vip
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Catalogue

NATIONAL PIPE PRODUCTS

COMPOUNDING MIXER - COOLER

TWIN SCREW

TWIN DIE HEAD

PVC CONDUIT PLANT

was set up in 1982 at Kamakshipalya, Magadi Road, Bangalore - 560079. for manufacturing of rigid P.V.C conduits and accessories under the brand name of VIP©.

VIP© rigid P.V.C conduits are manufactured conforming to I.S. 9537 (Part 1) 1980 and I.S. 9537 (Part 3) 1983 specifications except for dimensions.

VIP© brand conduits are being used over the last three decades in prestigious projects by reputed Electrical Contractors, Information Technology Industry and Builders on recommendation by leading Electrical Consultants.

VIP© వి.ఐ.పి DELUXE EXTRA THICK 2 MM FRLS NATIONAL PIPE PRODUCTS

THE PRODUCT RANGE

Outside Diameter	WALL THICKNESS			Eccent-ricity**	Ovality **	Std. Packing Length x mtr
19	1.50	1.80	2.00	0.2	0.5	100 L x 3 mtr
20 (-0.3)	1.50	1.80	2.00	0.2	0.5	100 L x 3 mtr
25 (-0.4)	1.50	1.80	2.00	0.2	0.5	50 L x 3 mtr
32 (-0.4)	1.60	1.80	2.00	0.2	0.5	50 L x 3 mtr
40 (-0.4)	-	2.00	2.20	0.2	0.5	25 L x 3 mtr
50 (-0.5)	-	2.00	2.20	0.4	0.5	25 L x 3 mtr

* Tolerance on outer diameter is as per I.S Standard. All Dimensions in mm. ** Maximum permissible.

COLOURS :- BLACK ,GREY, ORANGE, RED , BLUE, GREEN and WHITE.

F.R.L.S :- All sizes of conduits and accessories are available in F.R.L.S. (Fire Retardant and Low Smoke) grade in colours

ADVANTAGES OF USING RIGID P.V.C CONDUITS: -

1. Are light in weight and can be installed easily in no time with less labour resulting in substantial cost saving.
2. Have excellent corrosion, chemical and scale forming resistance.
3. Are Fire Retardant, Low smoke, Rat & Termite Retardant. P.V.C is a self extinguishing polymer and does not promote fire.
4. Has required Mechanical, Electrical and Thermal Properties and can be used in open, concrete and underground applications.
5. Can be bent in any shape with help of Bending Spring. VIP© conduits of 19/20 mm can be bent in 'O' shape, 25 mm in 'U' shape and 32 mm in 'L' shape without any aid.
6. Can be joined permanently by applying P.V.C solvent.
7. VIP© P.V.C conduits have Specific Gravity of 1.35 - 1.45 g/ml
   Tensile Strength of 492 / 562 kg/cm2.
8. VIP© P.V.C conduits are available in various colours for Colour Coding of wiring for Power , Fire Alarm, Telecom , Lighting , UPS , CCTV , Data Cabling and Sound System etc.
9. Use of non metallic conduits i.e. P.V.C conduits manufactured as per I.S. 9537 (Part I) 1980 and (Part 3) 1983 specification is approved by Tariff Advisory Committee for electrical installations and Fire alarm systems and there is no difference in rate of Insurance Premium. Insurance Premium is charged according to the usage of premises and not on the basis of material used for construction.
10. VIP© PVC Conduits are screen printed at every meter & come with Hologram Stickers.

Company Profile

- We are the leading manufacturer of VIP FRLS ISI Marked Rigid PVC Conduits & its Accessories (For Electrical Installations) in South India. With a production capacity of 1.00 Lac Mtr/Day on latest PLC German Collaborated Machines thus achieving technological advances than others. We are among top 5 Rigid PVC Conduits producers in India

- We are the only manufacturer to be officially allowed to mark FRLS (Fire Retardant Low Smoke) on the ISI Marked Conduits by the Bureau of Indian Standards as per our knowledge.

- We are the only manufacturers to produce VIP FRLS ISI Marked Rigid PVC Conduits in 7 Colors in all sizes **(Black, White, Grey, Blue, Orange, Red, Green).** These help in color coding the wiring for various services like Fire, CCTV, PA System, Data Cabling, Telecommunication, Power, Lighting, UPS Wiring etc.,

- We maintain ready stocks of all colors and sizes & orders are executed same day if received before noon time. We are open to produce any special color required by our clients.

- VIP FRLS PVC Conduits are manufactured conforming to I.S. 9537 (Part 1) 1980 and I.S. 9537 (Part 3) 1983 specifications under License bearing # 6200014982 granted by the Bureau of India Standards, Bangalore

- VIP FRLS PVC Conduits are tested regularly at 3rd Party Laboratories such as; CIPET, Hyderabad or at Central Electrical Testing Laboratory, Kakkalur, Tamil Nadu.

- VIP FRLS PVC Conduits are also Low Halogen conduits and pass the required limits set in IEC 754, Part 1, 1994 Standards.

- VIP FRLS PVC Conduits have been approved by The Chief Engineer, Southern Command, Pune for use in all Defence Projects for the states of Gujarat, Maharashtra, Bhopal, Rajasthan, Karnataka, Tamil Nadu & Kerala.

- VIP FRLS PVC Conduits are approved by the CPWD & Hindustan Aeronautics Limited, Bangalore.

- VIP FRLS PVC Conduits are being used over the last four decades in prestigious projects by reputed Electrical Contractors, I.T Industry and Builders on recommendation by leading Electrical Consultants.

- Although based out of Bangalore in this industry with greater strength, capacity and geographic reach than ever before we have catered to projects of different categories like Hospitals, Schools, Govt. Secretariat's, I.T Parks & SEZ Units, Hotels, Apartments, Commercial Projects in places like Guwahati, Assam, Kolkata, Chandigarh, Mohali, Delhi, Bhubaneshwar, Ahmedabad, Mumbai, Pune & entire South India.

- Our resources provide an unmatched capability for new products, new materials, new applications and new processes.

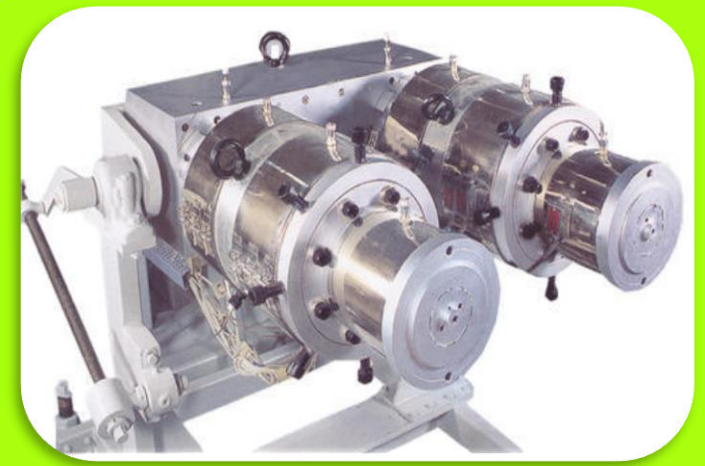
- We have been consistently producing the highest quality PVC Conduits in the industry and are committed to ensuring ongoing product excellence with satisfied customers.

- Our prime Raw Material, PVC Resin is directly sourced from world renowned manufacturers like LG, Korea & Formosa Plastic Corporation, Taiwan.

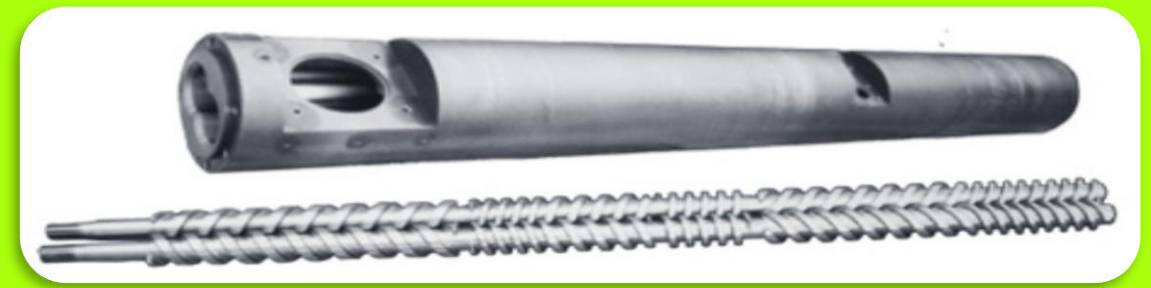
Machinery

PVC Compounding Unit

PVC Pipe Extruder



PVC Twin Die



PVC Barrel Screw

Product Range

VIP FRLS PVC Conduits

VIP FRLS PVC Bend

VIP FRLS PVC Couplers

PVC Solvent

Product Range

PVC Junction Box

Metal Junction Box

Bending Spring

Fan Box (Powder Coated)

Our Strength

Celebrating 4 Decades of

Relationship

Offering

Superior Product

Consistent

Quality

Supply

Service

Advanced

Technology

Corporate

Social

Responsibility

Aiming the World

Certification – IS 9537 (Part – 3)

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
बेंगलूरु शाखा कार्यालय
BENGALURU BRANCH OFFICE

Address : Peenya Industrial Area, 1st Stage, Bengaluru-Tumkur Road, Bengaluru-560058
Phones : 080-28394955, 28394956
Fax : 080-28398841
E-mail : bnbo@bis.org.in
Web : http://www.bis.org.in

ENDORSEMENT FOR CHANGE/S IN THE LICENCE

ATTACHMENT TO LICENCE NO. CM/L- 6200014982

CML NO	NAME OF THE LICENSEE WITH ADDRESS	PRODUCT	IS NO
6200014982	NATIONAL PIPE PRODUCTS NO.L-1 TO L 4 & R2 TO R4,SITE NO.15,335/25/14,HEROHALLI VILLAGE,YESHWANTHPUR HOBLI,SUNKADAKATTE BANGALORE-560091, Karnataka	Conduits for electrical installations: part 3 rigid plain conduits of insulating materials (superseding is:2509)	IS 9537 : Part 3 : 1983

ENDORSEMENT NO. 1 Dated 30.4.2016

Renewed for a further period of two years from Thirtieth March Two Thousand Sixteen to Twenty Ninth March Two Thousand Eighteen.

Other terms and conditions of Licence remain the same.

SCIENTIST-F & HEAD

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CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY
Cherlapally, Hyderabad - 500 051.

Test Certificate

Continuation Sheet

NABL CERT No. T-0828&0829

No.: 0127084

REPORT No. 1503991 TEST RESULTS Page 2 of 3
PART – C (As per IS:9537 (Pt.1 & 3) with latest Amendment)

S.No	Clause	Test	Specified Requirement	Results obtained
1.	7	DIMENSIONS		
1.1	7.1	Diameter: (mm)		
		Outside Diameter	25.0	24.84
1.2		Tolerance on Outside Diameter	-0.4	-0.16
1.1.2		Inside Diameter (min) (mm)	20.6	20.64
1.1.3	7.1.1	Max , Min OD of the Conduits measured by Gauges	Fig.1 & Fig.2	Passed
1.1.4	7.1.1	Dimensions of Socket (mm)		
		(a)Outside Diameter (max)	24.5	N.A
		(b)Inside Diameter	20.1 + 0.2	N.A
		(c)Length of the Socket (min)	40	N.A
1.1.5	7.2	Min Inside Diameter checked by Gauges	Fig.3	Passed
1.1.6	7.3	Length of Conduit Pipe (mtr)	3.0	3.0
	7.4	Uniformity of wall thickness (mm)	In no case shall the difference between the value measured and the average of twelve values obtained from three simple exceed 0.1+10%of average value	Passed
	8.1	Construction	The inside and the outside surface of conduits shall be reasonably sooth and free from burrs, flash and similar defects ; in addition, the edge over which the conductor s or cable are likely to be drawn shall not damage the cable or conductor	Passed

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Test Certificate

Continuation Sheet

NABL CERT No. T-0828&0829

No.:0127084

REPORT No. 1503992 TEST RESULTS Page 3 of 3
PART – C (As per IS:9537 (Pt.1 & 3) with latest Amendment)

S.No	Clause	Test	Specified Requirement	Results obtained
2.	9.2	Bending test	Shall show no cracks visible to normal or corrected vision without magnification	Passed
	9.3	Compression test	a) The difference between the initial diameter and diameter of the flattened sample when a compression force of 750 N is still applied, shall not exceed 25% of the initial diameter	Passed 19.2%
			b) The difference between the initial diameter and diameter of the flattened sample measured after 1 minute of removal of compression force of 750 N shall not exceed 10% of the initial diameter	Passed 4.0 %
	9.4	Impact test	There Shall be no sign of disintegration , neither shall there be any crack visible to the naked eye	Passed
	9.5	Collapse test	The sample still being secured to the support	Passed
3.	10.0	Resistance to Heat (mm)	Shall not exceed 2 mm	0.16
	11	Resistance to burning	Any flame shall have died out in less than 30 sec after removal of the burner	Passed 20 sec
4.	12.1.1	Electrical Strength	No breakdown or flashover shall occur when the sample is subjected for high voltage test by applying 2000 V AC for 15 minutes between the electrodes as specified.	No Flashover or Breakdown occurred
4.1	12.1.2	Insulation Resistance	Shall not be less than 100 MΩ	Passed 103 MΩ

PART D: REMARKS : NIL

NB: 1. The results related only to items/samples tested.
2. The report shall not be reproduced in full/part without written approval of the laboratory

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Certification – F.R.L.S & Low Halogen

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NABL CERT No. T-0828&0829

No.:0127085

REPORT No. 1503992/2 TEST RESULTS Page 2 of 6
PART – C

S.No	Test	Test Method	Specified Requirement	Results obtained
1.	Oxygen Index (%)	ASTM-D 2863-1987	21% (min)	29

PART D: REMARKS : NIL

NB: 1. The results related only to items/samples tested.
2. The report shall not be reproduced in full/part without written approval of the laboratory.

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No.: 0127085

REPORT No. 1503992/2 TEST RESULTS Page 3 of 6
PART – C

S.No	Test	Test Method	Specified Requirement	Results obtained
1.	Temperature Index (°C)	ASTM-D 2863-1987	250 °C (min)	260

PART D: REMARKS : NIL

NB: 1. The results related only to items/samples tested.
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NABL CERT No. T-0828&0829

No.: 0127085

REPORT No. 1503992/2 TEST RESULTS Page 4 of 6
PART – C

S.No	Test	Test Method	Specified Requirement	Results obtained
1.	Smoke Density (%) (Clear Beam Reading)	ASTM-E -662-1983	--	97%

PART D: REMARKS : NIL

NB: 1. The results related only to items/samples tested.
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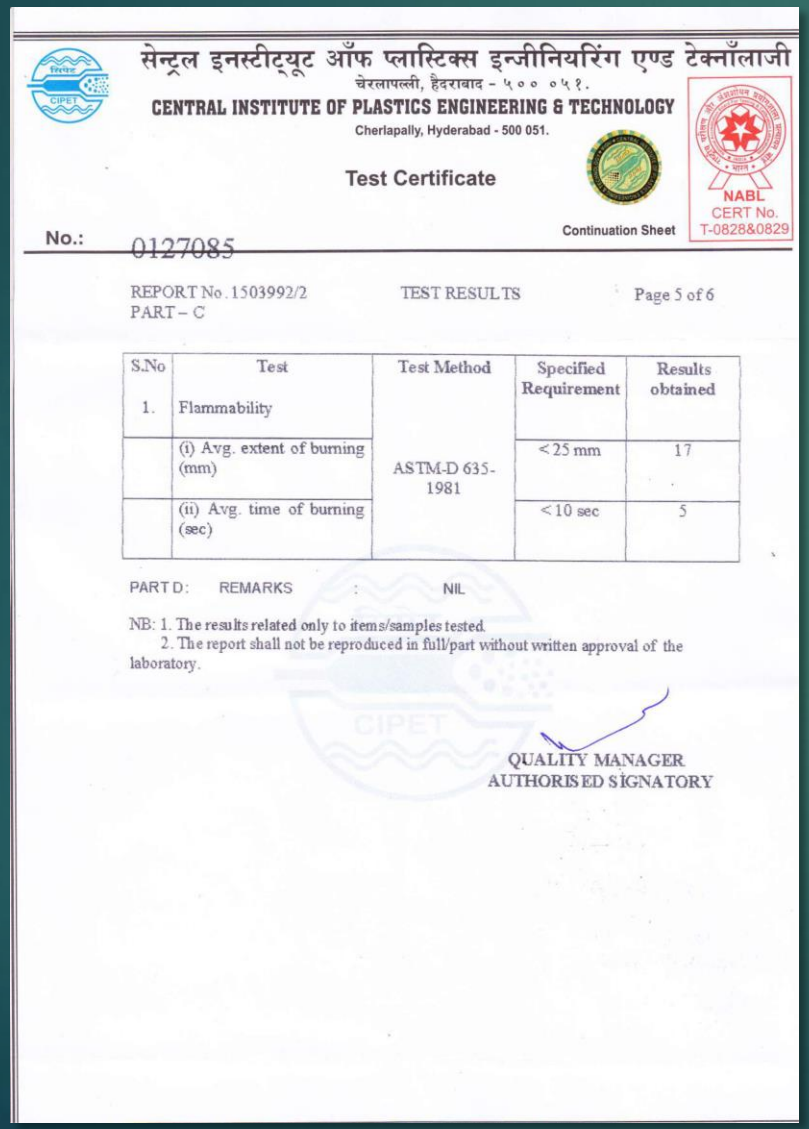

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Continuation Sheet

No.: 0127085

REPORT No. 1503992/2 TEST RESULTS Page 5 of 6
PART – C

S.No	Test	Test Method	Specified Requirement	Results obtained
1.	Flammability			
	(i) Avg. extent of burning (mm)	ASTM-D 635-1981	< 25 mm	17
	(ii) Avg. time of burning (sec)		< 10 sec	5

PART D: REMARKS : NIL

NB: 1. The results related only to items/samples tested.
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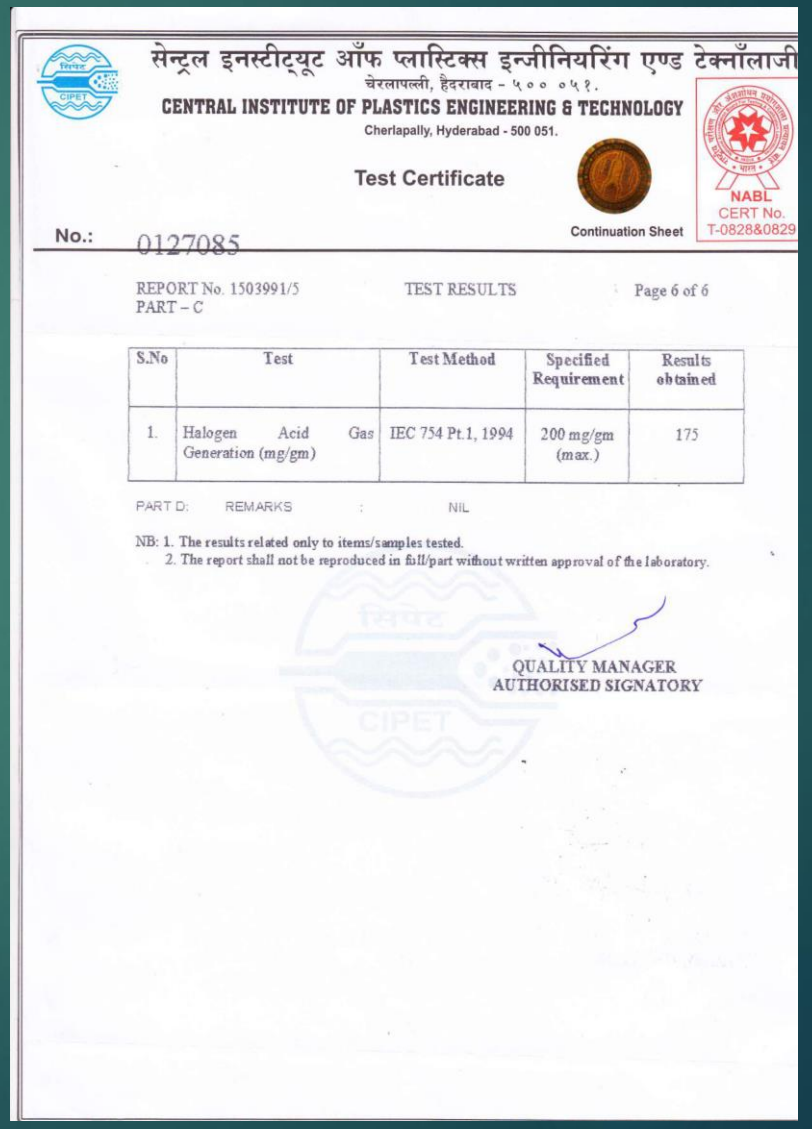

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NABL CERT No. T-0828&0829

Test Certificate

Continuation Sheet

No.: 0127085

REPORT No. 1503991/5 TEST RESULTS Page 6 of 6
PART – C

S.No	Test	Test Method	Specified Requirement	Results obtained
1.	Halogen Acid Gas Generation (mg/gm)	IEC 754 Pt.1, 1994	200 mg/gm (max.)	175

PART D: REMARKS : NIL

NB: 1. The results related only to items/samples tested.
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In-house testing facility

FACILITIES AT OUR LABORATORY FOR TESTING OF RIGID PVC CONDUITS AND TEST RESULTS

Each batch of VIP rigid P.V.C conduits is tested as per scheme of testing and inspection as per I.S. 9537 (Part 1) 1980 and I.S. 9537 (Part 3) 1983 except for dimensions in our laboratory regularly and also tested by us at C.P.R.I Bangalore & CIPET Mysore.

1. Classification:-

Rigid Plain Conduit made of Insulating material i.e. P.V.C in different stresses.

2. Marking on each length:-

(Screen printing)

VIP వి.ఐ.పి (DELUXE) EXTRA THICK 2 MM FRLS NATIONAL PIPE PRODUCTS TMR # 543440.

3. Dimensions :-

All dimensions are as per I.S. specification and are measured by various instruments.

4. Construction :-

The inside and outside surface of the conduit is smooth, free from burs, flash and similar defects.

5. Compression Test:-

(a) The difference between the initial diameter and the diameter of the flattened conduit when a compression force of 750 N is applied does not exceed 25 % of initial diameter and

(b) it does not exceed 10 % after 1 minute of removal of compression force.

6. Impact Test :-

There is no sign of disintegration or crack on Impact testing after conditioning and fall of mass of hammer from a specified height.

7. Resistance to Heat :-

On Ball pressure test the impression diameter does not exceed 2.0 mm.

8. Resistance to Burning:-

The conduit does burn but the flame dies out within 1 second (specified 5 seconds) after removal of the burner.

9. Electrical Characteristics:-

No flashover or breakdown occurs and the measured insulation resistance is not less than 100 M .

10. Bending Test :-

Conduits of 16, 20 and 25 mm does not show any crack after testing the sample on bending up to 180° on a bending device at room temperature.

11.Collapse Test :-

The specified gauges passes through the conduit to check the minimum I.D. in case of conduits of diameters 16, 20 and 25 mm.

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Clients

Infosys

Micron Electricals
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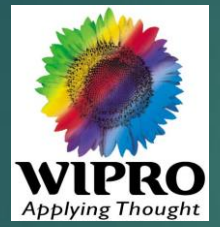
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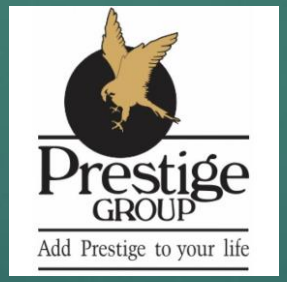
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National Pipe Products
#335/25-14, Herohalli Village,
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