



Best Quality, Reliable, Services











An ISO Certified 9001: 2008 Company















Cost Effective & Quick Service



Introduction

Dear customer

We are pleased to present to you our new catalogue.

Deep automation established in 2004. Deep automation is a reputed name in the manufacturing of various type of control panel as like lubrication, water treatment industry, Construction machinery, SPM machines and other more plants panel systems.

The company is committed to produce quality products our manufacturing unit & distribution center in faridabad, sales and marketing organization, will be at your service to deliver on time quality, user friendly and competitive products, our aim to offer you the right solution at the right price. All our products and solutions offer reliable performance propose modularity, quality and sophisticated design.

We are supplying our products to chemical industries, sugar mills, hospital, engineering, steel plant, commercial, industrial building and solutions for residential etc. All these products are available in varied configurations to suit different needs of our valued customers. However we supply these world class products in bulk but also accept order in economic order quantities

Our workshop is well equipped with all requirements, tools, testing ,equipment etc. To maintain high level of quality of accuracy of jobs. We have fabricating assembling & testing of all types panels and also computer designing facility of PLC programmed and auto CAD.

Our next journey will continue to take us through innovation, identifying the next market trends, our clients' needs hence proposing you the adequate answer to the market, whilst minimizing our ecological footprint.

Best regards...

Managing director
DEEP AUTOMATION



COMPANY

PROFILE

DEEP AUTOMATION

Manufacture of

MCC, PCC, LT PANEL, AC/DC DRIVE / PLC PANEL ETC

Office:

PLOT NO.E-60, S.G.M. NAGAR, N.I.T.

FARIDABAD-121001(HARYANA) INDIA

MOB: 09873671946, 09711491405

FAX: 0129-4056729

E-Mail:automation_deep@yahoo.com

E-Mail: rakesh.rathour@yahoo.com Website: <u>www.deepautomation.in</u>

: www.deepautomation.net



□ Remarks

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COMPANY PROFILE

1. Name of Company : Deep Automation

2. Factory Address : E-60, S.G.M.Nagar, N.I.T. Faridabad, HR, India

3. Corp. Office : E-60, S.G.M.Nagar, N.I.T. Faridabad, HR, India

4. Tin No. : 06711323275

5. Shed Area : 4000 SQ. FEET

6. Open Area : 1000 SQ. FEET

7. No. of skilled employee : 10

8. Supervisors Electrical : 04

9. Supervisors Mech. : 02

10. Administrative Staff : 06

11. Mail As. : automation deep@yahoo.com

: rakesh.rathour@yahoo.com

12.WEB : www.deepautomation.in

www.deepautomation.net



Manufacturers of PLC, CONTROL PANEL DISTRIBUTION PANEL & AC/DCDRIVE PANEL Plot No. E-60, S.G.M Nagar, N.I.T. FARIDABAD-121001 (HARYANA)

Mob: 09873671946, 09311571946, 09811481946 Fax: 0129-4056729 E-Mail: automation_deep@yahoo.com

INTRODUCTION LETTER

This Request For Information (RFI) Needs Your Prompt Attention We Have The Following Message For You.

Dear Sir,

This is to Bring to Your Kind Attention That **DEEP AUTOMATION** is a Manufacturer & Supplier of: - Pcc's, Mcc's – Fixed & Draw out Type, DB;S / FeederPillars /Starter Panel / Push Button Station / JB'S, Control Desk / Relay Panel / Plc Panel/AMF Panel / Soft Starter, Automatic Power Factor Correction Panel, Bus ducts / Bus Trunking /Rising Mains, Cable Tray & AC/DC Drive Panel.Turnkay Execution: -Supply, Erection, Testing & Commissioning of Substation Equipments, Internal & External Electrification, Cabling & Ear thing, Fire Alarm System Etc. **DEEP AUTOMATION** is a **DEALER** of **WAGO PRODUCTS**.

For any product of DEEP AUTOMATION feel free to call. Operation & Maintenance Contracts For: - Sub – Station / Plant Lighting / Electrical Utilities, Pumping Station / DG Sets. Fabrication: - All types of Panel Box's. Our Company is Committed to Serve The Industry By Producing High Precision and Advance Technology Products of Global Standard. Our Uniqueness Lie in Anticipating the Market needs in Advance and Developing Products to Meet Those Needs with Comprehensive Infrastructure Set up And Dedicate Professional We are Poised to Deliver Precision Equipment to Our Customer at Competitive Price.

We shall please to Answer Your Queries Regarding Our Product Range Assuring You of Our Prompt Response and Looking Forward to Hearing from You Soon.

Thank You,

DEEP AUTOMATION

E- 60, S.G.M Nagar, N.I.T Faridabad -121001 MOB. NO.-0987367194

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Fabrication & Electrical Equipments

S.N.	DESCRIPTION OF ITEM	CAPACITY/RANGE	QTY.
1	Bending Machine	2500mm	1
2	Break Press	4mm x 2500mm	1
3	Drill Machine	6 -25mm	1
4	ARC Welding Machine	415VAC,350A	3
5	Pedestal Drill Machine	25mm	1
6	MIG Welding Machine	415VAC,350A	1
7	Grinder Machine	AG 7 Inch	2
8	Grinder Machine	4 Inch	3
9	ZIG SAW Machine	3mm	3
10	Hot Air Blower	Heavy Duty	2
11	Bench Vice	4 Inch	2
12	DG set	62.5KVA	1
13	Sheet Cutter	1.6mm x 16 Inch	2
14	Meter Cutting Die	68 x 68+92 x 92 mm	2
15	Die & Punch for hole	18,22.5,32 & 42 mm	1
16	Die & Punch for Bending	9 Inch	3
17	Crimping Machine		5
18	Hot Feruling Machine		2
19	Sticker Machine		2



Electrical Testing Equipments, We use:

S.N.	DESCRIPTION OF ITEM	QTY.
1	Steel Scale	8
2	Continuity Tester	6
3	Earth Megger	3
4	1000VAC Megger	1
5	High Voltage Test 3KV.	1
6	250VAC Megger	1
7	Hot Feruling Machine	2
8	Verniers Calipers	2
9	Micrometer	1
10	Hand Tool Kit	10 Set
11	Standard Meters	5
12	Digital Tong Tester	2 High
13	Computer for Panel Designing	3
14	Computer for office	10
15	Compressor with Tank 2HP	1



Our Moto

Excellence through commitment

To achieve excellence in every sphere of our activities through quality in our work procedurs and customer focused commitment.

To timely delivery of high quality, reliable, efficient engineering products and services.

To provide an optimum solution to our client needs conforming to our organizational goals to attain long-term goodwill and consistently deliver customer satisfaction.



Quality Assurance System

- ➤ DEEP AUTOMATION has a strict Quality System, committed by each team member and documented. To ensure complete fulfillment of quality policies, our quality engineers inspect the following stages.
- Raw material at the time of receiving as per QSM in which every material goes through their respective testing; Switchgear items are 100% tested while others such as Bus Bar. Wire, M.S. Sheet, Hardware, Will be sample-tested lot wise.
- ➤ Test report and other check list format are maintained views and recorded duly filled-up; enabling to trace out the reference or supplier invoice reference, supply date etc, in case of complaint in working performance in any item on after commissioning / during running time.
- → 4 stage of inspection had done at fabrication, painting, assembling and bus bar system level, so that every minor problem is eliminated & not carried further.
- ➤ 100% testing of brought out items functionally and accuracy.
- ➤ All relevant testing as functional, protection, IR, high voltage testing etc.will be carried out by QC engineer on final product, and a internal test report will be generated for office record and to submit to client.
- > Q.C Engineer directly reporting to GM-Te



DEEP AUTOMATION QUALITY POLICY

OUR MOTO

Excellence through commitment

We DEEP AUTOMATION are committed top achieve excellence in every sphere of our activities through quality in our work procedure and customer-focused commitment.

Our policy is to adhere to stringent quality standards widely acceptable in industrial environment.

We are committed to timely delivery of high quality, reliable, efficient engineering products and services.

We are focused to provide an optimum solution to our client needs conforming to our organizational goals to attain long-term goodwill and consistently deliver customer satisfaction.

We are committed tom achieve and surpass set target, encourage continuous learning process among the employees.

We remain dedicated to the continuous improvement in effectiveness of our management systems and encourage all round development of our employees.

We are committed as and organization to recognize and fulfill our responsibility to the Environment, industry, Society and the Nation to the best of our abilities consistently.

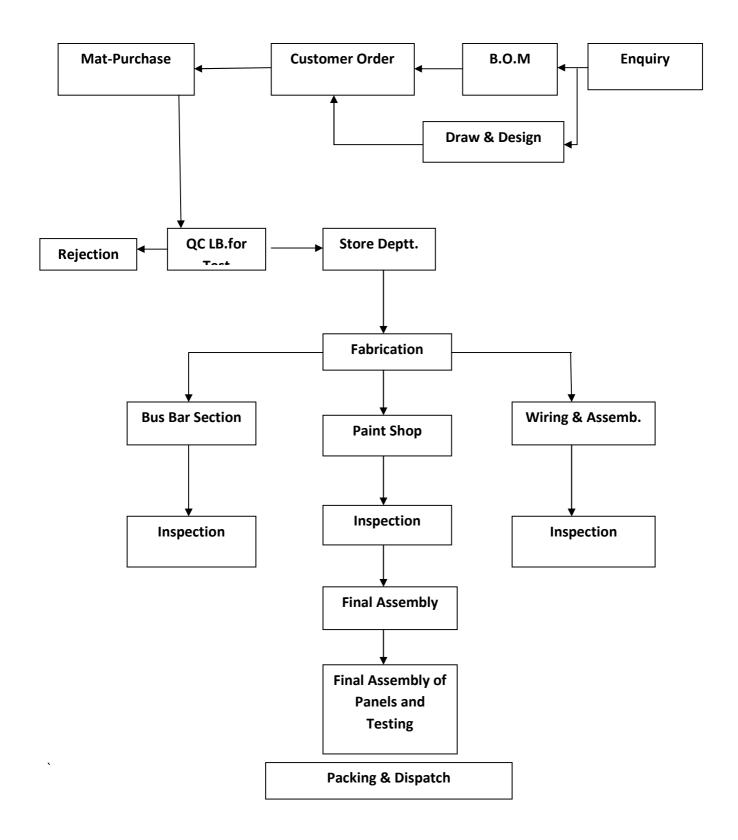
We are committed to maintain high standards of moral integrity and adhere to correct business Principles in our day to day business activities.

Date: Rakesh Rathour

Place: Faridabad, HR, India (Managing Director)



PANEL MANUFACTURING FLOW CHART





PRE-TREATMENT & POWDER COATING

Rigorous metal treatment and surface coating is provides to the sheet steel components used in construction of all type Panels.

- ➤ Company has 9-tank, sheet pre-treatment system with diesel-fired heat exchanger fitted in individual tank to perfect coating of phosphate by hot process .We do DE-ACTIVATION after doing DE-RUSTING for better Phosphate and longer life at every surface of Panel Body.A fully automatic NINE-TANK process is used for metal treatment. Treatment consists of HOT-DIP solvents / alkaline de-greasing, Pickling/De-rusting. Hot dip Phosphating and passivation.
- ➤ The whole powder coating system is conveyer having powder coating equipped with multicyclon bag filter recovery unit. This treatment is followed by Electrostatic coating of Expoxy-Polyester based powder paint which is cured in a continous conveyorisal diesel fired oven at 200 DEG.Cent.Temp.
- ➤ The Powder Coated Film of thickness 80-100 micron thus formed ensure a Non-Porous Surface and provides superior resistance against scratching corrosion and weathering.
- ➤ The standard finish is Siemens Pebble Grey (RAL-7035) AT Gloss level 60, while mounting plate is Tractor Orange (RAL-200)



BUS BAR & ASSEMBLY

Hydraulic bus bar bending system is bend job at proper without cracking at bend, using electrolyte grade conductor (with conductivity of 55-56% in Aluminium and 99% in copper). Each busbar is covered with PYC heat shrinkable sleeves in R,Y,B, colour coding, supported on SMC/FRP support suitable for 50 KA fault level.

Special instructions are followed while punching and drilling the bus-bar system to have smooth surgace without babry etc.

Bus Bar & conductor sizes are calculated after having done complete engineering and calculating de-rating facor. Factors such as INTERLEAVING or INTERPOSING of busbar especially in PCC or Bus Duct are also taken care of in order to get minimum heating and higher current capacity.

The interleaved bus bar system enhances the Bus Bar current carrying capacity and therefore enables optimum utilization of Bus Bar conductor, reduced power loss, leads energy saving, the reduce in temperature rise, increase the reliability and life of equipment also reducing ventilation and cooling requirement.

For tightening of joints torque wrenches are used and marked red at their full-tightened value. Contacts are also checked with carbon paint for their surface perfection.

For assembly, company has covered area of 1500Sq.meter with multi step tables so as to have easy approach at any parts of panels.





FABRICATION JOB WORKS





We provide a one stop shop for sheet metal fabrication services and due to more than 10 years experience in precision sheet metal work, we have in depth knowledge of the industry to benefit you and help you to stay ahead of your competition. As precision sheet metal workers accuracy in our processes pervades all aspects of our work.





With everything under one roof that's needed to manufacture your sheet metal products we offer Laser profiling, CNC punching, CNC folding, numerous inserting, studding and spot welding processes as well as MAGS and TAGS welding to coded standards in Mild Steel, Aluminium and Stainless. We also offer a complete offline design service using the latest 3D modelling software from Solid Works.





A combination of our continued investment in high tech sheet metal working equipment, machinery and software, allows us to offer our customers competitive prices and fast turnaround on custom items and series production. The total control that we exert over the finished quality and delivery is due to our expertise in each stage of the process, from initial design to finished part, with all manufacturing processes recorded and logged in our MRP system to ensure repeatability and full traceability.

Products that we supply regularly include enclosures, shop fittings, furniture, conveyer parts, architectural, fencing, lighting & components for OEMs (Original Equipment Manufacturers).







FABRICATION

Company has its own fabrication unit with complete in house facility in an area around, 5000 Sq.feet and is equipped with:

Shearing Machine 6mm x 2500 mm = 01 Nos

Break press 80 Ton with bed-3 meter, punch in c-curve = 01 Nos

Segment. Power Press 2500 mm = 01 Nos

Mig Welding 350 Amp = 01 Nos

Arch Welding 350 Amp = 03 Nos

Hand Press = 01 Nos

Tooling of UNIPUNCH for operation on power press

To give customer enclosure with greater strength and finish, company uses 14 gua-ge (2mm) CRCA Sheet Bhushan TATA Steel/SAIL and fabricates the panels in modular construction. Each panel is of folding construction type in modular construction allowing easily modification even at site and extensibility. Compact and varied size of Module with other features as mentioned under.

- > Frames of panels are made from formed profile and bolted together with precise tooling, resulting in very high accuracy.
- Minimum welding in fabrication to avoid deformation of components. Ready stock of pre-fabricated parts to expedite the delivery in short period also.
- > Components welding in fabrication to avoid deformation of components. Ready stock of prefabricated parts to expedite the delivery in short period also.
- > Supports for cable tie in Cable Alley are slotted and fixed at any distance as per requirement. Number of cable supports can also be increased or decreased.
- > Panels are fully compartmentalized in From-3B type.





MOTOR CONTROL CENTERS



We manufacture a wide range of fixed and draw-out motor control centers which is available with us in varied specifications. These motor control centers are fabricated from quality raw material and have extensive research designs in conformation to the international standards.

Fixed and Draw Out Motor Control Centers

Customers can avail from us fixed and draw-out motor control centers at reasonable price. These control centers are designed and developed for various controlling electric motors & others equipment from a central location. All these products are offered as per the specific requirements detailed down by the customers.

Motor Control Centers (MCC)

We manufacture a wide range of motor control center (MCC) panel / MCC panels and other distribution panels for our customers. These panels are available in power coating and conform to highest international standards. Manufactured using high quality copper or aluminum bus bar, this range is appreciated by our clients owing to its ability to feed larger loads to support high capacity industrial motors. In addition to manufacturing these products in standard configuration, our industrial expertise enables us to offer these products as per the specific demands of the customers.



- Water treatment industries
- Cement industries
- Sugar mill
- Paper mills
- Food processing Industries
- Hotels
- Tube mills
- Rolling mills
- Rubber industries

We are provided all types of switch gear and spear







MOTOR CONTROL CENTER (MCC)

The MOTOR CONTROL CENTER (MCC) are of bolted construction and designed to meet the requirement of modern power plants, steel plants, refineries, sugar mills, paper mills, process industries and other engineering industries. These confirm to MCC are fully compartmentalized in form 3-B, all live parts are surrounded, easy to maintain and traceable (accessibility) by mean of printed ferrule on each wire, wire in PVC race ways, proper header & terminals marking etc. The MCC shall have some salient feature as under

- Fully compartmentalized
- Wiring in colour coding, i.e. easy to traceable.
- > Drawing pocket with one additional set of drawing for ready reference all printed ferrule for easy trace ability in wiring.
- More spacious for cable and termination and flexible to increase/decrease cable ties for proper dressing.
- ➤ Complete identification of all equipment even cable Alley also.
- No wire comes direct touch to panel body, so fully operator/human safety.
- Spacious arrangement in feeder compartment for easy to maintain.
- ➤ All live parts are shrouded with transparent Acrylic sheet.
- Panels are very sleek and excellent in aesthetic.
- Minimum operating height and maximum operating height maintain in each panel, i.e. 300 (Min) & 1800 (Max.)
- > Every door is provided with very rigid hinge and earthed with copper wire for operator safety point of view.





DISTRIBUTIONS BOARDS AND STATIONS



electricity supply system; it divide an electrical power feed into subsidiary circuits, while providing a protective fuse or circuit breaker each circuit, in a common enclosure.

Power distribution boards boards

Offered by us a board collection of power distribution board to our valuable customers. These boards are mostly used for electrical power distribution as these power distribution boards offer isolation and short-circuit as basic protection. Theses board are manufactured with the

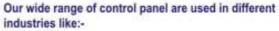
use of some important equipment such as ACB, MCCB, SDF and MCB that receive supplies from PCC.

We are providing a wide range of distribution boards and stations that is designed and fabricated as per the industry standards. A distribution board, also called panel board, is an important component of an

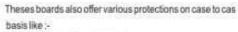


Our range of control panels :-

- LT panels
- LT busduct
- Power control center panel.
- ACB panel
- Automatic change panel
- Distribution panel
- Bye pass panel



- Steel plant
- · Paper mill
- Sugar mills etc.
- · Chemical plant etc.



"Current, "Earth fault, "Earth leakage





POWER CONTROL CENTER (PCC)

PCC, comprises Air Circuit Breaker, MCCB, SFU, etc. Normally incomers ACB are provided in single tier but outgoing ACB up to 1250Amp can be accommodated in two-tier system. Similarly MCCB & SFU feeders are fitted 4 or 3 no. in each vertical section. Panels are compartmentalized in respect of all feeder compartments, cable alleys, and vertical Bus bar. Metering protection and control Busbar minimum operating height in every switchgear as well as maximum operating height always take care. Bus bars are mounted at SMC/FRP support suitable for 50KA fault level. In PCC panel other salient features are as given under:

- Compartmentalized construction.
- > Separation in Control & Power Section.
- Perfect ventilation by means of louvers, fan, filter, ventilation hood at top etc.
- > Simple mimic (Single Line Diagram) on front of panel to show the distribution.
- > Spacious arrangement for cable termination, maintaining, rigid support and to make approach to every part.
- ➤ All jointing bolts are fully tight & red marked.
- Shrouding with perforated sheet/transparent sheet of each live parts.



POWER CONTROL CENTER (PCC)

- ➤ Complete IP-54 protection by providing neoprene Gasket.
- Panels are very sleek and excellent in aesthetic.
- Using high-tension Bolt of minimum size MIO.
- > Toolbox is provided in panels for user/operator as per customer requirement.
- ➤ Cubicles having control logic are provided with lamp & switch for illumination during maintenance.
- > Both side expendability for future expansion.
- > All bus bar size is calculating by mean of derating factors considering all relative factors.
- ➤ Interleaving Bus bar system in higher rating of PCC 4000Amp & above.





PLC PANEL / SCADA SYSTEM







We offer high performance programmable logic controllers that are widely used to automate an assortment of industrial process. These programmable logic controllers are easy to operate and posses salient features such as digital and analog inputs, relay output, timers, counters, time switches, and auxiliary relays. We provide operational training and onsite support for our PLCs. We also offer Plc programmable logic controllers. PLC panel saves electricity bill. In case there are any faults develop in the machine / plant, it can be fail early. This save the time and lors of production. These are inbuilt safety circuits to avoid accidents and save the men and material. These panels are also used to watch the production from remote location. Our extensive gamut includes SCADA system, HMI SCADA system that is used for the purpose of data acquisition and control at the supervisory level. The range of PLC scada system that we offer consist of input and output hardware, hmi, controllers, networks, communication and required software. We offer scada control system, scada temperature control system, scada hmi systems, hmi scada systems and industrial scada system, variable speed motor drives etc.

Automation panel for following machines

- Batch mixing plant
- PVC pipe slotting machine
- Leak testing machine
- CED coting plant
- Silver chain marketing machine
- Gold chain marketing machine
- Printing machine
- SPM machine etc.
- Diamond cut lathe machine (ice lathe)

We supply touch screen and HMI that designed to address diverse requirement of today industry facilities our clients to chose from on gray of sleek and compact models





GPRS WIRELESS SYSTEM



Water treatment plants





Smart GRID operations



Substation automation





Street light automation



Solar panel monitoring



Multiple applications :-

- Wireless pump hose automation
- Street light automation
- Water management-clear & sewage
- Substation-automation
- Smart grid operations
- Temperature monitoring cold storage
- Wireless remote switching-on/off
- Wireless remote data acquisition and many more...

Unique features :-

- Connect analog / digital for switching
- Set hi / low sms alert
- Build-in location finder (optical)
- Build remote data on your cell phone
- · Web based monitoring, Data storage-local / remote and DIN rail mount.



Centralized monitoring





AMF PANELS / APFC PANELS



AMF panels

We are expert panel manufacturer and supplier in faridabad, india and the customers can avail from us a range of AMF panels that is available in wide range of 10KVA to 15KVA. AMF stands for automatic start on main failure, as these are used for automatically changing over the stand by generator in the events of failure of the mains supply. On resumption of the mains supply, the system automatically changes over from generator to mains thereby eliminating the unnecessary load on the generator and turning it off. The range of AMF panels also features interlocked MCBs or pole contactors.

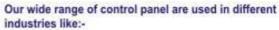


APFC panels

These panels are used in commercial buildings and industries. These panel have automatic mechanism which consist of capacitor bank. These mechanism according to the load automatically switch ON or OFF the capacitor bank to avoid the effect of voltage fluctuation and load variation. This configuration eliminates the reduce load and same the electricity. It also improves maximize demand load.

Our range of control panels :-

- Power control center panel
- ACB panel
- Automatic changeover panel



- Steel plant
- Paper mill
- Sugar mills etc.
- Chemical plant etc.





CUSTOMER NAME:-

- ❖ Acme Cleantech Solutions Limited, Gurgaon
- ❖ Cenlub System, Faridabad
- ❖ Advance Forgings Pvt. Ltd., Faridabad
- ❖ Simran Flowtech Industries, Faridabad
- ❖ Bhartiya Valve Pvt. Ltd., Faridabad
- * Ecocat India Pvt. Ltd., Faridabad
- ❖ Max Forge, Faridabad
- Pollucon Engg. Service, Faridabad
- * Rps Vikas Casting Pvt. Ltd., Faridabad
- ❖ S.K. Tech Services Pvt. Ltd., Delhi
- ❖ Kleenoil Filteration India Pvt. Ltd.,Gurgaon
- ❖ Agra Machine Tools Pvt. Ltd., U.P.





Deep Automation

We participate in Indiamart 8th Amtex-2012 Asian Machine Tool Exhibition 27-30th June 2012 in New Delhi, India









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NE

ISO 9001: 2008

National Small Industries Corporation Ltd.

New Delhi

TECHMART INDIA 2012

20th International Technology Fair



In appreciation of the participation in the

TECHMART INDIA 2012

held at hall no. 14

Pragati Maidan, New Delhi. India

from

November 14-27, 2012

This Certificate is presented to

______Ms Deep Automation ___

Deep Automation

We participate in 20th International Technology Fair Techmart India From 14-27 Nov.2012 in New Delhi, India





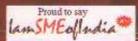




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THE WORLD





Supported By







4th, 5th & 6th October FARIDABA

VENUE:- SECTOR-12 GROUND, NEAR TOWN PARK





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Phone: +91-82559-68099,82859-68211,82859-68215

E-mail:- dronacharya.events@gmail.com

Deep Automation

We participate in 5th Industrial Exhibition & Trade Fair 4, 5 & 6th October 2013 in Faridabad, HR, India

























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