedicated R&D divisions

Which helps continuously updating our products to the current trend.

Most of the Contractors do not have manufacturing capability nor supported with R&D.



AGNI CONTROLS Vs OTHERS

AGNI CONTROLS directly
procures cylinder from the
manufacturer with all test
certificates & CCEO
approvals.

There are occasion, re-
conditioned cylinders are
offered for new system

EVEREST KANTO CYLINDER LIMITED

Manufacturers
of high pressure
Seamless
Gas Cylinders

Registered Office
204, Raheja Centre,
Free Press Journal Marg,
214, Nariman Point,
Mumbai 400 021.

Tel : 0991-22-3026 8300 / 81

Fax : 022-2287 8718 / 20

Website : www.everestkanto.com

Email : everestkanto@gmail.com



Ref.. No. EKC/T/1172/08-09

Date : March 28, 2009

CERTIFICATE FOR GRIT BLASTING

REFERENCE: OUR INVOICE NO. 01172 DT. 28.03.2009

It is hereby confirmed that the outer surface of the cylinders duly
grit blasted to SA 21/2 cylinders supplied to **M/s. Agni Controls,**
No.1, 6th Street, Dr. Subbarayan Nagar, Kodambakkam Chennai
600 024 against their Invoice No. 01172 dated 28.03.2009, P.O.
No. AC/9.3.1/402/08-09 dated 21.03.2009 for 68.0 ltrs. water
capacity – 100 Nos. Carbon-Di-Oxide Gas Cylinders.

Grit used for blasting - SA -21/2

Cylinder Serial Nos.:

268671- 2255, 2256, 2259-2261, 2266, 2279, 2287, 2293, 2296,
2299, 2304 2308, 2311, 2317, 2321, 2322, 2345, 2350, 2356, 2357,
2359, 2399, 2412, 2421, 2425, 2432, 2442, 2452, 2453, 2457, 2474,
2479, 2480, 2482, 2484, 2485, 2490, 2492, 2498, 2499, 2501,
2502, 2511, 2414-2516, 2519, 2525, 2526, 2527, 2541, 2546,
2550, 2559, 2567-2569, 2576, 2580, 2585, 2588, 2590, 2592,
2594, 2595, 2599, 2600, 2601, 2611, 2620-2622, 2629, 2630,
2633, 2638, 2643, 2653, 2656, 2658, 2659, 2665, 2666, 2670,
2671, 2677, 2680, 2682, 2690, 2916, 2931, 2939, 2941, & 2952-
2957

Quantity - 100 Nos.,

FOR EVEREST KANTO CYLINDER LTD.


A. RAJNEESH
GENERAL MANAGER



AGNI CONTROLS Vs OTHERS

AGNI CONTROLS directly
 procures cylinder from the
 manufacturer with all test
 certificates & CCEO
 approvals.

There are occasion, re-
 conditioned cylinders are
 offered for new system

 **RAMA CYLINDERS PRIVATE LIMITED.**
 Survey No. 334-P2 & 335, Vill : Bhimasar, Tal : Anjar, Dist : Kutch, State : Gujarat, India.

ACCEPTANCE CERTIFICATE
 Certificate No. : AEG / 014/ 13

Acceptance certificate for seamless steel cylinders Batch No. 014 (Dia 267.x 6.3mm x 68.0 Ltr. W.C.).
 A consignment of 202 cylinders consisting of One test batch has been inspected and tested according to
 IS 7285 (Part 2):2004.

Designation or type of gas	Sr.No.of Cylinders	Qty.
CARBON DIOXIDE (CO ₂)	AEG 1927 to AEG 2128 (Ex.Sr.No. AEG 2013 & AEG 2079)	200

Manufacturer's No. : AEG 1927 to AEG 2128 (Inclusive) Quantity Passed : 200 Nos.
 (Excluding Sr No. : AEG 2013 & AEG 2079)


TECHNICAL DATA

Water capacity, V : Minimum 68.0 litre	Nominal length : 1510 mm (Approx)
Neckring : Fitted	(without cap and without valve)
Test pressure, P _b : 334 Bar	Outside diameter, D _o : 267.0 mm
Working pressure at 15° C, P _w : 200 Bar	Minimum wall thickness, a : 6.3 mm
	Neck Thread (Spec.) : Type 4, Size 2 (as per IS 3224)
Maximum filling charge : 45.36 kg	

Drawing No. : R-SC-IND-267-200-6.3/H
 Approved vide CCEO's letter No. :G.3(42)515/V dated :24.09.2008

Colour of Body : Black with Aluminium Band
 Material : M/s. Tianjin Pipe Corporation Ltd., China/ JIS-G-3429 / 34CrMo4
 Suppliers Certificate No. : 11062213 Date 30.06.2011

Specified analysis :	C.	Si.	Mn.	P.	S.	Cr.	Mo.
Percent, Max :	0.38	0.40	1.00	0.020	0.010	1.20	0.25
Percent, Min :	0.32	0.10	0.40	-	-	0.80	0.15

Heat treatment : Quenched & Tempered
 Stamp markings :  IS 7285
 Part-2
 CM/L-7617783

RAMA CO2 34 Cr-MO4 Re 735 03/13 Q & T TW....KG
 AEG.....IS:7285-2 TP 334 FR 0.667 WC 68.0 LTR GW

Page 1 of 2

AGNI CONTROLS Vs OTHERS

AGNI CONTROLS, as a manufacturer, all the parts
of the system are identified by

PART Numbers & CODE Numbers

Which helps in Quality Assurance, Spares
Supply & Maintenance Support.

**Most of the Contractors do not have concept of
Part & Code Numbers**

AGNI CONTROLS Vs OTHERS

AGNI CONTROLS is the only manufacturer in India, providing branded FK-5112 system as a **single product** i.e., Totally assembled, Integrated, Tested & Site Fabricated cylinder bank assembly, which can be readily installed.

AGNI CONTROLS Vs OTHERS

**Other suppliers execute the FK-5-1-12 System as
site-fabricated product.**

**They supply the cylinder, hoses, pressure
switches, etc. separately,**

**They fabricate the frame, fabricate the header,
fabricate the other required parts at the site,
mostly by using locally available technical team.**

AGNI CONTROLS Vs OTHERS

AGNI CONTROLS technical Man-Power strength

Graduates Engineers - 16

Diploma Engineers - 28

(As on April 2019)

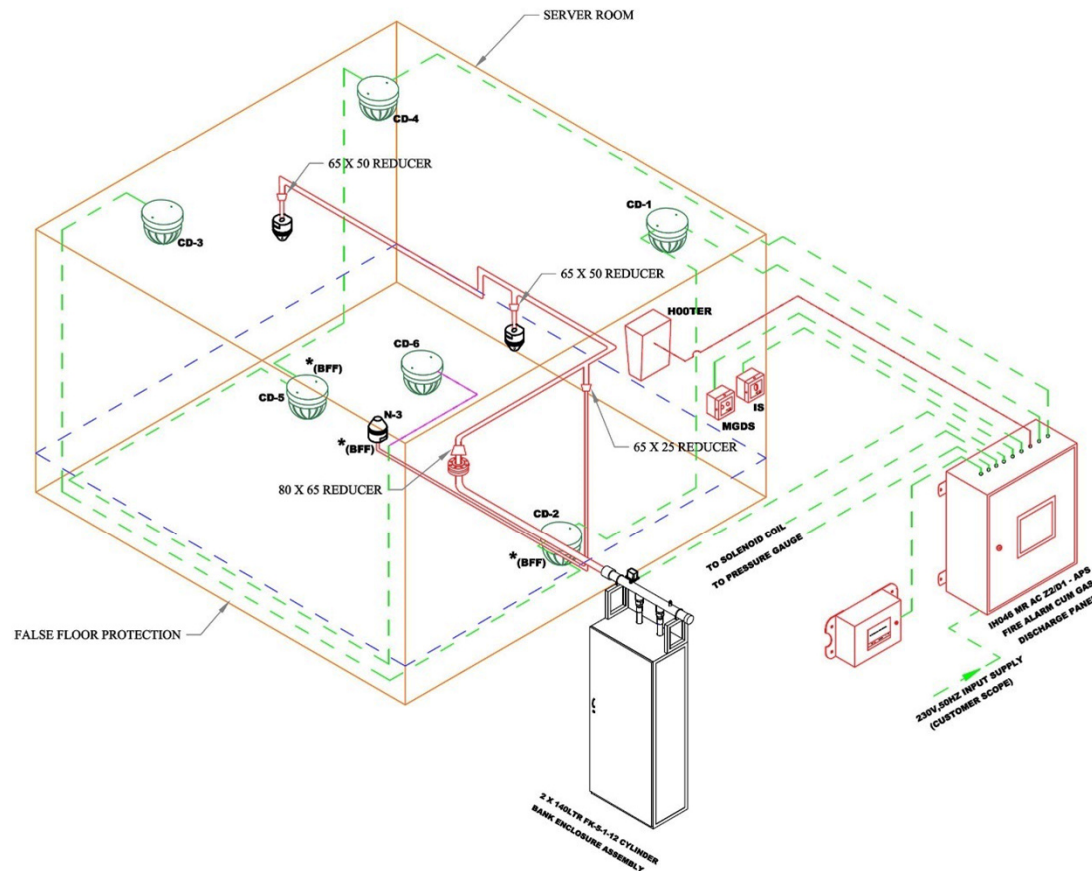
**42 Graduate and Diploma Engineers are
exclusively dedicated to GAS SUPPRESSION
SYSTEM & PRODUCTS**









AGNI CONTROLS Vs OTHERS

AGNI CONTROLS is the only company Which
provides display of complete scheme,
elaborately explaining the entire
Fire Suppression system operation.

AGNI CONTROLS is the only company Which provides display of complete scheme, elaborately explaining the entire FK-5-1-12 system operation.

TYPICAL ISOMETRIC SCHEMATIC DRAWING OF FK-5-1-12 GAS FIRE SUPPRESSION SYSTEM ALONG WITH FIRE DETECTION & ALARM SYSTEM FOR SERVER ROOM



Sl. NO.	SYMBOL	PART NO.	DESCRIPTION
01.		BH920-CT-140-25	Indra-5112 EXTINGUISHING CYLINDER BANK CABINET TYPE ENCLOSURE
02.		IH018	FK-5-1-12 DISCHARGE NOZZLE
03.		BH217-65/25-05	65 NB/25 NB C.S SEAMLESS SCH-40 PIPE
04.		BH156	CONVENTIONAL COMBINED PHOTO-ELECTRIC & FIXED TEMPERATURE DETECTOR
05.		IH029/1	MANUAL GAS DISCHARGE STATION
06.		IH147	ELECTRONIC DUAL TONE HOOTER WITH FLASHING LAMP
07.		IH028/1	INHIBIT SWITCH
08.		IH140-ETP	ELECTRICAL TRIP PANEL
09.		ES04 049	2C X 1.5 SQ.MM ARMoured PRLS CABLE

AGNI CONTROLS Vs OTHERS

AGNI CONTROLS is ISO Certified Company for manufacturing gas suppression system, and our QAP (Quality Assurance Plan) ensure proper quality of the system in all the stages.

Many Contractors do not have ISO certification for manufacturing & installing gas suppression system. QAP concept is not existing with many of the contractors.



AGNI CONTROLS Vs OTHERS

As a customer, you need not accept / permit to execute the FK-5-1-12 system as site fabricated, because:

When execution depends on local skill, it is very difficult to ensure proper integration of the system.

There are many critical instruments like solenoid connection, pneumatic actuators to ensure the proper function of the entire FK-5-1-12 system.



AGNI CONTROLS Vs OTHERS

bala-wa[®] series.. High pressure fixed installation FK-5-1-12 cylinder banks are fully pre-assembled integrated and tested for its proper operation at the factory itself.

Presently, Many Customers and consultants are strongly recommending to use factory pre-assembled and tested FK-5-1-12 cylinder bank assembly

AGNI CONTROLS Vs OTHERS

CONCLUSION :

**WE DIFFER FROM OTHERS, BECAUSE WE SUPPLY
FK-5-1-12 SYSTEM AS A PRODUCT, NOT AS A SITE
FABRICATION & SITE PROJECT.**

**THAT IS WHY, WE ARE OEM SUPPLIER FOR MANY
REPUTED COMPANIES.**



PRODUCT LIST

SL.NO	PART NO.	DESCRIPTION
01	IH901 AA-BB-CC-DD- EE	balawa-FK-5-1-12 Gas Fire Suppression Cylinder Bank Assembly using <u>Master and Slave Cylinders principle</u>
		<p>MODEL SELECTION:</p> <p>AA - Water Capacity of Cylinder (80 / 140 ltrs) BB - Number of Cylinder (1,2 , 3 , ...XX) CC - SR for Single row and DR for Dual row DD - Frame Type (FR) / Cabinet Type (CT) EE - Quantity of FK-5-1-12 in Kgs</p>
		EXAMPLE: FRAME TYPE
1.1	IH901 80 / 04 / SR / FR / 60	<p>balawa-FK-5-1-12 Gas Fire Suppression Cylinder Bank Assembly using <u>Master and Slave Cylinders principle</u></p> <p>a. 1 No. 80 litres water capacity Cylinder filled with 60kgs of FK-5-1-12 with Solenoid valve with Pressure Gauge and switch.</p> <p>b. 3 Nos. 80 litres water capacity Cylinder filled with 60kgs of FK-5-1-12 with Slave Valve with pneumatic actuator with pressure guage.</p> <p>c. 1 Set. Tubular Frame Assembly with powder coating finishing to support 4 nos.of Cylinders with manifold (header) matching flange, safety valve, non return valve, discharge hose, actuation hose,terminal boxes, non ferrous fasteners and other required accessories.</p>

PRODUCT LIST

		EXAMPLE: CABINET TYPE
		<p>balawa-FK-5-1-12 Gas Fire Suppression Cylinder Bank Assembly using <u>Master and Slave Cylinders principle</u></p>
		<p>a. 1 No. 80 litres water capacity Cylinder filled with 60kgs of FK-5-1-12 with Solenoid valve with Pressure Gauge and switch.</p>
1.2	IH901 80 / 04 / SR / CT / 60	<p>b. 3 Nos. 80 litres water capacity Cylinder filled with 60kgs of FK-5-1-12 with Slave Valve with pneumatic actuator with pressure guage.</p>
		<p>c. 1 Set. Cabinet type enclosure Assembly with powder coating finishing to support 4 nos.of Cylinders with manifold (header) matching flange, safety valve, non return valve, discharge hose, actuation hose,terminal boxes, non ferrous fastners and other required accessories.</p>

PRODUCT LIST

MODULAR TYPE SINGLE CYLINDER KIT ASSEMBLY		
02	IH910-34-XX -46/Z2/D1-AC MR	bala-wa-FK-5112 Detection & Control Extinguishing Cylinder Assembly
		a. 1 set of bala-wa-5112.. 34 ltrs Cylinder with Valve filled with <u>XX kgs</u> of FK-5-1-12, Solenoid Actuator, Discharge Hose, Check Valve and other related accessories.
		b. 2 nos of Discharge Nozzle
		c. 1 set of Cabinet type Enclosure Assembly to fix 34ltrs cylinder integrated with pressure switch
		d. Conventional Microprocessor Based 2 Zone Fire Alarm Panel with Single gas discharge module with inbuilt charger and with battery

PRODUCT LIST

MODULAR TYPE SINGLE CYLINDER KIT ASSEMBLY		
03	IH911 -34-XX-CT	bala-wa-FK-5112 Modular type Extinguishing Cylinder kit Assembly
		a. 1 set of bala-wa-5112.. 34 ltrs Cylinder with Valve filled with <u>XX kgs</u> of FK-5-1-12, Solenoid Actuator, Discharge Hose, Check Valve and other related accessories.
		b. 2 nos of Discharge Nozzle
		C . 1 set of Cabinet type Enclosure Assembly to fix 34ltrs cylinder integrated with pressure switch



**AGNI CONTROLS
CHENNAI**

Provides

Total Solution

for

any FIRE RISK

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