



# Company Profile





With presence across the length & breadth of the country, and a footprint of over 30 years in the industry, Vectus Industries Limited is one of the leading Polymer Based Water Storage Solutions companies in India; primarily in the business of manufacturing water storage tanks and piping systems.

With more than 4300 dealers and distributors, 14 manufacturing plants and 4 depots across the country, Vectus has become India's one of the leading and fastest growing Water Storage and Piping System company.

Keeping abreast with the national and international standards of quality, Vectus Industries Limited is an ISO 9001:2015 Certified Company.

From being the first in India to introduce blow moulded tanks to being one of the largest manufacturer of blow moulded tanks in the world, Vectus Industries Limited is one of the leading water storage and piping solutions provider in India; catering to residential, commercial, industrial, infrastructural and agricultural sectors.

It operates across five distinct product verticals namely:

- 1. Water storage tanks
- 2. Pipes and fittings
- 3. Household moulded plastic products
- 4. Bath accessories range
- 5. Road safety barricades

Hence, it's a one-stop solution for all kinds of water storage & water transference needs. Owing a strong brand recall for plastic water storage tanks, Vectus also has one of the most diversified product portfolios in the pipes segment. The company's focus on quality and value for money product range are applicated both amidst vendors and customers.

## **<** Milestones **>** Started manufacturing 1989 Rotational Moulded Tanks Introduced PVC Piping System 2006 & PPR Piping System Formed Vectus Industries Limited Introduced 2008 Composite Piping System Started manufacturing 2009 Blow Moulded Tanks Added CPVC Piping System to our portfolio Collaborated with Floteks, Turkey 2013 Introduced Manholes and **Underground Tanks** Introduced Four Layer 2015 Tanks in Blow Moulding Introduced 2016 Column Pipes Associated with Microban & introduced 2019 European standard Tanks in India Introduced Bath Accessories Range, 2020 Road Safety Products & **UGD Pipes**







#### **SAP HANA Innovation Award 2017**

Vectus Industries Limited has been felicitated by the SAP HANA Innovation Award 2017 for reducing operational costs by implementing SAP S/4 HANA 1511 On-Premise Edition across PAN India operations.

#### World's Greatest Brands 2015 Asia & GCC

The team of experts after much deliberation and consideration, rewarded and acknowledged Vectus Industries Ltd. as one of the World's Greatest Brands Asia 2015 in a prestigious award ceremony held in Dubai.



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# < Our Product Portfolio >

We are a complete water storage solution provider company. With our three decades of trust, superior quality, cutting edge technology and consumer friendly designs, our products enjoy a proven track record of excellence. Our overhead and underground tanks are designed and manufactured keeping in mind the industry needs and the ever-changing demands of our consumers. Water is the lifeline for every being, we at Vectus, with our complete range of Plumbing system to Water storage solution in household, agriculture and industrial sector, touch millions of lives across the country, which makes us "India ki Waterline". Vectus manufactures an extensive range of products for agricultural, industrial and domestic applications under these product categories,

- Vectus Pipes and Fittings
- Vectus Water Storage Tanks (Overhead and Underground Tanks)
- Vectus Household Moulded Plastic Products



# < Piping Systems >

To transfer water in the most apt manner, ensuring not even a drop is wasted is the most challenging task. We all know the current situation of water on our planet. So it becomes more important for us as a company to be more responsible. The reason why, we keep innovating and researching to create products to conserve this most essential element of life.

A piping system plays an important role as it is responsible for transferring water from the source to the end user without causing any leakage or wastage. Having a good labyrinth of piping is one thing. But having a piping system that does not corrode, crack or break due to external force or internal water pressure is what is the most important factor to be considered while choosing a piping system.

Be it the transfer of potable water from a water source to homes or for industrial use, it is necessary that a piping system is strong enough to bear any external force, sustain under any environmental conditions.

We are one of the largest manufacturers of PVC pipes. Our well-diversified portfolio of piping systems is ideal for industrial, household, as well as, agricultural needs. Besides the piping systems for transference of water, we also manufacture piping systems suitable to be used for other liquids and gases as well.

Our line of Vectus Piping Systems:

- ▶ CPVC Piping System
- Agri Pressure Plus Pipes
- ▶ uPVC Piping System
- Column Pipes
- ▶ PPR Piping System
- Casing Pipes
- Composite Piping System
- ▶ HDPE Pipes
- ▶ SWR Drainage System
- UG Drainage Piping System



# **CPVC Piping System**







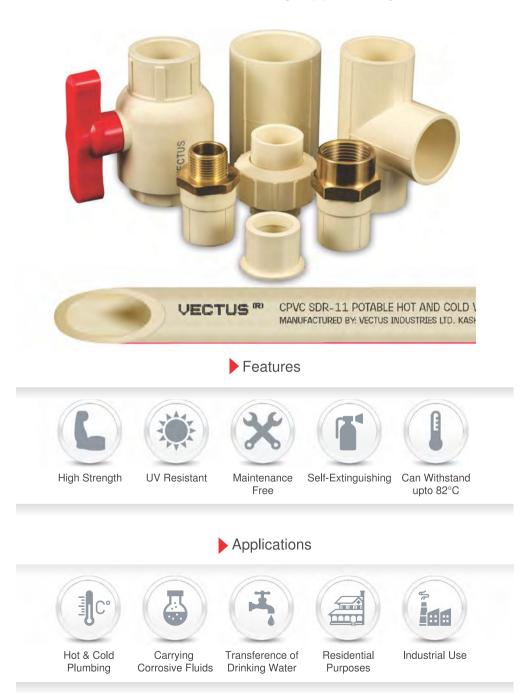


Vectus CPVC Pipes and fittings are manufactured using world class raw material and technology, which makes them ideal for both hot and cold water distribution systems. These pipes are made from a special plastic, chemically known as Chlorinated Polyvinyl Chloride, commonly known as CPVC.

These pipes are a unique combination of high impact resistance, with no compromise in the pressure bearing capacity / tensile strength or Vicat softening temperature. These qualities lower the chances of cracks / damages while handling, during storage and installation.

The pipes are manufactured as per ASTM F 441 while the fittings are manufactured as per ASTM D 2846 & ASTM F 439 in CTS (Copper Tube Sizing).

- Pipes are available in SDR 11, SDR 13.5, SCH 40 & SCH 80
- The available range of pipes and fittings varies from 15 mm to 100 mm



Vectus uPVC Pipes and fittings are specifically designed for cold water operations in residential buildings and offices. These pipes are non-toxic and lead free which makes them safe for carrying potable water. The jointing process is accomplished quickly and easily using inexpensive tools. Hence, reducing labor and installation cost to a great extent.

Vectus uPVC pipes are manufactured as per ASTM D 1785 & fittings as per ASTM D 2467, wherein pipes are available in SCH 40 and SCH 80.

• The available range of pipes and fittings varies from 15 mm to 100 mm.

# uPVC Piping System





## Features





Non Toxic





**UV** Resistant



Self-Extinguishing





Application



Lead Free

Maintenance Free

# Applications







Residential Purposes



Transference of Drinking Water



Swimming Pool

# **PPR Piping System**



Vectus PPR Pipes and fittings are manufactured using Polypropylene Random Copolymer (PP-RC), which is the most reliable polymer in the piping industry. The superior physical characteristics of PPR such as having a working temperature from -20° upto 95°C, along with excellent chemical resistance, providing a definite solution to oxidation and calcification; make Vectus PPR Piping Systems ideal primarily for chemical transportation, in pharmaceutical companies and for other industrial use, as well as, hot & cold water plumbing systems in buildings and industrial piping.

Due to the high levels of strength and light weight, Vectus PPR Piping Systems prove to be the most trusted piping systems to be employed in industrial applications and water supply (hot and cold).

The physio-chemical features of Polypropylene Random Copolymer and the type of welding carried out - fusion welding - ensures that the piping system maintains a perfect seal even under the most difficult conditions, which makes it suitable to be used for various other systems like air distribution, radiator heating, etc. Vectus PPR Piping Systems are physically superior, hygienically safe and non-carcinogenic. The Pipes are manufactured as per IS 15801 and are available in PN 6, PN 10, PN 16 & PN 20.

- The available range of pipes and fittings varies from 16 mm to 160 mm
- The pipes & fittings are available in 2 different colours:











Vectus Industries Limited manufactures PE-AL-PE multi-layer Composite Pipes, which are composed of an aluminium core encased in an inner and outer layer of Polyethylene. All the layers are permanently bonded together by intermediate adhesive layers

The thickness of the aluminium layer in Vectus Composite Pipes has been selected to meet compressive and flexural strength requirements. This helps to combine the advantages of metal and plastic pipes and eliminate the disadvantages of both materials at the same time.

# Multiple PE - AL - PE Layers Outer PE Layer Aluminium Layer Inner PE Layer Adhesive Bonding Layer

The aluminium core is absolutely diffusion tight and reliably prevents oxygen or gases from permeating into the pipe. It compensates and reduces snap-back forces and heat expansion with changes in temperature.

Vectus Black composite pipes are manufactured as per IS 15450:2000 and yellow pipes as per ASTM F 1282.

The available range of pipes and fittings varies from 1014 to 4050

# **Composite Piping System**









High Strength



Chemically Inert



Smooth Bore



Easy to Bend & Retract



Can With stand upto 95°C



Hot & Cold Water Application



Radiator Heating System



Transit of Compressed Air & Gas



Conduit of Fiber Cable Operation



Cooling System

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# **SWR Drainage System**





Vectus SWR (Soil, Waste and Rainwater) Drainage System includes a wide range of soil, waste and rain water plumbing products for residential and industrial developments. The system is available in Ring-Fit and Self-Fit options, wherein the pipes are manufactured as per IS 13592 and fittings are as per IS 14735.

Vectus SWR pipes and fittings are available from 75 mm to 160 mm.

The pipes are available in two types:

- Type A Used for ventilation pipe work and rainwater harvesting.
- Type B Used for soil and waste discharge systems.



VECTUS ™ DN 160mm Type-B SWR PIPE IS:13592 ☐ CM

#### Features



Lightweight



UV Resistant



Leak Proof Joint



Yellow Ring for Fast Installation



Offices



Residential Purposes



Industrial Use



Hospitals



Sewage & Waste Water Lines



Rainwater Drainage

Vectus Pressure Plus Pipes are manufactured using world class uPVC material, which is achieved by un-plasticizing PVC material, to get more strength and stiffness. The material used for producing these pipes has the ability to stabilize the UV radiation and since it is plastic, so the probability of corossion is nil, which makes these pipes ideal for use in agricultural or any other outdoor operations.

Vectus Pressure Plus Pipes are manufactured in accordance with IS 4985 standard, covering range from 20 mm to 250 mm in pressure ratings of 2.5, 4, 6 & 10 Kg/cm<sup>2</sup>. The moulded fittings are manufactured as per IS 7834 standard.

# Agri Piping System







VECTUS (%) PRESSURE PLUS PIPE DN 110 MM 4.0 Kg/Cm² CLAS

#### Features



Lightweight



UV Resistant



High Strength



Ideal for harsh environment



Industrial Mining



Industrial Use



Irrigation



Suitable for Sandy & Saline Water

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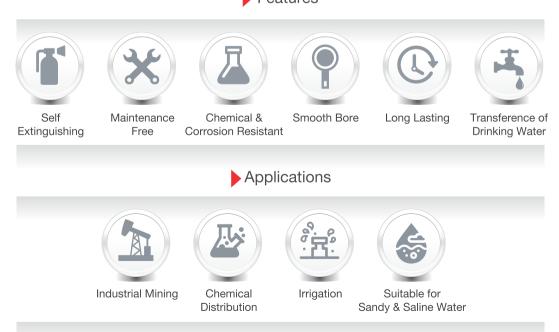
# Column Pipes

Vectus Column Pipes are made from strong uPVC material which makes these pipes ideal for handling water under high pressure. The pipes are available in Socket and Belling type. One of the ends has a female socket and the other has threads. Therefore, the pipes do not require any fittings. The inner surface of Vectus column pipes are very smooth, it doesn't let the water put pressure on the joints, hence also known as Pressure Pipes.

- Belling shaped pipes are available from 1" to 11/2"
- Socket shaped pipes are available from 1" to 4"



## Features



Vectus HDPE Pipes are manufactured from High Density Polyethylene and as per IS 4984. The pipes are recommended for maximum water temperature of +45° C. They may also be used up to the ambient temperature of -45° C as long as the temperature of the water inside the pipe does not exceed the operating temperature of 27° C. The pipes are extremely useful in water supply, bore well, sprinkler, irrigation, pesticide dispersal, cable ducting, sewage/drainage, natural gas & other gases etc. in urban and rural areas.

• In PE - 80 and PE - 100, pipes are available from 20 mm to 400 mm and 32 mm

to 400 mm respectively. • 20 to 40 mm sizes are available in 100 mtr. to 500 mtr. coil.

• 50 to 60 mm sizes are available in 100 mtr. to 300 mtr. coil. • 75 mm size is available in 100 mtr. to 200 mtr. coil.

• In PE - 63, pipes are available from 20 mm to 400 mm

• 90 to 110 mm sizes are available in 100 mtr. coil

(These will be supplied from Banmore unit).

# **HDPE Pipes**





#### Features







High Strength Anti Bacterial







Durable



Telephone Cable Protection



Transference of Drinking Water



Industrial Use



Irrigation



Sewage & Waste Water Lines



Gas & Oil Transmission

- 1

# **UG Drainage Piping System**



Vectus presents UPVC Underground Drainage Pipes which are manufactured according to IS standard - 15328 with ISI Mark CM/L- 8300133310. These pipes are made up of unplasticized Polyvinyl Chloride and are intended for underground non-pressure gravity drain and sewer applications for transportation of soil & waste discharge of domestic origin, surface water and Industrial effluent and are useful in both domestic, commercial and industrial applications.

These pipes are less expensive and comparatively lighter yet stronger than other PVC Pipes/Concrete pipe of similar stiffness with equivalent load carrying capacity. The available range of pipes varies from 63 mm to 250 mm.



Features





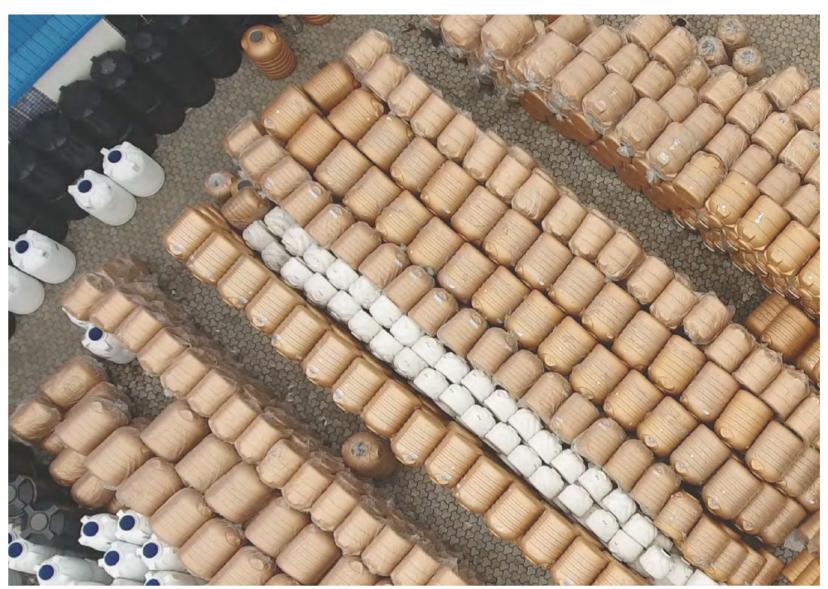
Industrial Use



Sewage & Waste Water Lines



Rainwater Drainage



# < Vectus Water Storage Tanks >

The average daily consumption of water by a person in India is about 200 to 300 litres. With our population crossing 1.32 billion, imagine how quickly we're losing out on our natural resources. At a domestic level, what one can do to use water judiciously and be responsible towards the environment is to conserve it in the best possible way.

This is where the Water Storage Tanks come into play. They are the most reliable and convenient way to store and conserve water for later use. Every household / industry and even a farm needs a water storage tank for a smooth day-to- day functioning.

From being the first in India to introduce blow moulded tanks to being the largest manufacturer of blow moulded tanks in the world, Vectus tanks are strong, durable, anti-bacterial with UV protection technology and most importantly they are leakage-proof.

Our tanks are available in 2, 3 & 4 protective layers and in a variety of colours, one can choose as per their needs. The tanks are manufactured by using two different processes.

- ▶ Blow Moulding
- ▶ Roto Moulding

- 1



# < Blow Moulding Process >

Blow Moulding process is a specific manufacturing process by which hollow plastic objects are formed. The Blow Moulding process begins with melting down the plastic and forming it into a parison. The parison is a tube-like piece of plastic with a hole in one end through which compressed air can pass.

The parison is then clamped into a mould and air is blown into it. The air pressure then pushes the plastic out to match the mould. Once the plastic has cooled and hardened the mould opens up and the part is ejected.

It is a highly versatile manufacturing option that allows for unlimited design possibilities. The process also has a number of inherent design strengths, such as consistent wall thickness and strong outside corners which are virtually stress free. For additional strength, ribs form an integral part of the design.

# < Roto Moulding Process >

Rotational Moulding involves a heated hollow mould which is filled with a charge or shot weight of material. It is then slowly rotated (usually around two perpendicular axes), causing the softened material to disperse and stick to the walls of the mould. In order to maintain even thickness throughout the part, the mould continues to rotate at all times during the heating phase and to avoid sagging or deformation also during the cooling phase.

Vectus has installed the state-of-the-art plants which are one of their kind in the subcontinent, encompassing the complete process in-house, beginning from extrusion, pulverisation to roto moulding on Bi-Axial Roto Moulding machine.

Vectus ISI is a superior quality Rotational Moulded water tank conforming to IS 12701: 1996 (reaffirmed 2006).

Polyethylene (PE) of Rotational Moulded Grade, which is duly stabilized with anti – oxidants is used as raw material for manufacturing of the tank. The compound, hence formed, provides protection against heat and oxidation of tanks. The nominal service temperature of Vectus ISI tanks varies from 1° C to 50° C.

Since, we use the conventional Rotational Moulding technology for manufacturing of these tanks, therefore, the finished product comes out to be stronger and more rigid as compared to other tanks in the market. Vectus ISI tanks are available from 200 liters to 10,000 litres.

# **Vectus ISI Tanks**



## Salient Features

- ▶ Virgin raw material
- ► Heat & oxidation resistant
- Threaded lid for ease of opening and closing
- ▶ Smooth surface finish
- ▶ 5 years of Guarantee
- ▶ Odour free







## PE Manholes

Manhole chamber is a major component of any sewage & drainage network. It is used in domestic & industrial sewage/ drainage systems. It is an access point to public utilities and other important service hardware for people. That includes access to sewers, telephone lines, electrical cabling, storm drains, district heating, and gas utilities. This means that manholes do more than providing access to big tunnels. While using Vectus Manhole Chamber, one can change the direction, diameter of pipe and gradient of any sewage & drainage line.

Traditionally, Manhole & inspection chamber was made using concrete & bricks in India. But the underground water, chemicals & gases would always cause cracks & leakages.

PE manholes designed as per the latest and most comprehensive European standards EN 13598 - 2 have a proven track record with many advantages over conventional brick or concrete manholes:

- ▶ Significantly faster, safer and easier installation hours vs. days / weeks;
- No maintenance no corrosion and hydraulically optimized flow profiles;
- ▶ Highly durable over 50 years of service life in challenging site conditions ranging from heavy vehicular load, industrial waste to high water table.





# Vectus Underground Water Storage Tank >

With the increasing population and demands of every individual, conserving space has become the utmost concern for a diverse country like ours. Minimalism is the key to create more space and our line of products truly hold this characteristic. Besides underground solutions, convenience of mobility is also a unique feature which saves money and valuable time to build facilities.

#### **Unique Features**

- Structurally strong
- Lifting provision for easy handling
- Made of food grade material which makes it resistant to fungus and bacterial growth
- Easy to install
- Comes with an airtight manhole cover assembly that prevents contaminants from flowing into the tank
- ▶ Being modular, it's easy to expand
- Impermeable to roots of trees
- One piece Roto Moulded tank without any joints, hence leakage proof.

#### Benefits

- > Zero foot print as completely underground
- Durable & Light weight
- Corrosion resistant
- Easy to handle
- Easy to relocate
- Easy to Maintain/ Clean

#### Multipurpose

- ▶ Underground Water Storage
- ▶ Rainwater Harvesting
- Water storage for Industries
- Storage for fire fighting
- Reservoirs for irrigation system







# भारतीय मानक ब्यु

BUREAU OF INDIAN STANDARDS

भोपाल Bhopal Branch Office

पता

Address:

भोपाल शाखा कार्यालय।मानकलाया,ई-5, अरेरा कॉलोनी,बिटन मार्केट,भोपाल - 462016

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लाइसेंस संख्या सी एम/एल - 8200019204 की संलग्नी ATTACHMENT TO LICENCE NO. CM/L - 8200019204

सी एम/एल संख्या, CML/NO	लाइसेंसधारी का पता सहित नाम NAME OF THE LICENSEE WITH THE ADDRESS	उत्पाद का नाम NAME OF THE PRODUCT	भा मा संख्या IS NO.
8200019204	Ms Vectus Industries Limited Plot No. 41,42 Industrial Area Banmorem Distt : Morena - 476444 Madhya Pradesh	polyethylene pipes for water supplies	IS 4984 : 2016

पृष्ठांकन संख्या 6 दिनांक **ENDORSEMENT NO. 6 DATED**  5/12/18

The following addition in the scope of licence has been approved by the Bureau with effect from Sixteen November Two Thousand and Eighteen.

As per Annexure -1 Attached

Consequent upon the above changes, the revised scope of licence in Column (2) of the table in first schedule of the Licence along with the Standard Mark in Column (1) of first schedule is amended as follows:

As per Annexure -2 Attached

लाइसेंस की अन्य निबन्धन व शर्ते यथावत हैं। Other terms and conditions of Licence remain the same.

PRITI BHATNAGAR वैज्ञानिक-ई एवं प्रमुख भारतीय नानक ब्यूरो, भोपाल Bureau of Indian Standards, Bhopal



# भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

भोपाल शाखा कार्यालय

**Bhopal Branch Office** 

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# ANNEXURE-1 TO ENDORSEMENT NO. 06 FOR LICENCE HAVING CM/L-8200019204 AS PER IS 4984:2016

		Material Grades		
	PE 63	PE 80	PE 100	
Pressure Ratings	Size	es (Nominal Diameter), in m	mm	
PN 6	200, 225, 250, 280, 315, 355, 400	200, 225, 250, 280, 315, 355, 400	200, 225, 250, 280, 315, 355, 400	
PN 8	200, 225, 250, 280, 315, 355, 400	200, 225, 250, 280, 315, 355, 400	200, 225, 250, 280, 315, 355, 400	
PN 10	Not Applicable	200, 225, 250, 280, 315, 355, 400	200, 225, 250, 280, 315 355, 400	

O.A

प्रीती भटनागर PRITI BHATHAGAR वैज्ञानिक-ई एवं प्रमुख भारतीय मानक ब्यूरो, शोपाल Bureau of Indian Standards, Bhopal



भोपाल शाखा कार्यालय

**Bhopal Branch Office** 

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#### ANNEXURE-2 TO ENDORSEMENT NO. 06 FOR LICENCE HAVING CM/L-8200019204 AS PER IS 4984:2016

	Material Grades		
	PE 63	PE 80	PE 100
Pressure Ratings	Size	s (Nominal Diameter), in m	ım
PN 4.0	40, 50, 63, 75, 90, 110, 125, 140, 160, 180	50, 63, 75, 90, 110, 125, 140, 160, 180	No Size Covered.
PN 6.0	32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	40, 50, 63, 75, 90, 110, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400
PN 8.0	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400
PN 10.0	Not Applicable	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400

प्रीती भटनागर PRITI BHATNAGAR वैज्ञानिक- ई एवं ग्रमुख भारतीय मानक ब्यूरो, भोषाल Bureau of Indian Standards, Bhopal



# भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS भोपाल Bhopal Branch Office

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# पजीकृत/पावती

हमारा संदर्भ : BPLBO/L- 8200019204

दिनांक - 1877 (5

प्रमाणन मृहर लाइसेंस संख्या सी एम/एल - 8200019204 का नवीकरण

आई एस - 4984: 2016

मेसर्स वैक्टस इण्डस्ट्रीज लि., प्लाट नं. 41 42, इण्डस्ट्रीयल एरिया, बामोर, जिला म्रैना - 476444 (मध्य प्रदेश)

## महोदय.

- 1. कृपया अपने नवीनीकरण के संदर्भ में भेजे गए आवेदन पत्र दिनांक 1806 2019 का अवलोकन करें। हमें यह जानकारी देते हुए प्रसन्नता है कि आपके प्रमाणन लाइसेंस का दिनांक 01/08/2019 से 31//07/2020 तक नवीकरण हो गया है।
- 2. कृपया ध्यान दें कि यह लाइसेंस उपरोक्त लिखी अवधि के बाद समाप्त हो जाएगा, अंत: आपसे अन्रोध है कि आप अपना लाइसेंस नवीनीकरण कराने के लिए आवेदन पत्र, नवीकरण आवेदन शुल्क, वार्षिक शुल्क तथा मृहरांकन शुल्क के साथ अगले नवीकरण की तिथि से कम से कम एक मास पूर्व भेजें। 3. लाइसेंस नवीनीकरण की पृष्ठांकन शीट संलग्न है। इसे कृपया आपके पास उपलब्ध मूलं लाइसेंस के साथ जोड़ लें।
- 4. आपको सलाह दी जाती है कि अपना उत्पादन कार्यक्रम अग्रिम रूप से इस कार्यालय को अवश्य सुचित केरें । धन्यवाद

भवदीय

वैज्ञानिक -ई एयं प्रमुखं भारतीय मानक ब्यूरों, भोपाल Bureau of Indian Standards, Bhopal

संलग्न : अन्लग्नक क्रंमाक 07



पता

भोपाल शाखा कार्यालय।मानकलाया,ई-5 अरेरा कॉलोनी।बिटन

मार्केट|भोपाल - 462016 Address:

Mankalaya, E-5 Arera Colony Bitten Market-Bhopal 462016

दूरभाष

0755-2423449, 2423452, 2423454

Phones:

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ई-मेल e-mail bpbo@bis.gov.in, bplbo@bis.org.in

http://www.bis.org.in, www.manakonline.in

लाइसेंस संख्या सी एम/एल - 8200019204 की संलग्नी ATTACHMENT TO LICENCE NO. CM/L - 8200019204

सी एम/एल संख्या CML/NO	लाइसेंसधारी का पता सहित नाम NAME OF THE LICENSEE WITH THE ADDRESS	उत्पाद का नाम NAME OF THE PRODUCT	भा मा संख्या IS NO.
8200019204	M/s Vectus Industries Limited Plot No. 41,42 Industrial Area Banmorem Distt : Morena – 476444 (M.P.)	Polyethylene Pipes for Water Supplies	IS 4984 : 2016

पृष्ठांकन संख्या 07 दिनांक **ENDORSEMENT NO. 07 DATED** 

Whereas, the licence was valid upto 31 07 2019.

Now, consequent upon renewal, the validity of the licence given in endorsement No. 05 has been extended from First August Two Thousand and Nineteen to Thirty First July Two Thousand and Twenty.

लाइसेंस की अन्य निबन्धन व शर्ते यथावत हैं। Other terms and conditions of Licence remain the same.

भारतीय मानक ब्यूरो, भोपाल Bureau of Indian Standards, Bhopal



पता

व्यवसायिक एवं कार्यालय परिसर, दशहरा मैदान के सामने ई-5, अरेरा कालोनी, बिट्टन मार्केट, भोपाल 462 016, भारत

Commercial-cum-office Complex, E-5 Arera

Colony, Bhopal-462016

दूरभाष Phones 0755-2423452, 2423449

फैक्स Pax: 0755-2423451 ई-मेल e-mail: bplbo@bis.org.in वेब web http://www.bis.org.in

पंजीकृत पावती सूचना

हमारा संदर्भ : सी एम/एल - 8200017398

विषय : आई एस 4985 : 2000 के अनुरूप भा मा ब्यूरो प्रमाणन मुहर लाइसेंस संख्या सी एम/एल - 8200017398 प्रदान करने के संबंध/संदर्भ में।

मेसर्स वेक्टस इण्डस्ट्रीज लि.यूनिट II, प्लांट नं. 41/42, इण्डस्ट्रीयल एरिया, बामोर, जिला मुरेना 476444 ( म.प्र.)

महोदय,

आपके आवेदन के संदर्भ में हम यह सहर्ष सूचित करते हैं कि आपको अपने निम्न उत्पाद पर मानक मुहर का उपयोग करने के लिए लाइसेंस जारी करने का निर्णय लिया गया है:

उत्पाद : Unplaticized PVC Pipes for Potable Water Supplies

Nominal size,mm	Class	Typy of Ends	
90 ,110,125,160,180, 200,225 & 250	1	Plain end & Socketed end for Solvent Cement joining	
63,75, 90, 110,125,160,180,200,225 & 250	2	Plain end & Socketed end for Solvent Cement joining	
40,50,63,75, 90 , 110, 125,160,180 , 200,225 & 250	3	Plain end & Socketed end for Solvent Cement joining	
20,32,40,50, 63,75, 90, 110,125,160,180,200,225 & 250	5	Plain end & Socketed end for Solvent Cement joining	

आई. एस. : IS 4985 : 2000 ( Amendment No. 4)

आपको यह लाइसेंस इस स्पष्ट शर्त पर दिया जा रहा है कि आप उक्त भारतीय मानक के अन्रूप खरा उतरने वाले समस्त/अधिकांशं उत्पादन पर मानक मुहर लगाएँगे।

आपको प्रदान किए गए लाइसेंस का नंबर सीएम/एल - 8200017398 है जो दिनांक -02 12 2015 से लागू है तथा दिनांक- 01 12 2016 तक वैच है। आप द्वारा किए जाने वाले पत्राचार में इस लाइसेंस नंबर का उल्लेख अवश्य किया जाना चाहिए।

3.



पता

भोपाल शाखा कार्यालय।मानकलाया,ई-5 अरेरा कॉलोनी।बिटन

Address:

मार्केट|भोपाल - 462016

Mankalaya, E-5 Arera Colony Bitten Market-Bhopal | 462016

0755-2423449, 2423452, 2423454,

Phones: फैक्स Faxi

0755-2423451

ई-मेल email:

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वेब web:

http://www.bis.org.in

# लाइसेंस संख्या सी एम/एल - 8200017398 की संलग्नी ATTACHMENT TO LICENCE NO. CM/L - 8200017398

सी एम/एल संख्या CML/NO	लाइसेंसधारी का पता सहित नाम NAME OF THE LICENSEE WITH THE ADDRESS	उत्पाद का नाम NAME OF THE PRODUCT	भा मा संख्या IS NO.
8200017398	मेसर्स वैक्टस इण्डस्ट्रीज लि. युनिट ॥, प्लाट नं. 41 42, इण्डस्ट्रीयल एरिया, बामोर, जिला मुरैना - 476444 (मध्य प्रदेश)	Unplasticized PVC Pipes for Potable Water Supplies - Specification	IS 4985 : 2000
8200017398	M/s Vectus Industries Limited Unit II Plot No. 41/42, Industrial Area, Banmore, Distt : Morena Madhya Pradesh - 476444	Unplasticized PVC Pipes for Potable Water Supplies - Specification	IS 4985 : 2000

पृष्ठांकन संख्या 04 दिनांक **ENDORSEMENT NO. 04 DATED** 

Whereas, the licence was valid upto 30 06 2019.

Now, consequent upon renewal, the validity of the licence given in endorsement No. 03 has been extended from First July Two Thousand and Nineteen to Thirty June Two Thousand and Twenty.

लाइसेंस की अन्य निबन्धन व शर्ते यथावत हैं। Other terms and conditions of Licence remain the same.

> भारतीय मानक ब्यूरो, भोपाल Bureau of Indian Standards, Bhopal



भोपाल Bhopal Branch Office

पता

व्यवसायिक एवं कार्यालय परिसर, दशहरा मैदान के सामने, ई-5, अरेरा कालोनी, बिइन मार्केट,

Address: भोपाल 462 016, भारत

Commercial-cum-office Complex, E-5

Arera Colony, Bhopal-462016

दरभाष : 0755-2423449, 2423452, 2423454, 2420493,

2442550

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वेद web : http://www.bis.org.in, www.manakonline.in

## लाइसेंस संख्या सी एम/एल - 8492693 की संलग्नी

ATTACHMENT TO LICENCE NO. CM/L - 8492693

सी एम/एल संख्या CML/NO	लाइसेंसधारी का पता सहित नाम NAME OF THE LICENSEE WITH THE ADDRESS	उत्पाद का नाम NAME OF THE PRODUCT	भा मा संख्या IS NO.
8492693	मेसर्स वेक्टस इण्डस्ट्रीज लिमिटेड ( यूनिट 1 ) प्लाट नं 26 /27, इण्डिस्ट्रियल एरिया बामोर, जिला : मुरैना मध्य प्रदेश	Rotational moulded polyethylene water storage tanks	IS 12701 : 1996
8492693	Vectus Industries Ltd (Unit - 1) Plot No. 26/27, Industrial Area, Banmore, Distt: Morena, Madhya Pradesh	Rotational moulded polyethylene water storage tanks	IS 12701 : 1996

पृष्ठांकन संख्या 19 दिनांक 7 4 2019 ENDORSEMENT NO. 19 DATED 7 6 2019

Whereas, the licence was valid upto 30/06/2019.

Now, Consequent upon renewal, the validity of the licence given in endorsement No 18 has been extended from First July Two Thousand Nineteen to Thirtieth June Two Thousand Twenty.

लाइसेंस की अन्य निबन्धन व शर्ते यथावत हैं। Other terms and conditions of Licence remain the same.

्रीति भटनागर

PRITI BHATNAGAR वैज्ञानिक-ई एवं प्रमुख भारतीय मानक स्पूरो, भोपाल Bureau of Indian Standards, Bhopal



# भारतीय मानक ब्यूर **BUREAU OF INDIAN STANDARDS** भोपाल Bhopal Branch Office

पता Address: व्यवसायिक एवं कार्यालय परिसर, दशहरा मैदान के सामने ई-5, अरेरा कालोनी, बिट्टन मार्केट, भोपाल 462 016, भारत

Commercial-cum-office Complex, E-5 Arera

Bhopal-462016

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http://www.bis.org.in

पंजीकृत पावती सूचना

03.08

हमारा संदर्भ : सी एम/एल - 8200031998

दिनांक - 25=05 2016

विषय : आई एस 12818 : 2010 के अनुरूप भा मा ब्यूरो प्रमाणन मुहर लाइसेंस संख्या सी एम/एल - 8200031988 प्रदान करने के संबंध/संदर्भ में।

मेसर्स वेक्टस इण्डस्ट्रीज लि. (यूनिट 2), प्लांट नं. 41/42, इण्डस्ट्रीयल एरिया, बामोर. जिला मुरेना 476444 ( म.प्र.)

महोदय.

आपके आवेदन के संदर्भ में हम यह सहर्ष सूचित करते हैं कि आपको अपने निम्न उत्पाद पर मानक मुहर का उपयोग करने के लिए लाइसेंस जारी करने का निर्णय लिया गया है:

उत्पाद : Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tubewell

Designation	Nominal Dia. DN
CM	100, upto & including 200
CS	150 to 200

आई. एसा. : IS 12818 : 2010

- आपको यह लाइसेंस इस स्पष्ट शर्त पर दिया जा रहा है कि आप उक्त भारतीय मानक के अनुरूप खरा उतरने वाले समस्त/अधिकांश उत्पादन पर मानक मृहर लगाएँगे।
- आपको प्रदान किए गए लाइसेंस का नंबर सीएम/एल 8200031998 है जो दिनांक -17 06 2016 से लागू है तथा दिलांक- 16 06 2017 तक वैद्य है। आप द्वारा किए जाने वाले पत्राचार में इस लाइसेंस नंबर का उल्लेख अवश्य किया जाना चाहिए।
- 4. भा मा ब्यूरो (प्रमाणन) विनियम 1988 के विनियम 6 के उप विनियम (2) के अनुसार आप द्वारा 1000/- रू लाइसेंस शुल्क इस लाइसेंस की द्वितीय अनुसूची में उल्लिखित और आप द्वारा अपने पत्र दिनांक- 18/06/2016 द्वारा सहमत रूपये- 39200.00 मुहरांकन शुल्क का भुगतान लाइसेंस की वैधता अविध के लिए दिनांक- 17 06 2016 से किया जाना है। सेवा कर, जैसा उपयुक्त हो , देय होगा



भोपाल Bhopal Branch Office

Address:

भोपाल शाखा कार्यालय। मानकलाया, ई-5 अरेरा कॉलोनी,

बिटन मार्केट, भोपाल - 462016

Mankalaya, E-5 Arera Colony Bitten Market-Bhopal | 462016

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फैक्स Fax:

0755-2423451

ई-मेल e-mail: bpbo@bis.gov.in, bplbo@bis.org.in

वेब web:

http://www.bis.org.in, www.manakonline.in

# लाइसेंस संख्या सी एम/एल - 8200031998 की संलग्नी ATTACHMENT TO LICENCE NO. CM/L - 8200031998

सी एम/एल संख्या CML/NO	लाइसेंसधारी का पता सहित नाम NAME OF THE LICENSEE WITH THE ADDRESS	उत्पाद का नाम NAME OF THE PRODUCT	भा मा संख्या IS NO.
8200031998	मेसर्स वैक्टस इण्डस्ट्रीज लि. युनिट ॥, प्लाट नं. 41 42, इण्डस्ट्रीयल एरिया, बामोर, जिला मुरैना - 476444 (मध्य प्रदेश)	unplasticized PVC screen and casing pipes for bore/tubewell	IS 12818 : 2010
8200031998	M/s Vectus Industries Limited Unit II Plot No. 41/42, Industrial Area, Banmore, Distt : Morena Madhya Pradesh - 476444	unplasticized PVC screen and casing pipes for bore/tubewell	IS 12818 : 2010

पृष्ठांकन संख्या 04 दिनांक **ENDORSEMENT NO. 04 DATED** 

24/7/19

Whereas, the licence was valid up to 30 06 2019.

Now, consequent upon renewal, the validity of the licence given in endorsement No. 03 has beek extended from First July Two Thousand and Nineteen to Thirtieth June Two Thousand and Twenty.

लाइसेंस की अन्य निबन्धन व शर्ते यथावत हैं। Other terms and conditions of Licence remain the same.

> भारतीय मानक ब्यूरो, भी Bureau of Indian Standards, B



परा। भीगाव शास्त्र कार्यात्रयामानकवाया,\$-5 अपेस कार्यात्री, Address विटल मार्केट, भीगाल 462016

Mankalaya, E. S. Arera Colony Bitten Market-Bhopall 462016

दुरभाष 0755-2423449, 2423452, 2423454

Фал гах 0755-2423451

் ई-मेल e bpbo@bis.gov.in, bplbo@bis.org.in

mail

वेब web: http://www.bis.org.in, www.manakonline.in

# लाइसेंस संख्या सी एम/एल - 8200017297 की संलग्नी ATTACHMENT TO LICENCE NO. CM/L - 8200017297

सी एम/एल संख्या CML/NO	लाइसेंसधारी का पता सहित नाम NAME OF THE LICENSEE WITH THE ADDRESS	उत्पाद का नाम NAME OF THE PRODUCT	भा मा संख्या IS NO.
8200017297	मेसर्स वेक्टस इण्डस्ट्रीज लि., यूनिट II, प्लांट नं. 41/42, इण्डस्ट्रीयल एरिया, बामोर, जिला मुरेना - 476444 ( म.प्र.)	PVC-U pipes for soil and waste discharge systems for inside and outside buildings including ventilation and rainwater system	IS 13592 : 2013
8200017297	M/s Vectus Industries Limited Unit II Plot No.41/42, Industrial Area, Banmore, Distt: Morena - 476444 Madhya Pradesh	PVC-U pipes for soil and waste discharge systems for inside and outside buildings including ventilation and rainwater system	IS 13592 : 2013

पृष्ठांकन संख्या 03 दिनांक ENDORSEMENT NO. 03 DATED

Whereas, the licence was valid upto 30 06 2019.

Now, consequent upon renewal, the validity of the licence given in endorsement No. 02 has been extended from First July Two Thousand and Nineteen to Thirty June Two Thousand and Twenty.

लाइसेंस की अन्य निबन्धन व शर्ते यथावत हैं। Other terms and conditions of Licence remain the same.

> प्रीति भटनागर PRITI BHATNAGAR वैज्ञानिक-ई एवं प्रमुख भारतीय मानक ध्यूरो, भोपाल Duroau of Indian Standards, Bhopal



देहरादून शाखा कार्यालय DEHRADUN BRANCH OFFICE Address: सी-43, सेक्टर 1, डिफेंस कालोनी

देहरादून-248001 (उत्तराखंड) C-43, Sector 1, Defence Colony Dehradun-248001 (Uttrakhand)

0135-2665129

Tel-FaxNo. Email:

0135-2665272 dhbo@mail.gov.in

Web:

http://www.bis.org.in

### REGISTERED/E Mail

Our Ref: DHBO/L-3130836

Dated: 11 February 2019

Subject: Permission for Resumption of Marking

To, M/s Vectus Industries Plot No 26 & 57 Sector 2, IIE SIDCUL Haridwar-249402

Dear Sir.

This has reference to BIS Certification Marks licence No. CM/L- 3130836 held by you for use of Standard Mark on the product as per IS 15450: 2004 which is valid upto 2019-07-31 and was under stop marking w.e.f 05-12-2018.

In view of Verification of New premises and passing of the offered sample in factory testing on 31-01-2019, it has been decided to permit you to resume marking with effect from 05-02-2019. You are, therefore, permitted to mark and dispatch the material mentioned above after ensuring its conformity to the requirements of relevant Indian Standard Specification and testing as per the Scheme of Testing and Inspection (STI) given to you. You are also advised to send us your production schedule well in advance along with list of consignees regularly.

Thanking you

Your's faithfully,

Mohammad Rizwan

Sc. C-DHBO

mad. trio-



देहरादून शाखा कार्यालय DEHRADUN BRANCH OFFICE Address: सी-43, सेक्टर 1, डिफेंसकालोनी

देहरादून-248001 (उत्तराखंड) C-43, Sector 1, Defence Colony

Dehradun-248001 (Uttrakhand)

Tel- 0135-2665129

FaxNo. 0135-2665272 Email: dhbo@mail.gov.in

Web: http://www.bis.org.in

# अनुज्ञप्ति संख्यासी एम् / एल-3130836 का संलग्नक Attachment to Licence No. CM/L- 3130836

एल संख्या CM/L-		Name of the Product	भारतीय मानक संख्या Indian Standard No.
	M/s. Vectus Industries Ltd., Plot No.41-42, Industrial Area, Banmore	Polyethylene/Aluminium/Polyethylene Composite Pressure Pipes for Hot and Cold Water Supply	IS 15450 : 2004

पृष्ठांकनसंख्या 8 दिनांक Endorsement No.8 Dated

11/2/2019

फैक्ट्री के स्थानांतरण के परिणामस्वरूप, दिनांक पांच फरवरी दो हजार उन्नीस से लाइसेंस में उल्लिखित लाइसेंसधारी का पता बदल कर निम्नलिखित कर दिया गया है।

Consequent to the shifting of the factory, the address of the licensee mentioned in the Licence has been changed to as following with effect from Fifth February Two Thousand Nineteen.

M/s. Vectus Industries Ltd., Plot No.26 & 57, Sector 2, IIE, SIDCUL, Haridwar - 249402

अनुज्ञप्ति की अन्य शर्ते सामान रहेंगी। Other terms and conditions of licence remain same.

पदिभिहित प्राधिकारी के हस्ताक्षर

अनिलेश एम डेविड वैज्ञानिक-एफ एवं प्रमुख (देहरादून शाखा कार्यालय)



देहरादून शाखा कार्यालय **DEHRADUN BRANCH OFFICE**  Address: UCF Sadan, Ground Floor,

Block- D, Deep Nagar Road,

Vishnu Vihar, Dehradun - 248001

Phones: 0135-2665129 E-Mail:

dhbo@bis.gov.in

Web:

http://www.bis.org.in

GST No. 05AAATB0431G1ZH

# अनुज्ञप्ति संख्यासी एम् / एल- 3130836 का संलग्नक Attachment to Licence No. CM/L- 3130836

सी एम/ एल संख्या CM/L-No	लाइसेंसधारी का पता सहित नाम Name of the Licensee with the Factory Address	उत्पाद का नाम Name of the Product	भारतीय मानक संख्या Indian Standard No.
3130836	M/s. Vectus Industries Ltd., Plot No. 26 & 57, Sector 2, IIE, SIDCUL, Haridwar, Distt: Haridwar, Uttarakhand- 249402	Polyethylene/ Aluminium/ Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies	IS 15450 : 2004

# पृष्ठांकनसंख्या 12 दिनांक **Endorsement No. 12 Dated**

अनुज्ञप्ति 31 जुलाई 2019 तक मान्य था। Whereas, the licence was valid up to Thirty First July Two Thousand Nineteen,

अब, नवीनीकरण के परिणामस्वरुप, अनुमोदन संख्या 10 में दिए गए अनुज्ञप्ति की वैधता 01 अगस्त 2019 से 31 जुलाई 2020 तक बढ़ा दी गयी है।

Now, consequent upon renewal, the validity of the licence given in the Endorsement No.10 has been extended from First August Two Thousand Nineteen to Thirty First July Two Thousand Twenty.

अनुज्ञप्ति की अन्य शर्ते सामान रहेंगी। Other terms and conditions of licence remain same.

पदिभिहित प्राधिकारी के हस्ताक्षर

(सुधीर बिश्नोई)

वैज्ञानिक- ई



# देहरादून शाखा कार्यालय **DEHRADUN BRANCH OFFICE**

Address: UCF Sadan, Ground Floor,

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GST No. 05AAATB0431G1ZH

# पंजीकृत/पावती

हमारा संदर्भ: DHBO/CML- 3271046

1 6 JAN 2020 दिनांक:

विषय: प्रमाणन म्हरांकन संख्या सीएम/एल- 3271046 का नवीकरण

M/s. Vectus Industries Limited, Plot No. 412-414, Shri Devlopers, Industrial Estate Mahukheraganj, Kashipur, Distt- Udham Singh Nagar, Uttarakhand- 244713

# महोदय.

- 1. कृपया अपने ऑनलाइन नवीकरण आवेदन का अवलोकन करे। हमे यह जानकारी देते हुए प्रसन्नता है कि आपके प्रमाणन लायसेंस का दिनांक 01-02-2020 से 31-01-2021 तक नवीकरण हो गया है।
- 2. कृपया ध्यान दें कि यह लायसेंस उपरोक्त लिखित अवधि के बाद समाप्त हो जाएगा। अतः आपसे अनुरोध है कि आप अपना लायसेंस नवीकरण कराने के लिए आवेदन शुल्क, वार्षिक शुल्क तथा मृहरांकन शुल्क के साथ अगले नवीकरण की तिथि से कम से कम एक मास पूर्व ऑनलाइन आवेदन करें।
- 3. लायसेंस नवीनीकरण के संदर्भ में पृष्ठांकन शीट क्रमांक 09 संलग्न है | इसे कृपया अपने पास उपलब्ध मूल लायसेंस के साथ जोड़ ले।

धन्यवाद

वैज्ञानिक- सी

संलग्न: यथोक्त



# देहरादून शाखा कार्यालय DEHRADUN BRANCH OFFICE

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Web: <a href="http://www.bis.org.in">http://www.bis.org.in</a>
GST No. 05AAATB0431G1ZH

# अनुज्ञप्ति संख्यासी एम् / एल- 3271046 का संलग्नक Attachment to Licence No. CM/L- 3271046

सी एम/ एल संख्या CM/L-No	लाइसेंसधारी का पता सहित नाम Name of the Licensee with the Factory Address	उत्पाद का नाम Name of the Product	भारतीय मानक संख्या Indian Standard No.
3271046	M/s. Vectus Industries Limited, Plot No. 412-414, Shri Devlopers, Industrial Estate Mahukheraganj, Kashipur, Distt Udham Singh-Nagar, Uttarakhand- 244713	Cinormated poryvirry	IS 15778 : 2007

# पृष्ठांकनसंख्या 09 दिनांक Endorsement No 09 Dated 14.01. 2020

अनुज्ञप्ति 31 जनवरी 2020 तक मान्य था I

Whereas, the licence was valid upto Thirty First January Two Thousand Twenty.

अब, नवीनीकरण के परिणामस्वरुप, अनुमोदन संख्या 08 में दिए गए अनुज्ञप्ति की वैधता 01 फरवरी 2020 से 31 जनवरी 2021 तक बढ़ा दी गयी है I

Now, consequent upon renewal, the validity of the licence given in the Endorsement No 08 has been extended from First February Two Thousand Twenty to Thirty First January Two Thousand Twenty One.

अनुज्ञप्ति की अन्य शर्ते सामान रहेंगी।

Other terms and conditions of licence remain same.

पदभिहित प्राधिकारी के हस्ताक्षर

सुधार विश्वन

(देहरादून शाखा कार्यालय)



देहरादून शाखा कार्यालय **DEHRADUN BRANCH OFFICE**  Address:

सी-43, सेक्टर 1, डिफेंस कालोनी देहरादून- 248001 (उत्तराखंड) C-43, Sector 1, Defence Colony Dehradun-248001 (Uttrakhand)

Tel-FaxNo Email: Web:

0135-2665272 bisdbo@gmail.com http://www.bis.org.in

<u>पंजीकत</u>

हमारा संदर्भ : सीएम/एल- 3048952

08/09/2009

विषय : आई एस 15801:2008 के अनुरूप भा.मा. ब्यूरो प्रमाणन मुहर लाइसेंस संख्या सीएम/एल- 3048952 प्रदान करने के सम्बन्ध/संदर्भ में



मैसर्स वैक्टस इण्डस्ट्रीज लिमिटेड प्लाट न. 26, सैक्टर-2, सिडक्ल, हरिद्वार (उत्तराखण्ड),

महोदय,

आपके आवेदन के संदर्भ में हम यह सहर्ष सूचित करते हैं कि आपको अपने निम्न उत्पाद पर मानक म्हर का उपयोग करने के लिए लाइसेंस जारी करने का निर्णय लिया गया है :

उत्पाद: Polypropylene-Random Copolymer Pipes for hot and cold water supplies as per IS 15801:2008 using resin as per designation PP-R-P-H-N-10-35-003 for the following varities:

- i) SDR-11, Size 50 160 mm
- ii) SDR-7.4, Size 50 110 mm
- iii) SDR-6, Size 20 40 mm

आई एस : 15801:2008

- 2. आपको यह लाइसेंस इस स्पष्ट शर्त पर दिया जा रहा है कि आप उक्त भारतीय मानक के अन्रूप खरा उतरने वाले समस्त/अधिकांश उत्पादन पर मानक मृहर लगाएंगे ।
- 3. आपको प्रदान किए गए लाइसेंस का नंबर सीएम/एल- 3048952 है, जो दिनांक 07/09/2009 से लागू है तथा दिनांक 06/09/2010 तक वैध है । आप द्वारा किए जाने वाले पत्राचार में इस लाइसेंस नंबर का उल्लेख अवश्य किया जाना चाहिए ।
- 4. भा.मा. ब्यूरो (प्रमाणन) विनियम, 1988 के विनियम 6 के उप विनियम (2) के अनुसार आप द्वारा 1000/- रू. लाइसेंस शुल्क इस लाइसेंस की द्वितीय अनुसूची में उल्लिखित और आप द्वारा अपने पत्र दिनांक 23/03/2009 द्वारा सहमत रू. 125200.00 मृहरांकन शुल्क का भगतान लाइसेंस की वैधता अविध के लिए दिनांक 06/09/2010 से किया जाना है।



## देहराद्न शाखा कार्यालय DEHRADUN BRANCH OFFICE

Address: UCF Sadan, Ground Floor,

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Vishnu Vihar,

Dehradun - 248001

Phones: 7617777270, 7617777278

E-Mail:

dhbo@bis.gov.in

Web:

http://www.bis.org.in

GST No. 05AAATB0431G1ZH

## अनुज्ञप्ति संख्यासी एम् / एल- 3048952 का संलग्नक Attachment to Licence No. CM/L- 3048952

सी एम/ एल संख्या CM/L-No	लाइसेंसधारी का पता सहित नाम Name of the Licensee with the Factory Address	उत्पाद का नाम Name of the Product	भारतीय संख्या Indian St No.	
3048952	M/s. Vectus Industries Ltd., Plot No. 26 & 57, Sector 2, IIE, SIDCUL, Distt- Haridwar, Uttarakhand- 249403	Polypropylene-random copolymer pipes for hot and cold water supplies	IS 15801	: 2008

## पृष्ठांकन संख्या 14 दिनांक Endorsement No. 14 Dated 06.02.2020

अनुज्ञप्ति 31 जनवरी 2020 तक मान्य था। Whereas, the licence was valid upto Thirty First January Two Thousand Twenty,

अब, नवीनीकरण के परिणामस्वरुप, अनुमोदन संख्या 13 में दिए गए अनुज्ञप्ति की वैधता 01 फरवरी 2020 से 31 जनवरी 2021 तक बढ़ा दी गयी है।

Now, consequent upon renewal, the validity of the licence given in the Endorsement No 13 has been extended from First February Two Thousand Twenty to Thirty First January Two Thousand Twenty One.

अनुज्ञप्ति की अन्य शर्ते सामान रहेंगी। Other terms and conditions of licence remain same.

पदभिहित प्राधिकारी के हस्ताक्षर

सुधीर बिश्रॉई

वैज्ञानिक- ई एवं प्रमुख (देहरादून शाखा कार्यालय)



Address: Dehradun Branch Office- UCF Sadan,

Block-D, Ground Floor, Deep Nagar Road, Vishnu Vihar, Dehradun,

Uttarakhand-248001

Phone: 0135-2665129,2665272

Fax: 01352665272 E-Mail: dhbo@bis.gov.in

Web: www.bis.org.in, www.manakonline.in

Our Ref : DHBO/CM/L- 8300133310

Date: 2 4 SEP 2015

Subject: Grant of BIS Certification Marks Licence No. 8300133310 as per IS 15328 : 2003. -

M/s. Vectus Industries Limited,
Plot-26 & 57, Sector-2, IIE, SIDCUL,
Distt: Haridwar,
Uttarakhand- 249403

Dear Madams(s)/Sir,

With reference to your application, we are pleased to inform you that the Certification Marks Licence has been granted to you to use the Standard Mark in respect of the followings:

Product:- Unplasticized Non-Pressure Polyvinyl Chloride ( PVC -U ) Pipes for use in Underground Drainage and Sewerage Systems --

Grade/Class/Type/Variety

SN-8/SDR-34/63 mm to 250 mm, Plain and Elastomeric sealing ring joints

SN-4/SDR-41/125 mm to 250 mm, Plain and Elastomeric sealing ring joints

SN-2/SDR-51/160 mm to 250 mm, Plain and Elastomeric sealing ring joints

As per IS 15328 : 2003.

1. The licence is granted on the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards.

2. The number assigned to this licence is CM/L- 8300133310 which has been made operative from 13-09-2019 and is valid upto 12-09-2020. The licence number should invariably be referred to in your future correspondence.

According to sub-regulation (1) & (3) of Paragraph 5 of scheme I of Schedule II under Bureau of Indian Standards (Conformity of Assessment) Regulation, 2018, the annual licence fee of Rs. 1000.00 and the marking fee for use of standard mark as per Annexure-I of Scheme I of BIS (Conformity assessment) Regulation 2018 is payable by you with effect from 13-09-2019 for the period of validity of the licence licence in advance.

3. Minimum marking fee stipulated in Annexure -I of scheme I of BIS (Conformity Assessment) Regulation 2018 is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. Our Receipt No. 0083PC2019000618 dated 13-09-2019 for the licence fee and the minimum marking fee for the first operative period is already issued.

- 4. This advance minimum marking fee will be carried over to the next year on every renewal. The actual marking fee calculated on the unit rate on the production marked or the minimum marking fee, whichever is higher shall be payable by you at the time of renewal.
- 5. With a view to streamlining the reporting of quantity marked, calculation and collection of marking fee on the unit rate basis, fees will be calculated on the production marked during the first nine months of operation of the licence at the time of first renewal, and on the production marked during twelve months comprising the last three months of the previous operative year and the first nine months of the current operative year, at the time of the second and subsequent renewals. In case the licence expires, the entire production marked till the expiry date shall be taken into account for calculating the marking fee payable.
- 6. The Scheme of Inspection and Testing as specified by BIS will have to be implemented by your organization strictly and completely. This supervision of the operation of the Scheme shall be done by a person responsible for the quality control function in your organization. Kindly inform us the name and designation of the person who will be held responsible for the operation and maintenance of the Scheme. Any future change in this respect will have to be communicated by you to us as and when these take place.
- 7. We are enclosing a sheet giving the preferred dimensions of the Standard Mark to enable you to prepare the designs of the Standard Mark for marking the above product Photographic reduction in any size is permissible. This will ensure the relative proportions of the different dimensions maintained. Preferred dimensions be used as far as possible.
- 8. On commencement of marking of your product for which you are licensed, you may advertise your product with Standard Mark in various media only during the validity of your licence. The use of Standard Mark on letterheads and publicity literature will be permitted only on receipt of your assurance that in the event of cancellation or lapsing of your licence, the Standard Mark on your letterheads, publicity literatures etc. will be destroyed/obliterated.
- 9. This licence is granted for your factory situated at "Plot-26 & 57, Sector-2, IIE, SIDCUL, Distt: Haridwar, Uttarakhand- 249403", Privileges under the licence shall not be exercised by any other firm company/factory etc. This licence is not transferable in the event of shifting the manufacturing and testing equipment from the licensed premises to some other place, use of Standard Mark shall be stopped till the new premises are inspected and found to be satisfactory by us in respect of manufacturing and testing facilities available there and the address of the new premises is endorsed in the licence.
- 10. It may be noted that this licence is granted under option 2 which is subject to the condition that if samples drawn on (23-08-2019) by BIS during the verification visit before grant of licence, fail to conform to the requirements of relevant Indian Standard (in any requirement), the licence shall be put under suspension, and in case fresh sample after corrective action is not offered within one month or fresh sample fails to conform to the requirement of relevant Indian Standard, in any requirement, the licence shall be processed for cancellation.

11. The licence document in original is enclosed.

Thanking You,

(Anilesh M David) SCIENTIST-F & HEAD



## देहरादून शाखा कार्यालय

**DEHRADUN BRANCH OFFICE** 

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GST No. 05AAATB0431G1ZH

## पंजीकृत/पावती

हमारा संदर्भ: DHBO/CML-8300133310

विषय: प्रमाणन मुहरांकन संख्या सीएम/एल- 8300133310 के इंक्लूजन संदर्भ में।

- 3 MAR 2020

दिनांक:

M/S. Vectus Industries Limited, Plot-26 & 57, Sector-2 IIE SIDCUL,

Distt: Haridwar,

Uttarakhand- 249403

महोदय,

1. इंक्लूजन के संदर्भ में पृष्ठांकन शीट क्रमांक - 01 संलग्न है | इसे कृपया अपने पास उपलब्ध मूल लायसेंस के साथ जोड ले।

धन्यवाद

(मोहम्मद रिज़वान)

वैज्ञानिक- सी

संलग्न यथोक्तः



## देहरादून शाखा कार्यालय

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## अनुज्ञप्ति संख्यासी एम् / एल-8300133310 का संलग्नक Attachment to Licence No. CM/L- 8300133310

सी एम/ एल	लाइसेंसधारी का पता सहित	उत्पाद का नाम	भारतीय मानक
CM/L-No	नाम Name of the Licensee with the Factory Address	Name of the Product	संख्या Indian Standard No.
8300133310	M/S. Vectus Industries Limited, Plot-26 & 57, Sector-2 IIE SIDCUL, Distt: Haridwar, Uttarakhand- 249403	Unplasticized Non-Pressure Polyvinyl Chloride ( PVC -U ) Pipes for use in Underground Drainage and Sewerage Systems	IS 15328 : 2003

पृष्ठांकन संख्या 01 दिनांक

Endorsement No. 01 Dated 02.03.2020

## ब्यूरो द्वारा दिनाँक 02-03-2020 से अनुज्ञप्ति के स्कोप में निम्नलिखित को जोड़ने का अनुमोदन किया गया है।

The following addition in the scope of licence has been approved by the Bureau with effect from **Second March Two Thousand Twenty**.

- I. SN-8/SDR-34/63 mm to 200 mm, Solvent Cement Joint,
- II. SN-4/SDR-41/125 mm to 200 mm, Solvent Cement Joint,
- III. SN-2/SDR-51/160 mm to 200 mm, Solvent Cement Joint,
- IV. SN-8/SDR-34/315 mm, Plain and Elastomeric Sealing Ring Joint,
- V. SN-4/SDR-41/315 mm, Plain and Elastomeric Sealing Ring Joint,
- VI. SN-2/SDR-51/315 mm, Plain and Elastomeric Sealing Ring Joint,

अनुज्ञप्ति की अन्य शर्ते सामान रहेंगी।

Other terms and conditions of licence remain same.

पदिभिहित प्राधिकारी के हस्ताक्षर

सुधीर बिश्नीई

वैज्ञानिक- ई एवं प्रमुख

(देहरादून शाखा कार्यालय)



भोपाल Bhopal Branch Office

पता Address: ई-5, अरेरा कॉलोनी,बिटन मार्केट,भोपाल -

462016Commercial-cum-office Complex, E-5

Arera Colony, Bhopal-462016

दूरभाष Phones 0755-2423452, 2423449

फैक्स Fax: 0755-2423451

ई-मेल e-mail: <u>bpbo@bis.gov.in</u>, bplbo@bis.org.in

वेब web: http://www.bis.org.in, www.manakonline.in

पजीकृत/पावती

हमारा संदर्भ : BPLBO/L- 8200090606

दिनांक - 11/2/2020

विषय : प्रमाणन मुहर लाइसेंस संख्या सी एम/एल - 8200090606 का नवीकरण

आई एस - 14333 : 1996

मेसर्स वैक्टस इण्डस्ट्रीज लिमिटेड यूनिट - II, प्लांट नं. 41,42, इण्डस्ट्रीयल एरिया, बामोर, जिला मुरैना - 476444 (मध्य प्रदेश)

महोदय,

1. कृपया अपने नवीनीकरण के संदर्भ में भेजे गए आवेदन पत्र दिनांक 06 01 2020 का अवलोकन करें। हमें यह जानकारी देते हुए प्रसन्नता है कि आपके प्रमाणन लाइसेंस का दिनांक 01/03/2020 से 28/02/2021 तक नवीकरण हो गया है।

- 2. कृपया ध्यान दें कि यह लाइसेंस उपरोक्त लिखी अविध के बाद समाप्त हो जाएगा, अंतः आपसे अनुरोध है कि आप अपना लाइसेंस नवीनीकरण कराने के लिए आवेदन पत्र, नवीकरण आवेदन शुल्क, वार्षिक शुल्क तथा मुहरांकन शुल्क के साथ अगले नवीकरण की तिथि से कम से कम एक मास पूर्व क्षेजें।
- 3. लाइसेंस नवीनीकरण की पृष्ठांकन शीट संलग्न है। इसे कृपया आपके पास उपलब्ध मूल लाइसेंस के साथ जोड़ लें।
- 4. आपको सलाह दी जाती है कि अपना उत्पादन कार्यक्रम अग्रिम रूप से इस कार्यालय को अवश्य सूचित केरें। धन्यवाद

संलग्न : अन्लग्नक क्रंमाक 01

भवदीय

But

participation पूर्व प्रमुख Scientist F & Head अस्पतार्थ मानक खूरो, भोपाल

व्यवसायिक एवं कार्यालय परिसर, दशहरा मैदान के सामने



## भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS

भोपाल Bhopal Branch Office

पता

भोपाल शाखा कार्यालय|मानकलाया,ई-5,

Address:

अरेरा कॉलोनी|बिटन मार्केट|भोपाल - 462016

Mankaiaya, E-5 Arera Colony Bitten Market-Bhopal | 462016

दूरभाष Phones: 0755-2423449, 2423452, 2423454

फैक्स Fax:

0755-2423451

ई-मेल e-mail: bpbo@bis.gov.in, bplbo@bis.org.in

वेब web:

http://www.bis.org.in, www.manakonline.in

## लाइसेंस संख्या सी एम/एल - 8200090606 की संलग्नी

#### ATTACHMENT TO LICENCE NO. CM/L - 8200090606

सी एम/एल संख्या CML/NO	लाइसेंसधारी का पता सहित नाम NAME OF THE LICENSEE WITH THE ADDRESS	उत्पाद का नाम NAME OF THE PRODUCT	भा मा संख्या IS NO.
8200090606	वैक्टस इण्डस्ट्रीज लिमिटेड यूनिट - II, प्लांट नं. 41,42, इण्डस्ट्रीयल एरिया, बामोर, जिला मुरैना - 476444 (मध्य प्रदेश)	High Density Polyethylene Pipe for Sewerage	IS 14333 : 1996
8200090606	Vectus Industries Limited Unit - II. Plot No.41,42,Industrial Area,Banmore, Dist. Morena – 476444 Madhya Pradesh.	High Density Polyethylene Pipe for Sewerage	IS 14333 : 1996

पृष्ठांकन संख्या 01 दिनांक ENDORSEMENT NO. 01 DATED 11/2/2020

1) A

Whereas, the licence was valid upto 29 02 2020.

Now, consequent upon renewal, the validity of the licence given in first schedule of the original licence has been extended from First March Two Thousand and Twenty to Twenty Eight February Two Thousand and Twentyone.

लाइसेंस की अन्य निबन्धन व शर्ते यथावत हैं। Other terms and conditions of Licence remain the same.

भारतीय मानकः ब्यूरो, भोपाल Bureau of Indian Standard, Bhopal





## LIST OF APPROVED MATERIALS (CIVIL)

#### Note:

- Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
- The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
- Whenever the specified brand of material is not available than, the Engineer-in-charge may approve
  any material equivalent to that specified subject to proof being offered by the Contractor for its
  equivalence and its non-availability to his satisfaction,

MATERIALS: BRAND/MAKE

1	AAC Block	Aerocon, Siporex, Ultratech, Ecolite
2	AAC Block Adhesive	Ferrous crete(Ferro-1188), ARDEX ENDURA (White Star)., Ultratech (Fixed-Block)
3	Acrylic Distemper, Emulsion, Synthetic Enamel Paint and Primer.	Asian Paints, ICI Dulux, Berger, Nerolac
4	Epoxy Adhesive	FOSROC, Aquomix, Choksey, BAL-ENDURA
5	Aluminium Composite Panel	Alpolic, Aluco Bond, Reynobond, Euro bond, Alstrong
6	Aluminium Extrusions	Hindalco, Indalco, Jindal
7	Aluminum Sections	Jindal, Hindalco, Indalco
8	Annealed Float Glass	Saint Gobain, Modi Guard, Asahi
9	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum
10	Calcium Silicate Board / Tiles	Aerolite, Hilux, Starpan
11	CC Pavers	Nitco, Bharat Regency, Hindustan, Ultra, KJS Concrete, Duracrete, Dalal Tiles
12	Centrifugally Cast Iron Pipe & Fittings	NECO,SKF, BIC, RIF, KAPILANSH, HIF
13	Ceramic Tiles	Kajaria, Somany, Nitco, Orient Bell, Johnson
14	Chequered / Tactile Tiles	Dura, Unistone, Eurocon, Modern
15	CI Manhole Cover	BIC, SKF, NICO, Hepco, Kapilansh, RIF
16	CI Double flanged non-return valves	Kirloskar, Sant, Kartar
17	CP fittings	Jaquar, Parryware, Grohe, Kohler, Somany, Hindware, Marc, Roca
18	CPVC Pipes & Fittings (For Hot & Cold)	Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS
19	Curtain Carrier / Drapery Rod	Marvel, Vista levlor, Johnson.
20	Dash fastener, Expansion Bolt	Hilti, Bosch Fischer
21	Hydraulic Door closer, Floor springs	Dorma, Hardwyn, Hettich, Hafele
22	Ductile Iron Pipe (Water Supply)	Electro steel, Kesso, KDUPL, Electro Spun
23	EPDM Gasket	Hanu, Anand, Lescuyer
24	GRC Tile	Unistone, Eurocon, Dazzle
25	Epoxy Grouting Compound	Pidilite, Ferrous Crete(Ferro-102), MYK, LATICRETE
26	Epoxy Primer & Paints	Berger, Pidilite, CICO, BASF, SIKA
27	Fire Check door	Navair, Godrej, Shakti
28	Float Glass Mirror	Modi Float, Saint Gobain, Asahi
29	Flush Doors (ISI Mark only)	Century, Kitlam, Archid, A-1 Teak Products - Indore, Greenply
30	Friction Stay	Earl-Bihari, Ebco, Hettich
31	Galvanized/Stainless Steel Anchor Fasteners	Shakti, Arrow, Hilti, Fischer
32	Grass Pavers	Unistone, Ultra, Hindustan, KK, KJS Concrete
33	GI Pipe & fittings	Tata, Zenith, Jindal, Prakash Surya, Swastik
34	GI Sheet	Sail, TATA or equivalent
35	Gun Metal Gate Valve	Zoloto, Leader, AUDCO, SANT
36	Glass Mosaic Tile	Bisazza, Italia, Palladio, Mridul





	TERIALS:	BRAND/MAKE  Porel Consum India Consum St. Cohoin
37	Gypsum Board (False Ceiling) Hardener	Boral Gypsum, India Gypsum, St. Gobain Hardcrete of Snowcem India, Pidilite, CICO.
_	HDPE Pipes	
39		VECTUS, Emco, Polyfins, Pioneer, Plyfab
40	Jet Assembly for EWC/Health Faucet Kitchen loft tank	Parryware , Jaquar, Grohe, Kohler, Marc Sintex, Tirupati Structurals Ltd, KMS Plast world P.Ltd. Planet Plastics,
- 4	277577 7756471	Sri Kamakshi Traders, Sreyah Novel InC.
42	Laminate and Veneers	Merino, Greenlam, Formica, Kitlam, Durian, Ventura
43	Locks / Latch	Godrej, Harrision, Plaza, Dorma, Yale
44	Marine Plywood / BWP Ply	Duro, Century, Greenlam
45	Melamine Polish	Asian Paints, Pidilite, ICI Dulux, Burger
46	Metal False Ceiling	Nitobond, Armstrong, Trac, Durlum, Lafarge, Anutone
47	Mineral Fibre Ceiling	Armstrong, Nitobond, Daiken, Hunter Douglas, Anutone
48	M.S. Pipe (Railing)	Jindal, Tata, RINL, Prakash Surya
49	Multicoat Synthetic Plaster/ Textured Exterior wall paint	Spectrum, Heritage, Ultratech
50	Paver Blocks	Nitco, Kajaria, Johnson, Super
51	Plywood,	Greenply, Century, Duro
52	Polycarbonate Sheet	Danpalon, Bayer, Skyarch, Macrolux
53	Polysulphide / Silicon Sealent	Pidilite, Fosroc, Tuffseal, Chouksey Chemicals
54	POP (Plaster of paris)	JK, Laxmi, Sriram Nirman, Sakarni
55	PPR Pipes	SFMC, SAFE, Poineer Industries
56	Precast CC interlocking Tiles	Hindustan, Paver India, KK
57	Precoatd Profile Sheet	Tata, Bhushan or equivalent
58	Pre-laminated Particle Board	Ecoboard, Action-Tesa, Duro, Century Ply.
59	PTMT Fittings	Prayag, Polytuf, Pearl, Millennium
60	PVC Cistern	Steelbird, Jindal, Seabird, Prayag
61	PVC Connection Pipe	Supreme, Prince, Finolex
62	PVC Rain Water Pipe & Fitting	Finolax, Kisan, Kasta, Supreme, Astral, Prince
63	Ready Mix Concrete (RMC)	Lafarge, Alchon, ACC, L&T, Grasim, Ultratech
64	PVC Shutter	Rajshri, Sintex Polygreen
65	PVC Water storage Tank (Only ISI)	VECTUS, Water well, Plasto, Polycon, Sintex
66	Sluice Valve	Kirloskar, Venus, Kalpana, SANT, KARTAR
67	Solid PVC frames and shutters	Polygreen, Rajshri, Plastogreen
68	Stainless Steel	Jindal, Salem or equivalent
69	Stainless steel Sink with or without Draining board.	Nirali, Hindware, Frankee, Neelkanth, Jaquar
70	Stainless steel Door/Window fittings & Fixtures	Dorma, Ozone, D.Line, Hettich, Kich
71	Structural steel section	TATA, SAIL, RINL, Jindal
72	Super plasticizer / admixture	Sika, Fosroc, Chouksey Chemicals, BASF
73	Tensile Fabric	Bluestone, Encon, Structure Flex
74	Tile Adhesive	Ferrous Crete(Ferro-1122), Ardex Endura (Gold Star), PIDILITE (Fevimate XL), WEABR(Saint-Gobin) Sika, Thermoshield, Vamorganic Somany
75	Towel Ring/Towel Rod/Towel Rack	Mare, Jaquar, Grohe, Kohler
76	UPVC Pipes & Fittings	Astral Flowguard, Ashirvad, Prince, Supreme, Finolex, VECTUS
77	Vitreous China Sanitary ware, Fittings & Fixtures	Hindware, Parryware, Jaquar, Somany, Roca, Cera
78	Vitrified Tile	Johnson - Marbonite, Somany, Kajaria, Orient Bell, NITCO
79	Wall Putty	JK, BIRLA, SARAPUTTY
80	Waste Pipe	Kamal, Viking, Jaquar
81	Water Proofing Compound (Liquid)	Pidilite, Cico, Impermo
82	White Cement	JK White, Birla White, Grasim



## ANDHRA PRADESH TOWNSHIP & INFRASTRUCTURE DEVELOPMENT CORPORATION 1st Floor, Old Military Canteen, Syamalanagar, Guntur Circle.

FROM:

M.Ch. Koteswara Rao, Dy.Chief Technical Officer, APTIDCO, Guntur Circle. TO:

M/s Larsen & Toubro Ltd, Cyber Gateway, B-block, Wings-1, 1<sup>st</sup> floor, Madhapur,

Hyderabad-500081.

#### Lr.No.223/SE-GNT/APTIDCO/2017-18, Dated:01-11-2018

Sir.

**Sub:**-APTIDCO-Guntur Circle- Request for Approval of Material Samples for construction of EWS Unit under PMAY-APTIDCO Phase-II & III of Krishna District-Reg.

Ref:-1.Memo No.General/HFA/APTIDCO/2017-18 Dated:28-12-2017 of Principal Chief Technical Officer, APTIDCO, Vijayawada.

- 2.Lol No.40/Krishna District/HFA/Phase II/CTO-II/APTIDCO/2017-18 Dt:15-02-2018.
- 3.Contract Agreement No.03/CTO.II/APTIDCO/2017-18 Dt.28-02-2018
- 4.Lr.No.40/Bal.Kri/KFA/CTO-II/APTIDCO/2018, Dt.14-09-2018
- 5.L&TCONS/APTIDCO/KRISHNA DT/059 Dated:31-10-2018 of L&T Constructions, Krishna District.

\*\*\*

M/s Vectus Industries Limited, approached us vide their reference 5th cited for approval of utilization of their (VECTUS Make) ISI Brand of CPVC & UPVC SWR Type-A&B Pipes & Fitting Accessories in the construction of ULB's at Krishna District. The same were verified from their Company Profile submitted and found satisfactory for use in the DUs under construction.

You are here by advised to consider the ISI Brand of CPVC & UPVC SWR Type-A&B Pipes & Fitting Accessories (Brand VECTUS) as per the agreement and your requirement subject to the fulfillment of ISI standards and Test Certificates submitted by the manufacturer.

Yours faithfully,

Dy.Chief Technical Officer, APTIDCO, Guntur Circle.

Copy to Project Officer, Krishna District with a request to allow only after satisfying 3rd party tests.

Copy to M/s Vectus Industries Limited for favour of information.

## LIST OF APPROVED MAKES/BRANDS

PLUMBING & SANITARY

S. No	Material	A	pproved Make	s/Brands
1.	G.I / M. S Pipe	Tata	Jindal (Hisar)	Surya Prakash
	e veni	Unik	KS	Zoloto
2.	G. I Fittings	R-Brand	Surya	
3.	SS Pipes	Jindal	Tata	VIGA
	amenda V	Reliance	Jain Irrigation	Oriplast
4.	HDPE Pipes	Vertex	West Well	Supreme
		Vectus		
5.	DI Pipes	Electrost eel	Jindal	Tata Ductura
6.	DI Fittings	Kartar	Electrosteel	Kalinga
7.	CI Fittings	Neel	Kartar	Electrosteel
8.	CI Double flanged sluice	Kirloska r	Sondhi	Kejriwal
	valve	IVC		
0	Float Walson	IVC	Leader	Zoloto
9.	Float Valve	KSB	CSA	
J. A.		Astral	Supreme	Finolex
10.	UPVC Pipe and Fittings	Prince	AKG	Surya Prakash
11.	Centrifugally Cast (Spun) Iron Pipes & Fittings	NECO	SKF	HEPCO
12.	Centrifugally Cast (Spun) Iron (Class LA) Pipes	NECO	Electro Steel	TATA
13.	Centrifugally Cast (Spun) Ductile Iron Pipes & Fittings	Electro Steel	Jindal (Hissar)	Kalinga
14.	C. I Manhole covers, Frames & GI Gratings	NECO	SKF	BIC
45	SFRC Manhole covers &	KK	OCR	PARGATI
15.	gratings	T-CON		
16.	RCC Manhole covers & frames	KK Manhol e	Grating Co. (P) Ltd	ACCURATE BUILDCON
17.	Gun Metal Valves, Globes	Kartar	Castle	Zoloto
-/ -		Jaquar	Kohler	Parryware
18.	CP Brass Fittings	Hindwa re	Grohe	
19.	Sanitary Fittings & Accessories	Hindwa re (Italian collectio n)	Kohler	ROCA
		Duravit	PARRYWA RE	CERA

CONTRACTOR

Chief Engineer (H&B) APCRDA, VIJAYAWADA

Sensitivity LNT Construction Internal Use

S. No	Material	A	approved Make	es/Brands
20.	Air purifier container	EURON ICS	UTEC	JAQUAR
	And Share	Prima	Zoloto	Leader
21.	Water Meter	Capstan	Sant	
13.	Sec. 3 - 10 8 70 2 8 2 1	Zoloto	Sant	L&K
22.	Brass Stop & Bib Cock	Leader	Astral	
		AKG	Supreme	Finolex
23.	PVC Pipe & Fittings	Surya Prakash	Vectus	Prince
		AKG	Astral	Supreme
24.	CPVC Pipes & Fittings	Finolex	Surya Prakash	Vectus
- 100	Non Return Valve (Check	Zoloto	Sant	Leader
25.	valve) 1/2 " to 11/4"	AIP	SKS	
26.	Brass Ferrules	Dhawan Sanitary Udyog	Kalsi	Annapurna
		SINTEX	POLYCON	SPL
27.	Polythylene water storage tank	VECTU S		
28.	Insulation for hot water pipes	KAIFLE X	ARMAFLEX	CAREFLEX
		Lloyd		
29.	Insulation for external /	KAIFLE	ARMAFLEX	CAREFLEX
-/-	exposed hot water pipes	X	THUM II ELEV	
30.	Pipe protection for external	PYPKO	ARMAFLEX	MAKPOLYKO
,,,,	water supply pipes	TE	THUM I LL	TE
31.	Stainless Steel Sink	Neelkan th	Nirali	Jayna
		Cera		
32.	Stone ware pipes	Perfect	Hind	Burn
-	Come time paper	RK		
33.	Plastic Encapsulated Foot Rest	KGM	KK	
34.	Gully Traps	Perfect	Hind	Burn
74.	Guily Haps	RK		
		Lakshmi	Sood & Sood	Jain & Co.
35.	RCC Pipes (NP-2)	Pragati Concret e		
36.	Atactic Polypropylene	STP Pidilite	HTL	Hydro Tech
37.	C. P Waste, Spreaders, Urinal Flush pipes	Jaquar	Parko	Hindware
38.	CI Double flanged sluice valve	KRILOS KAR	LEADER	SANT
39.	Pressure reducing valve	ZOLOT	TIMME	SKS

CONTRACTOR

Chief Engineer (H&B) APCRDA, VIJAYAWADA

Sensitivity LNT Construction Internal Use

No. 926 /HC (Q.C.) Unit Office of the Housing Commissioner. Gujarat Housing Board, Pragatinagar, Ahemedabad-380013 Date: - 20

## OFFICE MEMORANDUM

Sub;-Registration for approval of "VECTUS" Brand for CPVC, UPVC and SWR Pipes & Pittings of VECTUS INDUSTRIES LIMITED for G.H.B Project.

With reference to your application as under, I am to state that your application has been carefully consider and it has been decided to place on list of approval "VECTUS" Brand for UPVC / CPVC/SWR pipes & Fittings of VECTUS INDUSTRIES LIMITED for ongoing

The manufacturer has to carry out inspection and testing of product in accordance with relevant BIS provisions and shall supply the manufacture's test certificate with each consignment. The approval does not however absolve the Executive / Supervisory staff from the responsibility for using prescribed quality products.

To place on approval list does not guarantee to recommend your Brands for purchasing. The G.H.B. will only on list your brands name in tender documents as Registered Manufacturer of UPVC / CPVC/SWR pipes & Fittings.

F

Chief Engineer Gujarat Housing Board Ahmedabad.

To.

VECTUS INDUSTRIES LIMITED B/508, Dev. Aurum, Anand Nagar Cross Road, Prahlad Nagar Road, Ahmedabad.380014 Mo.9687685001

Copy to Supdt.Eng. (P-1/2), S.E (Q/C) G.H.B, A 'bad for information and necessary action. Copy to Executive Engineer, G.H.B- Ahmadabad/Vadodara/Surat/Rajkot/ planning for information and necessary action.



## M.P.HOUSING & INFRASTRUCTURE DEVELOPMENT BOARD PARYAWAS BHAWAN MOTHER TERASA MARG, BHOPAL

Circular No. 97 Dated 16/05/2019

## VECTUS INDUSTRIES LIMITED, 41/42 Industrail Area Banmore, District Morena (MP).

The product is approved of VECTUS MAKE PRIDUCTS- PVC SWR Drainage Pipes (as per IS-13592) & SWR Fittings (as per IS-14375), CPVC Pipes (as per IS-15778), ASTM (D 1785), PPR Pipes, Vectus water tanks & fittings (as per IS-15801), Blow Moulded Tanks and Rotational Moulded (IS-12701:1996) Water Tanks for use on board's works for a period of Two years from the date of issue of this circular.

The executive staff is directed to report the performance of the product to this office.

(S.K. Mehar)

Addl. Housing Commissioner, M.P.H.& I. Dev. Board Bhopal Bhopal, DT 16 / 05/2019

Endt. No. 629 /MPHB/

- 1. The Addl.Housing Commissioner, 1/2 M.P.H.&I.Dev.Board, H.O. Bhopal.
- 2. The Chief Architect, M.P.H.& I. Dev. Board, H.O. Bhopal.
- 3. The Dy. Housing Commissioner, 1/2 M.P.H.& I.Dev. Board, H.O. Bhopal.
- 4. The Dy. Housing Commissioner, M.P.H.& I. Dev. Board, Circle, 1 & 2 Bhopal / Indore/Gwalior / Ujjain/ Sagar/ Jabalpur/ Rewa.
- The Executive Engineer, , M.P.H.& I. Dev. Board Dn. 1-2-3-4-5-& 6 Bhopal/ Hoshangabad / Sagar/Damoh/Gwalior1-2/ Morena / Guna / Indore / Project Indore / Dhar / Khandwa / Ujjain / Ratlam / Jabalpur 1-2 / Balaghat / Katni / Chhindwara / Rewa / Satna / Singroli / Shahdol.

6. VECTUS INDUSTRIES LIMITED, 41/42 Industrail Area Banmore, District Morena (MP).

Addl. Housing Commissioner MP H& L Dev. Board Bhopal



## Shah Technical Consultants Private Limited

Grontmij & DRA

IN ASSOCIATION WITH

## Grontmij A/S and DRA Consultants Pvt. Ltd.

Program Management, Design & Construction Supervision Consultancy Services for Rajasthan Urban Sector Development Program - ADB Loan No. 3183-IND

Address: Transit Hostel, Opp-JVVNL Office, Civil Lines Tonk

Tel.: 01432-244115

Email: tonk.pmdsc@rusdp.com

Ref.: STC/RUSDP/TONK/ 517-

Date: 24.01.2017

To

The Project Director
Tonk Water Supply Limited
Plot No.15, Ground Floor, Captain Colony
Tonk, (Raj)

**Project:** Construction of Work of water supply distribution network improvement with house service connections for Non Revenue water reduction and continuous water supply and providing sewer network with house connections, construction of STP & allied works & operation service of the entire systems for 10 years at Tonk (RUSDP/Tonk/01)

Sub: Approval to vendor, M/s Vectus Industries Limited for the supply of HDPE manhole Ref: Your office letter no. TWSL/TONK-WSP/001/2016-17/675 dated, 11<sup>th</sup> Jan-2017

Sir,

It is to inform that you had submitted the Vendor Credential of M/s Vectus Industries Limited for the supply of HDPE manhole vide letter under reference. The same has been reviewed and approved.

The Vendor and Product detail is mentioned in the following table

S.NO	Vendor Name& Address	Product
1.	M/s Vectus Industries Limited Plot No. 98/99 A, 1 <sup>st</sup> stage, Vasanthanarasapura Indl. Area, Nagenahalli, Village Kora Hoblii, Tumkur-572138, karnataka	HDPE Manhole

You are required to follow the Project Specifications and details given in the BOQ for the product. Also submit and take approval of Data Sheet and QAP before procurement. Approval shall not relieve the Contractor from any obligation or responsibility as specified in clause 5.2 of GCC.

Yours Sincerely

For Shah Technical Consultants Pvt. Ltd (Consortium)

Ulhas Deshmukh

Employer's Representative

PMDSC-Tonk

Copy to:-

1. S.E, PIU-RUSDP, Tonk

2. Team Leader, PMDSC Jaipur.

Mary State

Tele: (033) 22625368 (Civ) 6647 (Army)

136001/31/Gen/ \(\sigma\) /Engrs/E2W

ADG (NEI), C/o CCE (Army) No 3, Narangi

CE Kolkata Zone

CE Siliguri Zone

CE Shillong Zone

CE (AF) Shillong Zone

CE (Navy) Vizag

REGD BY SDS / POST

Headquarters Eastern Command Engrs Branch PIN-908542 C/o 99 APO

Apr 2019

#### APPROVAL OF PRODUCT

CCE (Army) No 1, Dinjan

CCE (Army) No 2, Misamari

CCE (Army) No 3, Narangi

CCE (NEP) (AF), Chabua

- 1. M/s Vectus Industries Limited had approached this HQ for approval of their product i.e. VECTUS Brand PPR, AGRI, SWR, CPVC, Composite Pipes & Fittings and Water Storage Tan.
- 2. Approval of CMPT Committee-II constituted at this HQ in terms of E-in-C's Branch policy letter No A/37696/12-114/Pol/E2W (PPC) dated 05 Jun 15 and A/37696/12-114/Pol/ E2W (PPC) dt 11 Sep 18 is hereby accorded for use of the following products in MES works for period of two years i.e. upto 23 Apr 2021:-
  - (a) VECTUS Brand PPR, AGRI, SWR, CPVC, Composite Pipes Group & Fittings and Water Storage Tan
- 3. Further continuation of the product will be decided thereafter, on the basis of the mandatory feedback / performance report submitted by Zonal Chief Engineers and CMPT-I Proceedings. In case anyone using the product notices any defect / discrepancy, the same will be reported immediately without waiting for the expiry of the period of two years.
- 4. The approval does not absolve the executive / supervisory staff from their responsibility for using correct quality product. It is only after they are satisfied about the quality and the performance, the product will be used. Mandatory checks about the quality will be carried out as laid down and the records of the same maintained.
- 5. Specification / details of the product like drawings, samples etc. can be obtained from the manufacturer at the address given below. Zonal CEs are requested to ensure that only approved product by CMPT II and CMPT III are included in tender documents / zonal specifications.
- 6. The firm is required to give feedback on sales / supply of approved items to MES contractors / formation / units on six monthly basis as per format below:-

S No	Name of Product	Supply to MES Contractors / Formations / Units	Location / Station	Date of Supply	Quantity Supplied	Amount (₹)	Supply Order No	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)

Regd Office: Mis Vectus Industries Limited 262, Jiwaji Nagar Thatipur Gwalior – 474 011 (MP)

Contact Person

Mr. Kamal Vats (9811109118)

(SK Singh) Col Col (Wks)

For Chief Engineer

Copy to:-

E2W (Design) Sub Dte
Dte of Wks, E-in-C's Branch
IHQ of MoD (Army)
Kahsmir House, Rajaji Marg
New Delhi – 110 011

M/s Vectus Industries Limited 262, Jiwaji Nagar Thatipur Gwalior – 474 011 (MP)

## PARTICULAR SPECIFICATION (CONTD)

APPENDIX 'A'

## LIST OF PRODUCTS WHICH ARE GENERALLY SUPERIOR IN PERFORMANCE

S.No.	List of products	Name manufacturers/Brand
1.	PP-R pipes and fittings	(i) SFMC, (ii) RELIANCE, (iii) VECTOUS,
2.	GI pipes and fittings (ISI Marked)	(i) Tata, (ii) Swastik, (iii) Jindal, (iv) Prakash Surya
3.	Bathroom fitting, CP cast copper alloy fancy type bib taps, stop valves and pillar taps	(i) GEM (ii) JAQUAR (iii) MARC (iv) DRIPLESS (v) SEICO (vi) SOMA (vii) PARCO (viii) LEARDER (Ix) JINZAL (x) PRAYAG (xi) PARYWARE (xii) ROMS
4.	Gun metal Gate valve	(i) Newage, (ii) Vijay (iii) Minimax, (iv) Getec , (v) BIR,
5.	Utility fittings	(i) Sparko (ii) Evershine (iii) Prakash
6.	PVC flushing cistern (ISI Marked	(i) Commander (Water Bird) (ii) CERA (iii) Prayag (iv) Parry ware (Simline) (v) Speed Flo (vi) M/S Johnson Peddar Pvt Ltd Indore
7	Water meter	Anand Asahi, Kirloskar, Kaycee Dasmesh & Capstan.
8	Ductile Iron Pipes & Fittings	Electrosteel Casting Ltd, Jindal Saw Ltd, TATA(Tisco)
09	Rubber Gasket Joint for DI Spigot & Socket Pipe	Electrosteel, Kesoram, Kallinga, Kejrawal or Approved By GE confirming to IS 12820-1989
10.	Paints	<ul> <li>(i) Berger Paints (Luxol HI Gloss)</li> <li>(ii) Joenson &amp; Jicholson paints Ltd (Borolac)</li> <li>(iii) Goodlass &amp; Nerolac paint (Nerolac Full Gloss)</li> <li>(iv) Shalimar paint (Superlac)</li> <li>(v) Asian paints (Apcolite)</li> <li>(vi) ICI paint (Dulux Gloss)</li> <li>(vii) Rainbow paints &amp; Chemicals Pvt Ltd. Jodhpur</li> </ul>
11.	Cement Base paint	(i) Super Snowcem (ii) Duracem (iii) Accrocem
12.	Oil Bound Distemper/Acryylic, Oil emulsion and dry type	(i) Berger (Bison Super (ii) Jenson & Nichlson(Jensoline Acrylic) (iii) Goodlass & Nerolac(Super acrylc) (iv) Asian (Tractor Acrylic) (v) Shalimar paints(No1 Premium Acrylic) (vi) Nerolac paints

Signature of Contractor

Accepting officer

-	CCE(Army) No 2/02 of 2015-20	16 A	ppendix 'C'
	PARTICULAR SPECIFICA	TIONS (Contd)	Group 2
	Product	Gloup	4
	1 Todaes	3	
	2		
	ROAD FURNITURE	m oM	(i) Greenlite
86.	Cat Eyes/Studs (Metal/Plastic)	(i) 3M (ii) Dark Eye	(ii) Ace
	/Rumble Strips/SpeedBreakers	(iii) Sinor Infrastructure	(iii) Trafitronics
		(III) SILIOI IIII	(iv) Lion
			(v) Automat
			(i) Greenlite
87.	Delineators/Road Barriers	(i) 3M (ii) Sinor Infrastructure	(ii) Ace
		(ii) Sinor Illiada desa	(iii) Trafitronics
		(iii) Dark Eye	(iv) Lion
		*	(v) Automat
	pt	ю.	(i) Greenlite
88.	Road Signage	(i) 3M	(ii) Ace
	•	(ii) Sinor Infrastructure	(iii) Trafitronics
		(iii) Dark Eye	(iv) Lion
	- 16		(v) Automat
			(i) Rotax
89.	HDPE/LDPE WATER TANK	(i) Sintex	(ii) Polywell
£:		(ii) Polycon /	(iii) SPL
,		(iii) Oriplast	(iv) Nikanth
			(IV) MINATIUT
Q.	SEWAGE DISPOSAL		
90.	HDPE Pipes for Sewerage	(i) Jain irrigation	(i) any othe ISI marked
		(ii) Kisan ii) Supreme	makes
			ear or a seas of a seas
91.	RCC Pipes (NP2)		(i) Any ISI marked
			makes.
R.	MISCELLANEOUS ITEMS		
92.	CI centrigally cast (Spun) pipes	(i) Neco Centri	(i) Singhal Iron Foundry
	& fittings	V(ii) BIC	
		(iii) Electro steel	1
		(iv) AIC	*
•	•	(v) PIC	
93.	PVC Soil/Waste/Rain Water	(i) Jain Irrigation	(i) Tusker
	(SWR) pipes and fittings	(ii) Kisan	(ii) King
		(iii) Supreme	(iii) Reliance
		(iv) Prince	
		(v) Anant	
94.	CPVC/UPVC Pipes and Fittings	(i) Astral	(i) Prime
	(Water & Sewerage)	(ii) Ashirwad Flowguard	(ii) Supreme
		(iii) Kisan	(iii) Prince
		(iv) Reliance	(iv) Vectus
	1 ^		
	1 (1) 0 0 0	A STATE OF THE STA	Ora

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Contd.../-

CA No : CCE(Army) No 2/02 of 2015-2016 Serial Page No. 367 PARTICULAR SPECIFICATIONS (Contd....) Appendix 'C' Product Ser Group 1 Group 2 No 2 1 3 4 HDPE **Pipes** and fittings 95. (i) Kisan (i) Orient (Water) (ii) Jain irrigation (ii) kamal (iii) Supreme (iii) Vectus (iv) Prince (iv) D-Rex Polyextrusion Ltd 96. Brass Ball (Float) Valves (i) Leader (i) Kingston (ii) Prayag (iiii) Crescent (iv) BIR (i) Singhal Iron Foundry 97. CI manhole Covers (i) AIC (ii) PIC S, E/M RELATED PRODUCTS (LT WIRES & CABLES) (i) Indo American 98. (i) HPL India Ltd PVC Insulated cable upto 1100 Electricals Ltd volts copper/Aluminium (ii) Havells India Ltd (ii) Plaza conductor sheathed/ (iii) RR Kabel Ltd unsheathed asper IS 694:1990 (iii) Mescab (iv) Finolex (iv) Polycab (v) Nicco (v) KEI (i) Ravin Cables Ltd **PVC** (i) HPL India Ltd insulated PVC/XLPE 99. (ii) Eon Electric Ltd duty (ii) Havells India Ltd sheathed heavy (iii) Crystal Cable cables armoured/unarmoured (iii) Gloster Cables Ltd volts, Industries 1100 upto (iv) KEL Industries Ltd Aluminium/Copper conductors, (iv) Mescab solid/stranded as per IS 1554 (v) Polycab Pt1: 1998 & IS 7098 Pt1:1988 (i) Crystal Cable (i) Havells India Ltd HT XLPE CABLES 100. Industries Ltd (ii) Gloster Cables Ltd (ii) Ravin Cable Ltd (iii) KEI Industries Ltd (iii) Polycab (iv) Asian (RPG) (v) CCI (i) Crystal cable (i) Ravin Cables Ltd Other cat of Cables/ABC Cable Industries Ltd 101. PIPES CI, DI & GI PIPES (i) Lanco T. (i) Electosteel (ii) Kejriwal CI Pipes 102. (ii) Kesoram (iii) Tisco (i) Lanco Industries Ltd (i) Rashmi Metalic Ltd DI Pipes with ISI Marks in ii) Electrothem (ii) Jindal Saw Ltd 103. range of 80mm to 1000mm (iii) NECO (iii) Electrosteel Casting Ltd (Except DN 125mm & 750mm) of class K7, K8 & K9 conforming (iv) Tata Metaliks to IS 8329/2000 (i) Zenith (i) Surya Roshni Ltd pipes/GI Pipes/ (ii) Bansal MS ERW (ii) Tata 104. (iii) Swastik **Fittings** (iii) Jindal Steel (iv) BST (iv) Prakash Contd.../-

CA No : CCE(Army) No 2/02 of 2015-2016

Serial Page No. 368

Ser	Product	CATIONS (Contd) A	Group 2
No	1.10-5		4
-1	2	3	1
U.	PVC, UPVC & HDPE PIPES &	FITTINGS	(i) Jain Irrigation
105.	PVC Pipes & fittings	(i) Kisan Moouldings Limited (ii) Ori-Plast (iii) Supreme (iv) Prince (v) Finolex	Systems Ltd (ii) Tripati (iii) Dutron
106.	UPVC/CPVC/RWP	(i) Ori-past (ii) Supreme (iii) Prince (iv) Finolex	(i) Dinesh Irrigation (ii) Tripati (iii) Dutron
107.	UPVC Casing for Bore Well Pipes	in the Ideas I imited	
108.	HDPE Pipes & Fittings	(i) Kisan Mouldings Limited	(i) Jain Irrigation Sysem Ltd
109.	SWR Pipes	(i) Kisan Mouldings Limited	(i) Jain Irrigation Systems Ltd
110.	PPR Pipes & Fittings	(i) Sfmc	(i) Savoir-Faire —
	· · · · · · · · · · · · · · · · · · ·	(ii) Reliance	Manufaturing Co Pvt Ltd
		(iii) Vectus	(ii) Prince
			(iii) Fusion
111.	OTHER CAT OF PIPES  Composite Pipes/ASTM  Pumbing Pipes/Summersible	(ii) Jain Irregation Systems Ltd	(i) Any Make ISI marked
111.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold		(i) Any Make ISI marked
111.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd	
111.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd	(i) AKG
111.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd (i) Tata (ii) Jindal	(i) AKG (ii) Prakash
111.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd (i) Tata (ii) Jindal (iii) Kalinga	(i) AKG
111. 1 12.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC	(i) AKG (ii) Prakash (iii) Steel Kraft
111. 1 12.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince
111. 1 12.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza
(11. ( 1 (12.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza (iii) AKG
(111. ( 1 ( 112. (	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza (iii) AKG
111. 112. (1	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold	(i) AKG (ii) Prakash (iii) Steel Kraft  (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd
111. 112. (1	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast	(i) AKG (ii) Prakash (iii) Steel Kraft  (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince
111. 12. (13.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza
111. 12. (13. C	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Kalinga	(i) AKG (ii) Prakash (iii) Steel Kraft  (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza (iii) AKG
111	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping  ght fitting /Lamps	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (ii) Finolex (iii) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Finolex (iii) Finolex (iii) Finolex (iii) Kalinga (i) Bajaj	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza
111	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping  ght fitting /Lamps ame Proof fittings	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (ii) Finolex (iii) Finolex (iii) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Finolex (iii) Kalinga (i) Bajaj (ii) Crompton Greaves	(i) AKG (ii) Prakash (iii) Steel Kraft  (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza (iii) AKG
111. 12. (13. C) 13. C) 14. P' 15. <u>Lic</u>	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping  and fitting /Lamps ame Proof fittings	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Sudhir	(i) AKG (ii) Prakash (iii) Steel Kraft  (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd  (i) Prince (ii) Plaza (iii) AKG (ii) AKG (ii) AKG (ii) Atlas (ii) Baliga
111. 12. (13. C) 4. P' 5. <u>Lie</u> Fig.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping  ght fitting /Lamps ame Proof fittings  Jorescent tube light/CFL	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Sudhir (ii) Philips	(i) AKG (ii) Prakash (iii) Steel Kraft  (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza (iii) AKG (i) Atlas (ii) Baliga (iii) Shyam
111.  12. (13. C)  4. P'  5. <u>Lie</u> Fig.	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping  ght fitting /Lamps ame Proof fittings  Jorescent tube light/CFL	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Sudhir (ii) Philips	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza (iii) AKG (i) Atlas (ii) Baliga (iii) Shyam (i) Halonix
111.  12.  13.  4. P  5. <u>Lie</u> Fig. 6. Fu	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping  ght fitting /Lamps ame Proof fittings  Iorescent tube light/CFL ings	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (ii) Finolex (iii) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Sudhir (ii) Crompton Greaves (iii) Sudhir (i) Philips (ii) Crompton Greaves	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza (iii) AKG (i) Atlas (ii) Baliga (iii) Shyam (i) Halonix (ii) Bajaj
111.  12.  13.  4. P  5. <u>Lie</u> Fig. 6. Fu	Composite Pipes/ASTM Pumbing Pipes/Summersible Pipes/Micro Irrigation Pipes Casing Pipes/Under Ground Drainge pipes Hot & Cold Water Distribution system Conduit Steel ERW  Conduit PVC  VC casing caping  ght fitting /Lamps ame Proof fittings  lorescent tube light/CFL ings	(ii) Jain Irregation Systems Ltd (iii) Savoir-Faire Manufaturing Co Pvt Ltd  (i) Tata (ii) Jindal (iii) Kalinga (iv) BEC (i) Presto Plast (ii) Finolex (iii) Indo American Electricals Ltd (iv) Kalinga Gold (i) Presto Plast (ii) Finolex (iii) Sudhir (ii) Philips	(i) AKG (ii) Prakash (iii) Steel Kraft (i) Prince (ii) Plaza (iii) AKG (iv) Richa Cables Pvt Ltd (i) Prince (ii) Plaza (iii) AKG (i) Atlas (ii) Baliga (iii) Shyam (i) Halonix

Gew

Q

Project Manager Baisakhi C/o CCE (Army) No. 2 PIN 908471 C/O 99 APO 48

8023/PMB/4 7 /E8

07 Jun 2019

M/s Mecgale Pneumatics Pvt Ltd, N-64, 74 M.I.D.C, Hingna Road, Nagpur (MH) Pin - 440016

## CA NO. CCE (ARMY) NO. 02/05 OF 2017-18 : AUGMENTATION OF CENTRAL SEWAGE SYSTEM AT MISSAMARI

Dear Sir.

- Ref your office letter No MPPL-B 1906/MES-MISSAMARI/GHY/CN-43 dt 30 May 2019.
- Product/ brand name of M/s VECTUS INDUSTRIES LIMITED is hereby approved for Pre-fabricated PE Manhole as per EN 13598-2:2009 for your further necessary action please.
- 3. As per clause 18(C) of special condition of contract agreement of the purchases voucher and test certificate for every lot be submitted at the time of receipt of consignment at site.

(Anand Singh)

Capt

ffg PM Baisakhi

Copy to :-

CCE (Army) No 2 (E-8 Section) PIN 908471 C/o 99 APO for info pl.

Regd/Post

Headquarters Chief Engineer Northern Command PIN - 914 698 C/o 56 APO

42151/C-08/ 32 /E-3

09 Feb 2019

CE Udhampur Zone CE 31 Zone CE Leh Zone

#### **APPROVAL OF NEW PRODUCTS: B/R ITEMS**

#### Dear,

- Ref IAFD 931, CMPT-II Committee held in this HQ on 27 Aug 2018
- M/s Vectus Industries Ltd approached this HQ for approval of their products in Defence Works.
- 3. Approval in terms of Policy letter No. A/37696/12-114/Pol/E2W (PPC) dated 05 Jun 2015 hereby accorded for use of following products in Def works for including the items for trial with limited quantities for two years by the CMPT Committee -II constituted at this HQ.
  - (a) VECTUS" PVC Pipes, PPR Pipes, CPVC Pipes, SWR Pipe, Composite Pipe and fittings water storage tank.
- 4. Further continuation of the products will be decided thereafter, based on the mandatory feedback/ performance report submitted by Zonal Chief Engineers. In case anyone using the product notices any defect / discrepancy, the same will be reported immediately without waiting for the expiry period.
- 5. The approval does not absolve the executive / supervisory staff from their responsibility for using correct quality product. It is only after they satisfied about the quality will be carried out as laid down and the records of the same maintained.
- 6. Further specifications / details of the product like drawings, samples etc can be obtained from the manufacturer at the address given below:-
- 7. The firm is required to give feedback on sales/ supply of approved items to MES contractors/ Formations / Units on six monthly basis as per format given below:-

S.No	Name of Product	Supply to MES Contractor/For mation/Unit					Supply Order No.	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)

7. The firm is required to submit a minimum of 05 No performance reports from the MES as per the para 6 above at the time of renewal, failing which case will not be considered for renewal.

BY REGD POST

M/s Vectus Industries Ltd Khasra No 134 Moujz Rukh Rajpura Parmadal more Jammu Samba (J&K)- 9697039410 Your's faithfully

(KP Singh)

Col (Wks) for Chief Engineer Telephone: 020-26334514

CMPT Cell Headquarters Chief Engineer Southern Command Pune - 411 001

CESC/CMPT/ 212 /Gen

07 Sep 2018

CE Pune Zone

CE Bhopal Zone

CE Chennai Zone

CE Jodhpur Zone

CE (Navy) Mumbai.

CE (NW) Kochi

CE (A&N) Port Blair

CE (AF) Bangalore

CE (AF) Nagpur

## ANNUAL BOO FOR YR 2018-19 FOR SELECTION OF PRODUCTS FOR INCORPORATION IN MES WORKS

- PI ref CMPT policy letter issued vide E-in-C's Branch letter No A/37696/12-114/Pol/E2W (PPC) dt 05 Jun 2015.
- Copy of annual bd of offrs for yr 2018-19 for selection of products for incorporation in MES wks duly sanctioned by Army Cdr is fwd herewith for incorporation of products in CAs.
- The same may pl be promulgated upto AGE level. Also it is intimated that all Stn Cdrs may pl be apprised of all the products in all categories as per CMPT policy letter.
- The soft copy of bd proceeding is also made available on Army web. Users may be requested to download the same.

5. For your info & necessary action pl.

> (Radha Mohan Rout) SE

Dir E/M

for Chief Engineer

Encls: As above

HQ SC Q(Wks) Br -

Copy of the noting sheet & Bd proceeding is enclosed for

records pl.

Internal NOO

ADP Sec

Copy to :-

You are requested to upload the same on Army web.

Γ

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RESTRICTED

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32

Remarks	Approved number of Asterix (*) marked newly added firms listed in Appx D					155		7.1			62			136	20	16
Brand	CATEGORY - II	Plasto, Nagpur	Polywell M/S Okey Polymers Pvt Ltd	JS Polyplast	Ergen Plastic Industries, Jodhpur	*Vectus Industries Ltd	Ashish Plast	*Piyush Plasto Chems Pvt Ltd (MODIGOLD)	Marc	Parco	*Dhawan Sanitary Udyog (PRIMA)	Sieco	Gem	*Mohan Metal Industries (CORONET)	*Shakti Enterprises	*Status Sanitech Private Ltd.,
Brand	CATEGORY -I	Sintex	Polycon, Jaipur	Rotex	Infra				Jaquar	Soma	Leader	Zoloto				
ltem		PVC Water Tanks/ Polythylene Sintex							C P Bib Cock, Stop cock, pillar cock and accessories							
S. No		18							19							

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*Jayasw. Swastik Prakash Surya Surya Kisan Tirupati *Ajay Ind *Ashirvad (ashirvad Ajay Flov	S. No	Item	Brand	Brand	Remarks
Hubless Centrifugally Cast Iron Pipes & Fittings MS Pipes & Fittings MS Pipes & Fittings  HDPE Pipes & Fittings  HDPE Pipes & Fittings  CPVC pipes and fittings  CPVC pipes			CATEGORY -I	CATEGORY - II	Approved number of Asterix (*) marked newly added firms listed in Appx D
MS Pipes & Fittings Jindal Jindal Prakash Zenith Surya BST HDPE Pipes & Fittings Finolex Finolex Finolex CPVC pipes and fittings CCHOrinated polyvinyl Chlorinde) Dutron SFMC Ajay Industrial Corporation Ltd (Shinroad) SFMC Ajay Ficwguard, Delhi Prayag Polymers(P) Ltd  *Prayag Polymers(P) Ltd  *Prayag Polymers(P) Ltd	34			*Jayaswal NECO Industries Ltc	
Jindal   Prakash   Surya   BST   Surya   BST   Kisan   Finolex   Finolex   Finolex   Tirupati   Supreme   Jain Irrigation Sys   CPVC pipes and fittings   Finolex   Chlorinated polyviny  Chlorinated polyviny  Chloride)   Dutron   *Ajay Industrial Corporation Ltd (ashirvad )   Ajay Fiowguard, Delhi   *Prayag Polymers(P) Ltd   *P	4	MS Pipes & Fittings	Tata	Swastik	
HDPE Pipes & Fittings			Jindal	Prakash	
HDPE Pipes & Fittings Finolex Kisan Kisan Finolex Prince Tirupati Supreme Jain Irrigation Sys Chlorinated polyvinyl Chlorinated polyvinyl Chlorinated polyvinyl SFMC (ashirvad Pipes Pvt Ltd (ashirvad) Ajay Fiowguard, Delhi Ajay Fiowguard, Delh			Zenith	Surya	
HDPE Pipes & Fittings Finolex Kisan Tirupati Supreme Jain Irrigation Sys Finolex *Vectus Industries Ltd chlorinated polyvinyl Chlorinated polyvinyl SFMC *Ashirvad Pipes Pvt Ltd (ashirvad) Ajay Flawguard, Delhi Apriyag Polymers(P) Ltd (ashirvad) *Prayag Polymers(P) Ltd (ashirvad) *Prayag Polymers(P) Ltd (ashirvad) *Prayag Polymers(P) Ltd			BST		
HDPE Pipes & Fittings Prince Supreme Jain Irrigation Sys  CPVC pipes and fittings (Chlorinated polyvinyl chloride)  Louid Chloride)  Dutron SFMC Ajay Industrial Corporation Ltd (ashirvad) Ajay Flowguard, Delhi Prayag Polymers(P) Ltd **Prayag Polymers(P) Ltd **Prayag Polymers(P) Ltd **Prayag Polymers(P) Ltd	,				
Supreme Jain Irrigation Sys  CPVC pipes and fittings (Chlorinated polyvinyl chloride)  Chloride)  Dutron  *Ajay Industrial Corporation Ltd (ashirvad)  SFMC  Ajay Fiowguard, Delhi  *Privagg Polymers(P) Ltd	2	HDPE Pipes & Fittings	Finolex	Kisan	
CPVC pipes and fittings (Chlorinated polyvinyl chloride)  Dutron  *Ajay Industrial Corporation Ltd (ashirvad)  SFMC (ashirvad)  Ajay Fiowguard, Delhi  *Prayag Polymers(P) Ltd  *Prayag Polymers(P) Ltd			Prince	Tirupati	
CPVC pipes and fittings  CPVC pipes and fittings  (Chlorinated polyvinyl chloride)  Chlorinated polyvinyl chloride  Chloride  Chloride  Chloride  Chloride  Chloride  Dutron *Ajay Industrial Corporation Ltd *Ashirvad Pipes Pvt Ltd (ashirvad)  Chloride  *Ashirvad Pipes Pvt Ltd (ashirvad)  Chloride  Chloride			Supreme		
CPVC pipes and fittings  (Chlorinated polyvinyl chloride)  (Chlorinated polyvinyl butron Ajay Industrial Corporation Ltd *Ajay Industrial Corporation Ltd (ashirvad Pipes Pvt Ltd (ashirvad) Ajay Flowguard, Delhi Aprayag Polymers(P) Ltd *Prayag Polymers(P) Ltd			Jain Irrigation Sys		
CPVC pipes and fittings  (Chlorinated polyvinyl chloride)  (Chlorinated polyvinyl white polyvinyl chloride)  (Chlorinated polyvinyl white polyvinyl chloride)  (SFMC (ashirvad) (ashirvad)  (Ajay Flowguard, Delhi white polymers(P) Ltd	(		5 19		
*Ajay Industrial Corporation Ltd	9	CPVC pipes and fittings (Chlorinated polyvinyl chloride)	Finolex	*Vectus Industries Ltd	152
*Ashirvad Pipes Pvt Ltd (ashirvad) Ajay Flowguard, Delhi *Prayag Polymers(P) Ltd			Dutron	*Ajay Industrial Corporation Ltd	
Ajay Flowguard, Delhi *Prayag Polymers(P) Ltd			SFMC	*Ashirvad Pipes Pvt Ltd (ashirvad)	
*Prayag Polymers(P) Ltd			4	Ajay Flowguard, Delhi	
				*Prayag Polymers(P) Ltd	. 299

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S. No	Item	Brand	Brand	Remarks
		CALEGORY -	CATEGORY - II	Approved number of Asterix (*) marked newly added firms listed in Appx D
_	PVC - Soil, waste, rainwater (SWR) & Drainage pipes	Supreme	Dinesh	
		Prince	Amogh Plast	
		Kisan	Astron Plastic	
		Finolex		
		Infra		
7A	PPR Pipes & Fittings	Prince	*Savoir Faire Manufacturing Co.	17
		Finoley	*Kanha Blastics But 14 (KBT)	71
		8000	Namina Figation FVI LIU (NFT)	(2)
		Supreme	*Vectus Industries Ltd	153
7 B	PVC Pipes & Fittings	Prince	*GM Modular Pvt Ltd	51
		Finolex		
		Supreme		
2 C	UPVC Pipes and Fittings	Prince	*Kanha Plastics Pvt Ltd(Make KPT)	76
		Finolex	*Sarovaram Industries (LLP)	88
		Supreme	*AKG Extrusions Pvt Ltd (AKG)	116,117
			*Ajay Industrial Corporation Ltd (GREENLINE)	141
			*Kisan Mouldings Ltd	144
			*Vectus Industries Ltd	150
			*Ashirvad Pipes Pvt Ltd (ashirvad)	196

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o. No	Item	Brand	Brand	Remarks
		CATEGORY -I	CATEGORY - II	Approved number of Asterix (*) marked newly added firms listed in Appx D
7 D	UPVC Pipes & Fittings for SWR	Prince	*Sarovaram Industries LLP	68
		Finolex	*AKG Extrusions Pvt Ltd (AKG)	11
		Supreme	*Ajay Industrial Corporation Ltd	
			*Vectus Industries Ltd	151
			*Ashirvad Pipes Pvt Ltd (ashirvad)	197,198
2 E	Polyethylene / Aluminium/Polyethylene Composite Pressure Pipe	Prince	*Vectus Industries Ltd	154
		Finolex		
		Supreme		
7 F	Plastic Pipe (for non pressure Drainage & Sewaragae)	Prince	*Ashirvad Pipes Pvt Ltd	199
		Finolex		
		Supreme		
∞	CI - Soil, waste, rainwater (SWR) & Drainage pipes	NECO, Nagpur	SKF (Singhal Iron Foundry, Mathura)	
		Kesoram	Bengal Iron Co	
		Electro Steel	Dhatu Udyog	
			Kapilansh, Nagpur	
			Anand Founder & Engineers	

Chief Engineer
Western Command
PIN – 908 543
C/O 56 APO

19 1

Jun 2019

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33158 / TNP / / E2 (P&C)

HQ CE CZ Chandigarh

HQ CE PZ Pathankot

HQ CE JZ Jalandhar

HQ CE DZ Delhi

HQ CE (AF) WAC Palam Delhi

#### PRODUCT APPROVAL

- 1. Ref IAFD 931, CMPT-II Committee held in this HQ on 15 May 2017 and letter No 33158/TNP/3299/E2 (P&C) dt 02 Jun 2017.
- 2. M/s Vectus Industries Ltd approached this HQ for approval of their products in Defence Works.
- 3. Approval in terms of Policy letter No. A/37696/12-114/Pol/E2W (PPC) dt 05 Jun 2015 hereby accorded for use of following products in Defence Works for the period upto 31 May 2019 by the CMPT Committee II constituted at this HQ. The next CMPT-II and Review BOO will be held at this HQ in Jun 2019. To ensure continuity of the products approval fwd vide above quoted letter, the validity of the products given below is further extended herewith till 30 Sep 2019.
  - (a) PPR/SWR/CPVC/Composite
    Pipe and fittings

    (b) HDPE water storage Tanks

Group - I,II &III (Make VECTUS)

- 4. Further continuation of the products will be decided thereafter, based on the mandatory feedback / performance report submitted by CE Zones. In case anyone using the product notices any defect / discrepancy, the same will be reported immediately without waiting for the expiry period.
- 5. The approval does not absolve the executive / supervisory staff from their responsibility for using correct quality product. It is only after they satisfied about the quality will be carried out as laid down and the records of the same maintained.
- 6. Further specifications / details of the product like drawings, samples etc. can be obtained from the manufacturer at the address given below.
- 7. The firm is required to give feedback on sales / supply of approved items to MES Contractors/ Formations / Units on Six monthly basis as per format given below:-

	Name of Product	Supply to MES Contractor/ Formation/ Unit	/ Station		Quantity supplied		Supply Order No	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)

8. The firm is required to submit a minimum of 05 No's performance reports from CE Zones as per the Para 4 above at the time of renewal, failing which case will not be considered for renewal.

BY REGD POST

Office Address: -

M/s Vectus Industries



(R S Bhasin)

Col SO-I (P&C)

or Chief Engineer

## Madhya Pradesh Jal Nigam Maryadit List of newly enlisted Vendors for different materials against EOI Notice No. 1921/03/Tech./MPJNM/2018 Dated 19.04.2018

(A) Name of firms & their manufacturing Units enlisted against EOI Notice No. 1921/03 /Tech/dated 19.04.2018:-

	S.No	Name of Item	Name of Firm	Name & Address of Manufacturing Unit	CM/L No. of Manufacturi ng Unit	Remark
-	(1)	(2)	(3)	(4)	(5)	(6)
	t	DI Pipes	M/S Srikalahasthi Pipes Limited, Chennai	M/s Shrikalahasthi pipe Ltd. Rachagunneri, Village- Srikalahasthi Mandal Distt-Chittoor (A.P.)- 517641	CM/L-6245464	
			M/s Kriti Industries (India) Limited, Indore,	M/s Kriti Industries (India) Limited 75-86 Sector -II, Pithampur, Distt- Dhar (M.P.)	CM/L-8250467	
			M/s The Supreme Industries Ltd., Mumbai	M/s The Supreme Industries Ltd, Unit No. – III GAT NO, 47,47/2, 48 to 50,55 to 66,69, 70,72 & 73, Jalgaon- Aurangabad StateHighway, at post- Gadegaon Tal Jamner, Distt- Jalgaon-425114	CM/L-7789412	Subjected to condition that the firm shall
	2	HDPE Pipes	M/s Makknow Industries, Raipur	Makknow Industries 632/A633, Industrial Area, Urla, Block-Sinva, Raipur, Chhattisgarh- 493221	CM/L-3092854	has/have to submit the celearence from BIS as per IS 4984
			M/s Texmo Pipes and Products Limited, Burhanpur	M/s Texmo Pipes and Products Limited, P.B. NO. 35, 98, Bahadarpur Road, Burhanpur (M.P.) 450331	CM/L-8428886	:2016
			M/s Kisan Irrigations and Infrastructure Ltd., Indore	M/s Kisan Irrigations and Infrastructure Ltd. (Unit-II) PLot no 91-110, Sector 3, Sagore Kuti, Industrial Area, Pithampur, District-Dhar- 4547774	CM/L- 3055444	



S.No.	Name of Item	Name of Firm	Name & Address of Manufacturing Unit	CM/L No. of Manufacturing Unit	Remark
(1)	(2)	(3)	(4)	(5)	(6)
		M/s Polysil Irrigation Systems Pvt.Ltd., Mumbai	M/s Polysil Irrigation Systems Pvt.Ltd. 137/1, Madhuban Dam, Village- Karad, Silvassa, (DN&H) – 396230	CM/L- 7899924	
		M/s Apollo Pipes Ltd. Delhi	M/s Apollo Pipes Ltd. Plot (Khasra No. 2928 & 2938). Dhoom Manikpur,	CM/L-3161342	
			Dadri , District G.B. Nagar (UP)		
		M/s Vishal pipes Ltd. Delhi	M/s Vishal pipes Ltd. (Unit-3) A-68 and A-68/1, Industrial Area Sikandrabad- 203205 (UP)	CM/L-2597677	
	HDPE Pipes	M/s Vectus Industries Ltd. Noida	M/s Vectus Industries Ltd. Plot No. 41,42 Industrial Area, Banmore, District- Morena- 476444	CM/L-8200019204	Subjected to condition that the firm shall has/have to
		M/s Parixit Irrigation Ltd. Ahemdabad	M/s Parixit Irrigation Ltd. Survey No. 214/1, 214/2, Virpura Bus Stop, P.O. Lyava, Taluka, Sanand, District Ahemdabad-382170, (Gujrat)	CM/L-7014147	submit the celearence from BIS as per IS 4984 :2016
		M/s Sagar Polytechnic Ltd. rajkot	M/s Sagar Polytechnic Ltd. Plot no. 109-111 Bamanbore, Chotila, District - Surendra nagar - (Rajkot)	CM/L-7474787	
		M/s Nimbus Pipes Ltd. Jaipur	M/s Nimbus Pipes Ltd. SP-2, 123 & 123A, RHCO Industrial Area, Manda, Via- Chomu, Jaipur (Rajsthan)	CM/L-8742084	
3	Power Transformers	M/S Shri Ram Switchgears Ltd., Ratlam	M/s Shriram Switchgears Ltd. 14-15, Industrial Estate, Ratlam (M.P.)	CM/L- 8200040898	Only for Oil immersed distribution BEE 3 star rated transformer



S.No.	Name of Item	Name of Firm	Name & Address of Manufacturing Unit	CM/L No. of Manufacturing Unit	Remark
(1)	(2)	(3)	(4)	(5)	(6)
4	WTP equipement : Flash mixers, Clariflocculators,	M/s Adroit Associates, Indore	M/s Adroit Associates. 07-malwa Market, 330-Udyog Nagar, Musakhedi, Indore (M.P.)	2	
	Flocculators, Rotating bridge, Blowlers etc	M/s Imac Engineering, Howrah	M/s Imac Engineering, Balitikuri, Ghospara, Howrah-711113		
REAL CHARGOSTA	gaastaagu kiiki allismati "Asuolikasi Siilaksi ———	According to the last of the second	(W.B.)		
5	DI Fittings	M/s R.G. Industries, Jalandhar	M/s R.G. Industries Village Fazalpur, Behind Focal Point, Near Randhawa Masandan, Jalandhar- 144004	CM/L- 9617995	
6	HDPE Fittings (Compression fittings, Tapping Saddles, Electrofusion Couplers)	M/s AL-AZIZ PLASTICS PVT. LTD. Mumbai	M/s AL-Aziz Plastics Pvt. Ltd. Plot No. 5-14, Achhad Industrial Estate, Achhad, Taluka- Talasari, District Palghar-401606		

## (B) Modified Name of firm already enlisted :-

S.No.	Name of Item	Existing Name of Firm as per Tender Document	Modified Name of Firm	Name & Address of Manufacturing Unit	CM/L No. of Manufacturing Unit	Remark
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	HDPE Pipe	M/s Godavari	M/s Godavari Polymers Pvt. Ltd.	M/s Godavari Polymers Pvt. Ltd. 153,B,C,E,&F, Phase- II, IDA, Cherlapali Hydrabad- 500051	CM/L 6034653	•

Bhopal

Date: 18.07.2018

(N.P. Malvia) Project Director



## NBCC (INDIA) LIMITED (A GOVT. OF INDIA ENTERPRISE) OFFICE OF CGM (CPG)

NBCC Bhawan,2 Floor, Lodhi Road, New Delhi-110003.
Mail ID: cpg.ho@nbccindia.com

Date: 17.08.2017

#### CORRIGENDUM/ ADDENDUM 01

Sub: Tender for Re-development of ITPO Complex into Integrated Exhibition –Cum-Convention Centre (IECC) at Pragati Maidan, New Delhi on Design, Engineering, Procurement and Construction (EPC) basis including operation & Maintenance.

**Ref**: **NIT NO. NBCC/CPG/ ITPO/NEW DELHI/2017/94** dated 25.07.2017 published on E-tendering websites <a href="https://www.tenderwizard.com/NBCC">www.tenderwizard.com/NBCC</a> and <a href="https://www.eprocure.gov.in">www.eprocure.gov.in</a> on 27.07.2017.

With reference to above referred NIT, Corrigendum/Addendum No. 01 is hereby issued as under.

- The Clarification/Replies to the Pre-Bid Queries of the Pre-Bid Meeting held on 05.08.2017 for the above mentioned work is uploaded herewith in tender notification location.
- 2.) Following documents are uploaded herewith in tender notification location:
  - a) Volume 3 Part Technical Specification Partly changed in the Technical Specification uploaded along with the NIT.
  - b) Volume 2 Part Updated Status of NOC
  - c) Volume 4 Part1 Drawings Revised and Additional Drawings
  - d) Volume 4 Part2 Drawings Revised and Additional Drawings
  - e) Volume 6 Part Updated Sewage System Design
- 3) Brief description for the changes made is attached with this Corrigendum/Addendum 01,
- 4) Additional Special Condition of Contract is uploaded herewith in tender notification location

All other terms and conditions of tender shall remain same.

Sd/-AGM (CPG) ┙

Subject:- Re-development of ITPO Complex into Integrated Exhibition -Cum-Convention Centre (IECC) at Pragati Maidan, New Delhi on Design, Engineering, Procurement and Construction (EPC) basis including operation & Maintenance.

Tender Reference: NBCC/CPG/ ITPO/NEW DELHI/2017/94 DATED 25/07/2017

Corrigendum No\_01

CPVC Pipes and Fittings AKG / Astral  CPVC Pipes and Fittings AKG / Astral/Vectus	CPVC pipes_Ajay / Ashirwad / Astral CPVC pipes_Ajay / Ashirwad / Astral /Vectus	CPVC pipes_Ajay / Ashirwad / Astral CPVC pipes_Ajay / Ashirwad / Astral ANT
Page ref LIST OF RECOMMENDED MAKES PLUMBING SYSTEM Volume-03_TECHNICAL SPECIFICATION	Page ref LIST OF RECOMMENDED MAKES WATER TREATMENT PLANT Volume-03_TECHNICAL SPECIFICATION	Page ref LIST OF RECOMMENDED MAKES SEWAGE TREATMENT PLANT Volume-03_TECHNICAL SPECIFICATION
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## संचालनालय, नगरीय प्रशासन एवं विकास, म०प्र०, भोपाल Directorate, Urban Administration & Development, M.P., Bhopal Website: www.mpurban.gov.in

Palika Bhawan, Near 6 No. Bus Stop Shivaji Nagar, Bhopal - 462016 Tel. 0755-2554080 Fax 0755-2554080 Email: anandsingh@mpurban.gov.in

क्रमांक/याँ 0 प्र 0 / 0 7 / 2 0 1 8 / 1 1 1 / 0 प्रति,

भोपाल, दिनांक २५../१०../2018

- 1. समस्त आयुक्त, नगर पालिक निगम, मध्यपदेश
- 2. समस्त मुख्य नगर पालिका अधिकारी. नगर पालिका परिषद्/नगर परिषद मध्यपदेश

विषय:- निर्माण कार्य में उपयोग की जा रही सामग्री के सम्बंध में।

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संचालनालय में विभिन्न निर्माण सामग्री के Manufacturers द्वारा समय-समय पर आवेदन देकर उनके द्वारा तैयार करवाई जा रहीं निर्माण सामग्री को निर्माण कार्य में उपयोग करने के लिए List of Approved Brand and Makes में सिम्मिलित करने के लिए अनुरोध किया है, जो आवेदन संचालनालय को प्राप्त हुये उनका संक्षिप्त विवरण संलग्न प्रपत्र में दिया जा रहा

जहां तक की विभाग के Integrated Standard Shedule of Rates 2012 अथवा Bidding Document में किये गये प्रावधान का प्रश्न है विभिन्न निर्माण सामग्री के Make या Manufacturer के वारे में सूचि सहित उल्लेख किया गया है परन्तु यह स्पष्ट किया गया है कि सामान्य Indicative की सूची है, यदि निर्माण सामग्री की विशिष्टियों की पूर्ति करते हुए कोई "Equivalent" सामग्री का उपयोग प्रस्तावित करता है तो भी यह नियमानुकूल होगा। कार्य के Engineer In-charge का यह दायित्व होगा कि दर अनुसूची अथवा निविदा में दिये गये निर्माण सामग्री के Specifications को पूर्ति करने के लिए आवश्यक Test या Test Certificats आदि को पूर्णतः जांच कर प्रावधानित Indicative List के दर्शित Make का Equivalence स्थापित करने के उपरांत Equivalent सामग्री के लगाये जाने के विषय में निर्णय ले यदि किसी प्रकरण विशेष में Engineer In-charge को निर्णय लेने में कोई दिक्कत होती है तो सम्बंधित नगरीय निकाय (नगर निगम को छोड़कर) के मुख्य नगर पालिका अधिकारी की अध्यक्षता में निकाय के वरिष्ठतम इंजीनियर, सम्भाग के प्रभारी कार्यपालन यंत्री एवं Independent Agency SQC/PDMC/PMC के RE की एक समिति द्वारा परीक्षण किया जाकर यथोचित निर्णय लिये जाये। नगर पालिक निगम के मामले में आयुक्त, नगर पालिक निगम की अध्यक्षता में निगम के वरिष्ठतम यंत्री, कार्य के प्रभारी यंत्री एवं Independent Agency SQC/PIDMC/PMC के RF की समिति द्वारा निर्णय लिया जाये।

(संलग्नः- उपरोक्तानुसार)

(प्रभाकांत कटारे) प्रमुख अर्भियंता, नगरीय प्रशासन एवं विकास मध्यप्रदेश, भोपाल

प्रतिलिपि.

आवश्यक कार्यवाही हेत्।

समस्त संभागीय कार्यपालन यंत्री, नगरीय प्रशासन एवं विकास मध्यप्रदेश की ओर

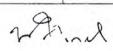
भोपाल, दिनांक : 05/10 /2018

प्रमुख अभियंता. **े ज**गरीय प्रशासन एवं विकास. मध्यप्रदेश भोपाल

Disk-E-Letter Folder-Anand Sir Letter-796

# URBAN ADMINISTRATION & DEVELOPMENT DEPARTMENT LIST OF PRODUCT

.No.	Name of Applicant	Material/Item/Product	Details of Product	ISI/ISO Details
1	Oasis	Tiles& Sanitary ware	Polished Vitrified 60cmx60cm	ISO 9001:2008
2	Oasis	Tiles	Kerastone Full Body Vitrified tiles (60cmx60cm) thickness 10mm, 16mm and 3mm	ISO 9001:2008
3	Oasis	Tiles	Double Charge Vitrified Glossy Finish (120x80cm 80x80cm  60x60cm)	IS: 15622
4	Oasis	Tiles	Digital Wall Tiles (30x45cm)	ISO: 9001:2008 IS : 15622
5	Oasis	Tiles	Mariposa Ceramic Wall 30x60cm/ Glossy /Malt	IS: 15622
6	Orient bell Tiles	Tiles	*Ceramic and Vitrified tiles *Ultra - Vitrified tiles	ISO 14001:2015 ISO 9001:2015
7	Orient bell Tiles	Tiles	Floor Tiles Collection	ISO 14001:2015 ISO 9001:201
8	Oasis	Tiles	*PGVT/GVT *Foresta Wooden stride 80x120cm/ 60x120cm/ 80x80cm/60x60cm/19.5x12 0cm	IS:15622
9	AGL	Tiles	* Digital Ceramic tiles * Polished Porcelain tiles * Glossy	ISO 14001:2015
10	Zeal top Grami to Pvt. Ltd.	Tiles	Vitrified Double Changel&Solable Salt with	ISO 9001:2008
11	Oasis	Tiles	*Vitrified Tiles *Wall Tiles	ISO 9001,14001,18001
12	Oasis	Tiles	*Elevation Wall Tiles (300x600mm) *Parking Tiles (300x300mm	ISO 9001:2008
13	Johnson	Tiles	Vitrified Tiles, Marvels	ISO 9001-2015
14	Simpolo Vitrified Pvt. Ltd.	Tiles	Vitrified Tiles, Marvels	ISO 9001-2015
15	* DWC HDPE Pipe & Fittings * HDPE Cable Duct Pipes * C-PV		* DWC HDPE Pipe & Fittings * HDPE Cable Duct Pipes * C-PVC Pipes & Fittings * U- PVC Pipes & Fittings	ISO 9001:2015
16	SFMC Pvt.Ltd.	Pipe fitting	*PPR	ISO 9001:2015
			*PVC *SWR *CPVC	ISI : 15801
17	West Well Polytubes	Pipes	*HDPE Pipes for water supply	ISO 9001:2008
			*HDPE Pipes for water *Sewerage *HDPE Pipes for irrigation	1S 4984:1995
18	Shree Jogi pipe Industries	Pipes	purposes HDPE Pipes and Sprinkles Pipes PE 63, PE 80, PE 100	ISO 9001:2008 IS 4984:1995



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1	Vectus Industries LTD.	Pipes & Fittings	* PPR Pipes	IS:14735
		Tank	* AGRF Pipes	IS13592, 4985, 7834, 15450
			* SWR Pipes	
			* HDPE Pipes	
			* CPVC Pies	
			* Water Storages Tank	
			* Composite Pipes	
20	B.R. Poly plast LLP	Pipes	* High Density Polyethylene	IS 4984:1995
			* Portable Water Supply	
21	M/S Kanha Plastics Pvt. Ltd.	Pipes & Fittings	* PPR Pipes	ISO: 9001: 2015
			* AGRF Pipes	ISO: 14001:2015
			* SWR Pipes	
			* HDPE Pipes	
			* CPVC Pies	
			* Water Storages Tank	
			* Composite Pipes	
			*UPVC Pressure piping	
			* SWR piping systems	
22	Sigma Flow Control India LTD.	Valves,ductile iron pipe	* Gate Values	
		fittings and Couplings	(50NBto1000NB, rating PN 10/16)	
			* Butterfly Values	ISO 9001:2008
			(50NBto2000NB, rating PN	
			10/16)	
	1		*Non-Return Value	
			(50NBto1000NB, rating PN	
			10/16)	
			*Kinetic Value	
			(50NBto200NB, rating PN.	
			10/16)	
3	AVK Values India PVT. LTD	Valves	* Gate Valves DN50-	
			DN800	
			* Air Valves DN50-DN200	
			* Large Diameters Gate	
	0		Valves	
			* Butterfly Valves DN200-	
			DN1200	
	CANCAN OTTO	0.15	* Repair Clamps	
4	SANGAM STEEL Mahalaxmi TMT Pvt. LtdAn	Steel Bar	Sangam TMT/TMX Bar Fe 500/550 grade QST bar .	BIS As per IS 1786:2008 grade.
	Integrated Steel Plant			
5	Dhawan Sanitary Udyog	Bathroom Fitting and	Bathroom Fitting and	ISO 9001:2015
		Accessories	Accessories	
6	Plastocraft Sanitary (1)PVT.LTD.	Bath Fittings	*C.P. Bath Fittings and	IS 8931:1994
		Kitchen Sinks	Accessories	
		Plastic Cistern	*PTMT Both Fittings and	
		A STATE OF THE STA	Accessorise	
			* S.S. Kitchen Sinks and	
			Plastic Cistern	
7	Bhawani Sales & Marketing	Frames	*Vishwas Pre cast Frames	IS 6523:1983
			*RCC Frames for Building	



	AQUA	Pumps	*Water Pumps, Waste Water Pumps, Sewage, Power, Strom water	ISO 9001:2008
29	Redix Electro Systems Pvt. Ltd.	Manufacture at Process	* Flow Meters	ISO 9001:2008
		Control Instrumentation	* Flow Switches	
	1	- All the state of	* Flow Indicators	
			* Flow Totalisers	
			* strainers	
30	KEI	Wires and Cables		IS: 694
				ISO 9001:2000
31	Forbes Marshal	Flow Metre, Lable Transmeter, COD, BOD Mazering Device		ISO 9001-2015
32	Sureseal	Wate Hammer Control Solutin		
33	Inhibeo	Water Solution	* STP * ETP *ZLD * Water Treatment	ISO 9001:2015
34	Roca	Bathroom Products		ISO 9001:2015
35	Surya		Gi Pipes, Ms Pipes, CPVC Pipes, UPV Pipes,	ISO 9001:2015
36	Alstone Pvt. Ltd.	WPC (Wood Polymer Composit Board)	Door Fram, Plywoods	ISO 9001:2015
37	Icam System Ltd.	Electrical & Contol Salution, Information Salution	Wood Polymer Composite	ISO 9001:2015
38	Jain Irrigation System Ltd.	UPVC, CPVC, SWR, PVC (Pipes)		IS 13592:2013, IS 14753:1999,

on

(Anand Singh)

Executive Engineer

Urban Development & Environment

Madhya Pradesh

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# MP POLICE HOUSING AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD, BHADBHADA ROAD, BHOPAL (M.P.)

No./ 2014 / MPPHIDC/TS/SA/

 $_{\perp}$ 

/BPL/17/ DATED - 23/03/12

### ORDER

"VECTUS" Brand Name, PVC SWR Drainage Pipes (as per IS-13592) & SWR Fittings (as per IS- 14735), CPVC PIPES (as per IS-15778), PPR Pipes & Fittings (as per IS-15801), VECTUS WATER STORAGE TANK Blow Moulded Tanks and Rotational Moulded (IS-12701:1996) AND 1S-10146 White Colour, Composite Pipes & Fittings (as per IS-15450), HDPE Pipes (as per IS-4984) Manufactured by VECTUS INDUSTRIES LIMITED, having its corporate office at Noida (U.P.) are approved for use in the ongoing construction works of MP Police Housing & Infrastructure Dev. Corp. Ltd. for two years from the date of issue of this order, unless otherwise delisted earlier due to quality issues.

> (Sanjay Rana) 29.9.17 MANAGING DIRECTOR MP POLICE HOUSING & INFRA. DEV. CORP. BHOPAL

Endt. No./2014 / MPPHIDC/TS/SA/ COPY-

/BPL/17/ DATED - 29/09/12

- 1-Chief Project Engineer MPPHIDCL, Bhopal for information.
- 2-FA & CAO MPPHIDCL, Bhopal for information.
- 3-SE-I, II & III MPPHIDCL, Bhopal for information.
- 4-PE MPPHIDCL, Bhopal Divi - 1, 2 & 3, Indore Divi - 1 & 2, Ujjain, Gwalior Divi - 1 & 2, Rewa, Jabalpur Divi - 1 & 2, Balaghat, Sagar, Technical for information.
- Incharge Engineer, Technical Section MPPHIDCL, Bhopal for information & Office Record. 5-
- VECTUS INDUSTRIES LIMITED, having its Corporate Office at Noida (U.P.) for 6information.

(Sanjay Rana) 29.9.1

MANAGING DIRECTOR

MP POLICE HOUSING & INFRA. DEV. CORP. BHOPAL



# NBCC (INDIA) LIMITED

एन बी सी सी

CONSTRUCTION OF MULTI STORIED COMMERCIAL SPACES AT GPRA COLONY AT NAUORJI NAGAR, NEW DELHI ON DESIGN, ENGINEERING, PROCUREMENT AND CONSTRUCTION (EPC) BASIS INCLUDING OPERATION & MAINTENANCE



LIST OF APPROVED MAKES / BRANDS
( VOL. VII )

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### PIPE

S. No	Material	Approved Makes/Brands			
123.	M. S	Tata	Jindal Hissar	Jindal Star	
123. IVI. S	SAIL				
124.	G. I	Tata	SAIL	Jindal Hissar	
125.	Flexible pipe connection	Resistoflex	Easyflex	Kanwal	
126.	Refrigerant Piping	Mandev	Mex Flow	Mehta Tubes	
127.	UPVC pipes	Supreme	Prince	Vectus	

### **VALVES & STRAINER**

S. No	Material	Ap	Approved Makes/Brands		
400	D. Harfu salva	Advance	AUDCO	L&T	
128.	Butterfly valve	Zoloto			
129.	Marine A Date of Available	Advance	AUDCO	L&T	
129.	Motorized Butterfly Valve	Zoloto			
130.	Balancing valve	Advance	Utam & VTM	L&T	
131.	Non return valve	Advance	Utam & VTM	L&T	
	Y-Strainer	Emerald	AUDCO	Kirloskar	
132.		Zoloto			
133.	D. COL. ST.	Rapidcool	Emerald	Sant	
133.	Pot Strainer	AUDCO	Zoloto		
134.	Pressure gauge	Emerald	Anergy	Honeywell	
135.	Thermometer	Emerald	Anergy	Honeywell	
	Pall Valvas	Rapidcool	Emerald	Zoloto	
136.	Ball Valves	AUDCO			

Page 11 of 28

Signature of Contractor

NBCC

S. No	Material	Approved Makes/Brands		
137. PICB Valve	SIGNA	Danfoss	Frese	Ovenrop
	Spirotech	Reflex		
J. S.	Flancounter	Anergy	Siemens	Belimo
138.	Flow switch	Emerald		
139.	Expansion Tank	Anergy	Emerald	Spirotech
140.	Hot Water Generator	Sant	Emerald	Rapidcool

### INSULATION

S. No	Material	Ap	Approved Makes/Bra		
141.	Glass Wool	U.P Twiga	Owen Corning	K-Wool	
142.	Nitrile rubber	Armacell	K-flex	Aerocell	
143.	Expanded polystyrene	SHI	Beardshell	Styrene packaging	
144.	Vibration isolator pads	Resistoflex	Kanwal	Easyflex	
145.	Paracoat BPC	Paramount	Pidilite	Indiana Polycoa	

### **PLUMBING & SANITARY**

S. No	Material	Approved Makes/Brands			
146.	G.I / M. S Pipe	Tata	Jindal (Hisar)	Surya Prakash	
447	Unik	KS	Zoloto		
147.	G. I Fittings	R-Brand	Surya		
148.	SS Pipes	Jindal	Tata	VIGA	
		Reliance	Jain Irrigation	Oriplast	
149.	HDPE Pipes	Vertex	West Well	Supreme	
		Vectus			

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Signature of Contractor

NBCC

S. No	Material	Approved Makes/Brands			
150.	DI Pipes	Electrosteel	Jindal	Tata Ductura	
151.	DI Fittings	Kartar	Electrosteel	Kalinga	
152.	CI Fittings	Neel	Kartar	Electrosteel	
450	OID ALL GOVERNMENT	Kirloskar	Sondhi	Kejriwal	
153.	CI Double flanged sluice valve	IVC			
454	Float Valve	IVC	Leader	Zoloto	
154.	Float Valve	KSB			
		Astral	Supreme	Finolex	
155.	UPVC Pipe and Fittings	Prince	AKG	Surya Prakash	
		Vectus			
156.	Centrifugally Cast (Spun) Iron Pipes & Fittings	NECO	SKF	Electrosteel	
157.	Centrifugally Cast (Spun) Iron (Class LA) Pipes	NECO	Electro Steel	TATA	
158.	Centrifugally Cast (Spun) Ductile Iron Pipes & Fittings	Electro Steel	Jindal (Hissar)	Kalinga	
1.50	C. I Manhole covers, Frames & GI	NECO	RIF	BIC	
159.	Gratings	SKF			
400	OFDO Markata and a second	кк	OCR	PARGATI	
160.	SFRC Manhole covers & gratings	T-CON			
161.	Gun Metal Valves, Globes	Kartar	Castle	Zoloto	
100	CD Bross Fittings	Jaquar	Kohler	Parryware	
162.	CP Brass Fittings	Hindware	Grohe		

S. No	Material	Approved Makes/Brands			
163.	Sanitary Fittings & Accessories	Hindware (Italian collection)	Kohler	ROCA	
	January Manager	Duravit	Somany (French Collection)		
164.	Water Meter	Prima	Zoloto	Leader	
104.	Water Meter	Capstan			
405	Proces Oten 9 Bib Octob	Zoloto	Sant	L&K	
165.	Brass Stop & Bib Cock	Leader	Astral		
125		AKG	Supreme	Finolex	
166.	PVC Pipe & Fittings	Surya Prakash	Vectus		
	ODVO Die ee 8 Eittie ee	AKG	Astral	Supreme	
167.	CPVC Pipes & Fittings	Finolex	Surya Prakash	Vectus	
168.	Non Return Valve (Check valve) 1/2 to 11/4"	Zoloto	Sant	Leader	
169.	Brass Ferrules	Dhawan Sanitary Udyog	Kalsi	Annapurna	
aut a		SINTEX	POLYCON	SPL	
170.	Polythylene water storage tank	VECTUS			
ale col	1-2 C. E (17-3)	KAIFLEX	ARMAFLEX	CAREFLEX	
171.	Insulation for hot water pipes	Lloyd			
172.	Insulation for external / exposed hot water pipes	KAIFLEX	ARMAFLEX	CAREFLEX	
173.	Pipe protection for external water supply pipes	PYPKOTE	ARMAFLEX	MAKPOLYKOTE	
		Neelkanth	Nirali	Jayna	
174.	Stainless Steel Sink	Cera			

Page 14 of 28

S. No	Material	Approved Makes/Bran		
237.	Pressure Gauge	FIEBIG	H. GURU	Dan foss
238.	Dosing system	MILTON ROY	ASIALMI	GRUNDFOS
239.	Liquid Level Controllers / Liquid Level Indicator	ADVANCE	HONEY WELL	DANFOSS
	Filter / Softner	Ion Exchange	Rennaisance Aqua	PENTAIR
240.	Title 7 Gottile	WATCON		
67.50		Ion Exchange	Rennaisance Aqua	Pentair
241. Salt Saturator	Salt Saturator	Watcon		
242.	Water Meter	Kent	Marshall	Sant

### STP

S. No	Material	Ар	proved Makes/Bra	ands
243.	G. I Pipes	TATA	JINDAL HISSAR	Zenith
244.	G. I Fittings	UNIK	Zoloto	SS
245. UPVC pipes	SUPREME	JAIN PIPES	AKG	
245.	245. OF VC pipes	PRINCE	VECTUS	
246.	246. UPVC pipe Pressure Fittings	CEPEX	ASTRAL	AKG
246.	OF VC pipe Flessure Fittings	VECTUS		
247.	Pre-Fabricated Structural supports and clamps	CHILLY	EASYFLEX	CAMRY
248.	Paints	ASIAN PAINTS	BERGER	NEROLAC
249.	Gunmetal Fullway Valve	ZOLOTO	SANT	CASTLE
250.	Ball Valve	ARCO	CIM	CASTLE
251.	Butterfly Valve	KSB	sks	ZOLOTO

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Signature of Contractor

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Material Test Certificates from Various Govt./Semi-Govt. Institutions



# सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत संरकार)

जी-सेक्टर, गोविन्दपुरा औद्योगिक क्षेत्र, भोपाल-462 023

फोन : 2687454, 2688288 फैक्स : 91-755-2689041 ई-मेल : cipet.bhopal@gmail.com Central Institute of Plastics Engineering & Technology

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) 'G' Sector, Govindpura Industrial Area, Bhopal - 462 023 (M. P.)

Phone: 2687454, 2688288 Fax: 91-755-2689041 E-mail: cipet.bhopal@gmail.com

Series: D

PLASTIC TESTING CENTRE **TEST CERTIFICATE** 

10685 SP. No.

Issued to

M/s Vectus Industries Ltd. Plot No. 41/42 Industrial Area, Banmore, Dist - Morena (M.P.)

Test Report No.19138 A Date: 27.01.2017

Page No.1 of 3

TEST REPORT AS PER IS:15450-2004 with latest Amendment 1 & 2

### PART-A

## PARTICULARS OF SAMPLE SUBMITTED

Sample details: Polyethylene/Aluminum/PE Composite Pressure Pipes For Hot and Cold Water.

: - As State by Party

Your Ref. No : Vectus/Works/CIPET/2016-17

Date: 06.01.2017

Grade/Variety/Type/Size/Class

Batch No./ Lot No.

Date of manufacturing

Date of sample received

**Test Duration** 

Qty of sample received

Condition of receipt of sample

Any other details

: 1216mm (Outer Black / Inner White in colour)

: 27121611

: Nil : 09.01.2017

: 09.01.2017 to 27.01.2017

: 20 Meter long

: Good

: Nil

### Note:

c)

This report, in full or part, shall not be published, advertised, used for any legal action, unless prior 1.

This test report is only for the sample tested.

### : PART - B :

## SUPPLEMENTRY INFORMATIONS

Reference to sampling procedure wherever applicable a)

Supporting documents for the measurements taken and b) Results derived like graphs, tables, sketches and/or Photographs as appropriate to test report, if any (to be attached).

Deviation from the test methods as prescribed in Relevant work instruction, if any

Nil

निरंतर ....२ Contd....2

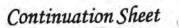
Supplied by the party

As given in Part-C

Subha Jayaraman - (T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

Abhishek Rafvansh - (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

# सिपेट, भोपाल



# CIPET, BHOPAL

टेस्ट रिपोर्ट नं. 19138 A दिनांक : 27.01.2017

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पेज	लं .	2	of	3

		TEST REPORT AS PER IS:154	ART - C:	with latest Amenda	nent 1 & 2
S.No	Clause	Name of the test	Unit	Test value obtained	Specified Requirement
01.	7.0	Colour of pipe		Black	Pipe shall be black in colour.
02.	8.0 8.1 Table-2	DIMENSIONS OF PIPE a) Outside diameter i. Tolerance	mm mm	16.10 (+) 0.10	16 (+)0.30, (-)0.0 upto 25mm/ (+) 0.50, (-)0.00 for 32mm OD and above
		ii. Max. Out-of-Roundness (Ovality)	mm	0.34	0.40
03.	8.1 Table-2	b) Wall thickness Minimum Maximum c) Outer Layer Thickness (Min)	mm mm mm	1.82 1.96 0.87	1.75 2.00 0.40
04.	8.3	Length of Straight Pipe	mtr	16.10	Should be 3 to 20 mtr.
05.	9.0	Visual Appearance		Conforms	Internal & External surface of pipes shall be smooth, clean and free from groovings and other defects. The ends shall be cleanly cut and square with axis of pipe
06.	10.1	Density at 23°C	kg/m³	944.64	940.4 to 946.4 at 23° C
07.	10.2	Melt Flow rate At 190°C/5 kg	gms/10 min	0.54	0.4 to 0.8
08.	10.3	(a) Carbon black content	%	2.48	2.0 to 3.0
		(b) Carbon black dispersion	-	Conforms	Shall be satisfactory
09.	10.4	Pigment Dispersion	grade-	Conforms	Less than or equal to 3
10.	10.5	Adhesion Test		Conforms	There shall be no de- lamination of PE and Al either on bore side or outside
	10.6	Apparent Tensile Strength of Pipe	N	4209	2100 (Min)
11.	10.7	Minimum Burst Pressure	Мра	No burst upto 6.0 Mpa	6 Mpa

Contd...3

Subha Jayaraman - (T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

Abhishek Rajvansh - (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

## (संपेट, भोपाल

### Continuation Sheet

### CIPET, BHOPAL

टेस्ट रिपोर्ट नं. 19138 A दिनांक: 27.01.2017 पेज नं.. 3 of 3

S.No	Clause	Name of the test	Unit	Test value obtained	Specified Requirement
12.	10.8 Table-5	Hydraulic Characteristics (i) 3.0 MPa Induced stress for 1 hour at 20°C		Conforms	Pipe shall show no sign of localised swelling, leakage or weeping and shall not burst during prescribed test duration
		Hydraulic Characteristics (ii) 2.5 MPa Induced stress for 10 hours at 60°C		Conforms	Pipe shall show no sign of localised swelling, leakage or weeping and shall not burst during prescribed test duration
13.	11.1 11.1.1 Table-6	Hydraulic Characteristics (i) Type Test at 1.2 MPa Induced stress for 170 hours at 95°C	-	Conforms	Pipe shall show no sign of localized swelling, leakage or weeping and shall not burst during prescribed test duration.
14.	11.1.2	Overall Migration Test	mg/litre mg/dm <sup>2</sup>	54.0 1.35	60 (max.) 10 (max.)
15.	11.1.3	Thermal Stability	Minutes	Conforms	Shall be minimum 20 minutes

### Note:

- Selection of samples for individual test have been done in accordance with respective clauses of IS: 15450-2004 with latest Amendment 1 & 2.
- 2. Details of test sub-contracted: Nil
- 3. Remnant samples will be disposed after 3 months from the date of issue of test report.

Subha Jayaraman – (T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

Abhishek Rajvansh - (S.T.O.) अधिकृत हस्ताहार /Authorised Signatory



# सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नोलॉजी

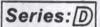
(रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

जी-सेक्टर, गोविन्दपुरा औद्योगिक क्षेत्र, भोपाल-462 023

फोन: 2687454, 4028629 फैक्स: 91-755-2689041 ई-मेल: cipet.bhopal@gmail.com Central Institute of Plastics Engineering & Technology

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) 'G' Sector, Govindpura Industrial Area, Bhopal - 462 023 (M. P.)

Phone: 2687454, 4028629 Fax: 91-755-2689041 E-mail: cipet.bhopal@gmail.com Certificate No.: TC-6378



### PLASTIC TESTING CENTRE **TEST CERTIFICATE**

화.No.13375

Issued to M/s Vectus Industries Ltd. Unit-II Plot No. 41/42 Industrial Area, Bamnore, Dist - Morena (M.P)



Test Report No. 20607 Date: 27.03.2018 Page No. 1 of 3

TEST REPORT AS PER IS: 13592:2013

### PART-A

#### PARTICULARS OF SAMPLE SUBMITTED

नम्ना विवरण / Sample details : UPVC pipe for soil and waste discharge system for Inside & Outside buildings including ventilation and rainwater system- as stated by party

आपका संदर्भ कमांक : Vectus/Works/2017-18/SJ/427

दिनांक: 04.09.2018

ब्रेड ।वेरेटी/टाईप/ साईज /क्लास/

Grade/Variety/Type/Size/Class

बेच नं /Batch No.

उत्पादकता की दिनांक /Date of manufacturing

प्राप्त नमुने की दिनांक /Date of sample received

परीक्षण समय /Test Duration

अन्य विवरण/Any other details

जमूने की मात्रा /Qty of sample received प्राप्त नमूने की स्थिति /Condition of receipt of sample : 26.10.2017 to 26.03.2018 : 1 mtr x 4 Nos Plain Pipe + 1 mtr x 2 Nos socketed pipes

: SWR Pipe 110 mm, Type-A

: Good

: 31081711

: 11.09.2017

: Nil

: Nil

- 1. This report, in full or part, shall not be published, advertised, used for any legal action, unless prior permission has been secured.
- This test report is only for the sample tested.

#### PART - B

#### SUPPLEMENTRY INFORMATIONS

a) Reference to sampling procedure wherever applicable b) Supporting documents for the measurements taken and Results derived like graphs, tables, sketches and/or

Photographs as appropriate to test report, if any (to be attached).

Deviation from the test methods as prescribed in c) Relevant work instruction, if any

Nil

निरंतर ....२ Contd....2

Subha Jayaraman - (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

अधिकृत हस्ताक्षर /Authorised Signatory

Supplied by the party

As given in Part-C



# सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

जी-सेक्टर, गोविन्दपुरा औद्योगिक क्षेत्र, भोपाल-462 023

फोन : 2687454, 4028629 फेक्स : 91-755-2689041 ई-मेल : cipet.bhopal@gmail.com Central Institute of Plastics Engineering & Technology

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) 'G' Sector, Govindpura Industrial Area, Bhopal - 462 023 (M. P.)

Phone: 2687454, 4028629 Fax: 91-755-2689041 E-mail: cipet.bhopal@gmail.com Certificate 1

Series: D

PLASTIC TESTING CENTRE TEST CERTIFICATE

死.No.13214

Issued to

M/s Vectus Industries Ltd.

Unit-1, Plot No. 22,26/27 Industrial Area,

Banmore Dist - Morena (M.P.)

Test Report No. 20522 Date: 09.03.2018

Page No. 1 of 2

TEST REPORT AS PER IS:12701:1996 with latest Amendment 1 & 2

### PART-A

### PARTICULARS OF SAMPLE SUBMITTED

नमूना विवरण /Sample details

: Rotational Moulded Polyethylene Water Storage Tanks. - as stated by party

Your Ref. No: Vcctus/Works/2017-18/Si/820

Date: 22.01.2018

टाईप ऑफ टैक /Type of tank

नेट केपेसिटी / Net Capacity

: Water Storage Tank : 1000 ltrs, double layer

बैच ठांo/Batch No

: Nil

उत्पादन की दिनांक / Date of manufacturing

: Nil

प्राप्त जमूने की गात्रा / Quantity of sample received : 01 No. Tank

नमुना प्राप्ति दिनांक / Date of sample received

: 17.02.2018 : 22.02.2018 to 08.03.2018

परीक्षण सगय / Test Duration

प्राप्त नमुने की स्थिति /Condition of receipt sample : Good अन्य विवरण /Any other details

#### Note:

c)

This report, in full or part, shall not be published, advertised, used for any legal action, unless prior 1. permission has been secured.

This test report is only for the sample tested.

### PART- B

#### SUPPLEMENTRY INFORMATIONS

Reference to sampling procedure wherever applicable a)

Supplied by the party

Supporting documents for the measurements taken and b)

As given in Part-C

Results derived like graphs, tables, sketches and/or Photographs as appropriate to test report, if any

(to be attached). Deviation from the test methods as prescribed in

Nil

Relevant work instruction, if any

लिएंतर ? Contd...2

Subley. Subha Jayaramàn – (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory Dr. Sandesh Kumar Jain - Director & Head अधिकृत हस्ताक्षर /Authorised Signatory

# सिपेट, भोपाल



# Continuation Sheet



# CIPET, BHOPAL

टेस्ट रिपोर्ट नं.20522 दिनांक 09.03.2018

C N/a	CI.	EST RESULTS AS PER IS:12	701-96 with la	test Amen	dment No.1 &	2
S.No 01.	Clause 7.6	Name of the test	Test Method	Unit	Test value obtained	Specified Requirement
		Overall migration	IS:9845- 1998	mg/ltr mg/dm <sup>2</sup>	34.0 3.09	60 (max) 10 (max)

1. Selection of samples for individual test have been done in accordance with respective clauses of IS: 12701-1996 with latest amendment 1 & 2. 2.

Details of test sub-contracted: Nil

3. Remnant samples will be disposed after 3 months from the date of issue of test report.

عدد العالم . Subha Jayaraman – (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

Dr. Sandesh Kumar Jain Director & Head अधिकृत हस्ताक्षर /Authorised Signatory



सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार) जी-सेक्टर, गोविन्दपुरा औद्योगिक क्षेत्र, भोपाल-462 023

फोन: 2687454, 4028629 फैक्स: 91-755-2689041 ई-मेल: cipet.bhopal@gmail.com

Central Institute of Plastics Engineering & Technology

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) 'G' Sector, Govindpura Industrial Area, Bhopai - 462 023 (M. P.)

Phone : 2687454, 4028629 Fax : 91-755-2689041 E-mail : cipet.bhopal@gmail.com

Series: D

PLASTIC TESTING CENTRE **TEST CERTIFICATE** 

界.No.13345

Issued to

M/s Vectus Industries Ltd. Unit-II Plot No. 41/42 Industrial Area, Banmore Dist-Morena (M.P.)

Test report No.20580 Date: 22.03.2018 Page No. 1 of 2

TEST REPORT AS PER IS: 4985 - 2000 with Amendment No. 1, 2, 3, 4 & 5

#### PART - A

#### PARTICULARS OF SAMPLE SUBMITTED

नम्ना विवरण/Sample details

: Unplasticized PVC Pipes for Potable Water Supplies for effect of water test only - As stated by party

> आवका संदर्भ क्रमांक : Letter दिनांक : 10.01.2018

ग्रेड /वेरेटी/टाईप/ साईज /क्लास/

Grade/Variety/Type/Size/Class दौच नं /Batch No./Batch No.

उत्पादकता की दिलांक /Date of manufacturing

प्राप्त नमुने की दिनांक /Date of sample received

परीक्षण समय /Test Duration

जमूने की मात्रा /Qty of sample received

प्राप्त नमूने की स्थिति /Condition of receipt of sample

अन्य विवरण/Any other details

: 40 mm, Class-3

: 10011851

· Nil

: 21.02.2018

: 23.02.2018 to 20.03.2018

: 1 mtr. x 01 No.

: Good

: Nil

#### Note:

This report, in full or part, shall not be published, advertised, used for any legal action, unless prior permission has been secured.

This test report is only for the sample tested

### PART - B

#### SUPPLEMENTRY INFORMATIONS

a) Reference to sampling procedure wherever applicable Supporting documents for the measurements taken and

Results derived like graphs, tables, sketches and/or Photographs as appropriate to test report, if any (to be attached).

c)

Supplied by the party As given in Part-C

Deviation from the test methods as prescribed in

Relevant work instruction, if any

Nil

निरंतर ....२ Contd....2

Subha Jayaraman - (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

Dr. Sandesh Kumar Jain - Director & Head अधिकृत हस्ताक्षर /Authorised Signatory

# ्रेल इन्स्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एवं टैक्नॉलाजी

(रसायन एवं उर्वरक मंत्रालय,भारत सरकार) बी-२७, अमीसी इन्डस्ट्रियल एरिया, लखनऊ-२२६ ०

फोन : २४३६६१०, २४३७६४५-६ फैक्स : ६१-५२२-२४३६२२७



CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY

> Ministry of Chemical & Fertilizers, Govt. of India B-27, Amausi Industrial Area, Lucknow - 226 008

> > e-mail: cipetlko@satyam.net.in Phone: 2436910, 2437645-6 FAX: 91-522-2436227

TEST CERTIFICATE



NO.

B-0978

Date: 10.10.2011

Issued to :

M/s Vectus Industries Ltd.,

Plot No.412-414,

Shri Developers Industrial Estate, Mahuakhera Ganj, Kashipur, (US Nagar) U.K.-244 713

Your Ref.No. & Date : Vectus/Work/CIPET/2011-12

dated: 25.07.2011

TEST REPORT AS PER STANDARD AND AMEND WITH DATE: IS: 15778-2007

TEST F	REPORT NO :0674		Page 1 of 2
a)	Name of the sample	÷	CPVC Compound (for 15 mm CPVC Pipe), CPVC Pipe, Socket, Elbow & Solvent Cement.
b)	Grade / Variety / type / size / class	:	KANEKA CPVC H829
c)	Declared value, if any &		
d)	Code No .	:	-
e)	Batch No. & Date of Manufacture	-,0	
f)	Quantity	9	1 Kg. CPVC Compound with CPVC Pipe- 300mm X 10 Pcs. (B No27061111), Socket-7 Nos., elbow-4 Nos. & Solvent cement (Orange)
g)	Mode of Packing		Wrapped in Cartoon box
n)	Sealed or not		Not sealed.
)	Any other information		Payment received on 27.07.2011
)	Date of receipt of sample		27.07.2011
k)	Date of completion of testing	:	10.10.2011
PART	- B:- SUPPLEMENTARY INFORMATION	S	
a)	Reference to sampling procedure	À	Not Applicable.
b)	Supporting document for the measurement taken & result derived		Not Applicable.
c)	Deviation from the test method as prescribe in relevant work instructions, if any	-	Not Applicable

प्रधान कार्यालय : गिण्डी, चेन्नई - ६०० ०३२

-1-

Corporate Office: Guindy, Chennai - 600 032

## दूल इन्स्टीट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एवं टैक्नॉलाजी

(रसायन एवं उर्वरक मंत्रालय,भारत सरकार) बी-२७, अमीसी इन्डस्ट्रियल एरिया, लखनऊ-२२६ ०

फोन : २४३६६१०, २४३७६४५-६ फैक्स : ६१-५२२-२४३६२२७



CENTRAL INSTITUTE OF PLASTICS **ENGINEERING & TECHNOLOGY** 

> Ministry of Chemical & Fertilizers, Govt. of India B-27, Amausi Industrial Area, Lucknow - 226 008

e-mail: cipetlko@satyam.net.in Phone: 2436910, 2437645-6

FAX: 91-522-2436227





NO.

B-0978

Date: 10.10.2011

PART - C :- TEST RESULTS

### TEST REPORT NO. 0674

Page 2 of 2

S. No	Clause	Name of the test	Testing Method	Unit	Specified Value	Test Value Obtained
1.	6.3.1	Chlorine Content	IS: 15778- 2007	%	Shall not be less than 60.0	62.24
2.	8.1.5	Appearance	IS-15225-02	-	Should be satisfactory	Satisfactory
3.	8.2.1	Vicat Softening Point	IS-15225-02	°C	110 + 2	111.2
4.	8.2.2	Charpy Test	IS-15225-02	KJ/m <sup>2</sup>	> 4.0 to 8.0	6.4
5.	8.2.3	Tensile Strength	IS-15225-02	MPa	> 45 to 55	52.0
6.	8.2.4	Tensile Modulus	IS-15225-02	MPa	> 2000 to 2500	2385.3
7.	8.3	Ash Content	IS-15225-02	%	6 (Max.)	3.40
8.	6.3.3	Density	IS: 15778- 2007	Kg/m3	Shall be between 1450 Kg/m³ & 1650 Kg/m³	1460.0
9.	6.3.2	Verification of the Malfunction temperature (At 1000 hrs.)	IS: 15778- 2007	-	Shall not leak during the prescribed test specimen	Passed

PART - D: REMARKS

NIL

AUTHORIZED SIGNATORY

NOTE:

The results relate only to the items tested as supplied by the party.

The test certificate shall not be reproduced in full except without the written approval of the laboratory.

प्रधान कार्यालय : गिण्डी, चेन्नई - ६०० ०३२

-2-

Corporate Office : Guindy, Chennal - 600 032



# सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नोलॉजी

(रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

जी-सेक्टर, गोविन्दपुरा औद्योगिक क्षेत्र, भोपाल-462 023

फोन : 2687454, 4028629 फैक्स : 91-755-2689041 ई-मेल : cipet.bhopal@gmail.com Central Institute of Plastics Engineering & Technology

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India)
'G' Sector, Govindpura Industrial Area, Bhopal - 462 023 (M. P.)

Phone: 2687454, 4028629 Fax: 91-755-2689041 E-mail: cipet.bhopal@gmail.com Certificate No.: T

Series: D

PLASTIC TESTING CENTRE TEST CERTIFICATE 丣.No. 12815

Issued to M/s Vectus Industries Ltd. Plot No. 41/42 Industrial Area, Banmore, Dist - Morena (M.P.)



टेस्ट रिपोर्ट नं. 20289 A दिनांक: 20.12.2017 पेज नं. 1 of 4

**TEST REPORT AS PER IS: 4984 - 2016** 

### PART - A

#### PARTICULARS OF SAMPLE SUBMITTED

नमूना विवरण/Sample details : High Density Polyethylene Pipes for Potable Water Supplies.
- As stated by party

अपन्य रांतर्भ क्यांक : Nil दिनांक : 04.09.2017

बेड /वेरेटी/टाईप/ साईज /वलास/

Grade/Variety/Type/Size/Class

elic oi, /Lot No./Batch No.

: PE63, PN 6, SDR 13.6 DN 32mm

01091731

उत्पादकता की दिलांक /Date of manufacturing

. .

प्राप्त नगुने की दिनांक /Date of sample received

25.10.2017

परीक्षण सगरा /Test Duration

: 25.10.2017 to 20.12.2017

ज्ञमुजे की मात्रा (Qty of sample received

: 01 mtr. x 10 Nos

प्राप्त नमुने की श्थित (Condition of receipt of sample

: Good

अञ्च तितरण:Any other details

: Nil

#### Note:

- This report, in full or part, shall not be published, advertised, used for any legal action, unless prior permission has been secured.
- 2. This test report is only for the sample tested

#### PART - B

#### SUPPLEMENTRY INFORMATIONS

Reference to sampling procedure wherever applicable
 Supporting documents for the measurements taken and

Supplied by the party As given in Part-C

Results derived like graphs, tables, sketches and/or Photographs as appropriate to test report, if any (to be attached).

.

Deviation from the test methods as prescribed in

Nil

Relevant work instruction, if any

जिरतर . २ Contd ... 2

Subha Jayaraman – (S.T.O.) अधिकृत हस्तासर / Authorised Signatory

Dr. Sandesh Kumar Jain – Director & Head अधिकृत हस्ताक्षर / Authorised Signatory

# स्रिपेट, भोपाल



# Continuation Sheet



# CIPET, BHOPAL

टेस्ट रिपोर्ट नं. 20289 A दिनांक. 20.12.2017 पेज नं. 2 of,4

			PAR	T-C	
		TEST REPO	RT AS I	PER IS: 498	4 - 2016
S.No	Clause	Name of the test	Unit	Test value obtained	Specified Requirement
01.	6.2	Colour		Conforms	Shall be black with blue identification strip
02.	6.2.1	Identification of stripes			***
		Width of stripes	mm	Conforms 4.0	Min. of three longitudinal stripes of minimum width of 3 mm in blue color, circumferentially distributed
		Depth of stripes	mm	0.18	Shall not preferably be more than 0.2 mm in depth for wall thickness up to 10 mm and 0.5 mm beyond 10 mm
03.	7.1	a. Visual appearance	-	Conforms	The internal and external surfaces of pipe shall be smooth, clean and free from grooving and othe defects. The ends shall be cleanly cut and shall be square with axis of the pipe to with in the tolerance given below and free from deformity Slight shallow longitudinal grooves or irregularities in the wall thickness shall be permissible, provided that the wall thickness remains within the permissible limits.
		b. Maximum out of square of pipe end	mm	0.37	2.0
04.	7.2	Length	mtr	1	The length of straight pipe shall be 5m to 20m as agreed to between the manufacturer and purchaser. Short lengths of 3 m (minimum) up to the maximum of 10 percent of the total supply may be permitted.
05.	7.4	Dimension of pipe			
	Table-3	Outside diameter Minimum dem	mm	32.08	32.0
		Maximum dem	mm	32.20	32.3
		Max Out of roundness (Ovality)	mm	0.12	1.3
06.	Table-4	Wall thickness			
		Minimum	mm	2.61	2.4
		Maximum	mm	2.70	2.7

निरंतर ३ Contd....3

Subha Jayaraman - (S.T.O.) अधिकृत हस्ताक्षर / Authorised Signatory Dr. Sandesh Kumar Jath - Director & Head अधिकृत हस्ताक्षर / Authorised Signatory

1

# सिपेट, भोपाल



# Continuation Sheet

# CIPET, BHOPAL



टेस्ट रिपोर्ट नं 20289 A दिनांक. 20.12.2017 पेज नं. 3 of 4

-			PART	-C	पज न. 3 of 4
E AT		TEST REPOR	TASP	ER IS: 4984	-2016
S.No	- Conduse	Name of the test	Unit	Test value obtained	Specified Requirement
07.	8.0 Table- 5	Hydraulic characteristics	1	Ubtained	
08.	8.1.1	Internal Pressure creep rupture	toct of ni	10	
	(Annex- F)	stress for 100 hours at 27° C.  Pressure: 11.4 kg/cm <sup>2</sup>	•	Conforms	Pipe shall show no sign of localized swelling leakage or weeping and shall not burst during the prescribed test duration
		ii) Type test at 3.5 MPa induced stress for 165 hours at 80° C Pressure: 5.7 kg/cm <sup>2</sup>		Conforms	Pipe shall show no sign of localized swelling leakage or weeping and shall not burst during the prescribed test duration
		iii) Type test at 3.2 MPa induced stress for 1000 hours at 80° C Pressure: 5.2 kg/cm <sup>2</sup>		Conforms	Pipe shall show no sign of localized swelling leakage or weeping and shall not burst during the prescribed test duration
		iv)Acceptance test at 3.8 MPa induced stress for 48 hours at 80° C Pressure : 6.2 kg/cm <sup>2</sup>		Conforms	Pipe shall show no sign of localized swelling leakage or weeping and shall not burst during the prescribed test duration
10.	8.1.2 (Annex- E)	Internal Pressure creep rupture test of pipe joints @ 3.8 MPa induced stress for 48 hours at 80° C		NA	The pipe joint under test shall show no signs of localized swelling, leakage or weeping and shall not burst during the prescribed test period
11.	8.2 (Annex-F)	Longitudinal Reversion test	%	1.4	Shall not be greater than 3 %
12	8.3	Carbon Black Content	%	2.23	Shall be within 2.5 ± 0.5 %
		Carbon Black Dispersion		Satisfactory	Shall be satisfactory
13.	8.4	Melt flow rate	g/10 min	1.08	Shall be between 0.2 to 1.1 g/10mm.
14.	8.5 (Annex-B)	Oxidation Induction Time		>20	Shall be not less than 20 min.
15.	8.6	Overall migration test	mg/l mg/dm²	34.0 3.40	60 (max) 10 (max)
16.	8.7	Density	kg/m³	950.85	Shall be between 930.0 to 960.0
17.	8.8 (Annex-G)	Tensile strength for butt-fusion	•	NA	Test specimens prepared by punching/machining from pipe butt -fusior sample preferably 110 mm Dia/SDR 11 shall be ductile failure. If the sample shows brittle fail the test may be considered as a failure.

िरंतर ... ४ Contd... 4

Subha Jayaraman - (S.T.O.) अधिकृत हस्ताक्षर / Authorised Signatory

Dr. Sandesh Kumar Jain – Director & Head अधिकृत हस्ताक्षर / Authorised Signatory

1

# सिपेट, भोपाल



# Continuation Sheet

# CIPET, BHOPAL

टेस्ट रिपोर्ट नं. 20289 A दिनांक. 20.12.2017 पेज नं. 4 of 4

			PART	'- C	
CN	7	TEST REPOR	T AS PI	ER IS: 4984	- 2016
S.No	Clause	Name of the test	Unit	Test value obtained	
18.	8.9 (Annex-H) Table-6	Elongation at break	%	391.5	> 350 %
19.	8.10 (Annex-E)	Slow Crack Growth Rate for 500 hrs. at 80°C.		NA	Pipe shall show no sign of localized swelling, leakage or weeping and shall not burst during the prescribed test duration
			PART	- D	
Remar	ks: NA - No	ot Applicable	-		

#### Note:

- Selection of samples for individual test have been done in accordance with respective clauses of IS: 4984-2016.
- 2. Details of test sub-contracted: Nil
- 3. Remnant samples will be disposed after 3 months from the date of issue of test report.

Subha Jayaraman – (S.T.O.) अधिकृत हस्ताक्षर / Authorised Signatory

Dr. Sandesh Kumar Jain - Director & Head अधिकृत हस्ताक्षर / Authorised Signatory CIPET H To

सेन्ट्रल इंस्टीट्यूट ऑफ प्लास्टिक्स इन्जीनियरिंग एण्ड टेक्नोलॉजी (रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

जी-सेक्टर, गोविन्दपुरा औद्योगिक क्षेत्र, भोपाल-462 023

फोन : 2687454, 4028629 फैक्स : 91-755-2689041 ई-मेल : cipet.bhopal@gmail.com Central Institute of Plastics Engineering & Technology

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India)

'G' Sector, Govindpura Industrial Area, Bhopal - 462 023 (M. P.) Phone: 2687454, 4028629 Fax: 91-755-2689041 E-mail: cipet.bhopal@gmail.comCertificate No.: TC-6378

Series: D

PLASTIC TESTING CENTRE TEST CERTIFICATE

13122

Sh. No.

Issued to M/s Vectus Industries Ltd. Plot No. 26 Sector 2 IIE Sidcul, Haridwar - 249403 (U.K.)



Test Report No -20465 Date: 15.02.2018 Page No. - 1 of 3

TEST REPORT AS PER IS: 15801:2008 with latest Amendment 1

#### PART - A

: PPR Pipe 25 mm SDR-6 (PN-20)

#### PARTICULARS OF SAMPLE SUBMITTED

जमूना विवरण / Sample details: Polypropylene Random Copolymer Pipes, for Hot and cold water supply - As stated by party.

> Your Ref: Vectus/Works/2017-18/SJ/425 & E-mail Vectus/QA/CIPET/1013/2017-2018

: 13.10.2017, 20.11.2017

ग्रेड |वेरेटी/टाईप/ साईज |वलास/

Grade/Variety/Type/Size/Class

वेत लं /Batch No.

उत्पादकता की दिनांक /Date of manufacturing

प्राप्त नमूने की दिनांक /Date of sample received

प्रीक्षण समय /Test Duration

नमुने की मात्रा /Qty of sample received

: 1 mtr x 10 nos प्राप्त नमुने की स्थिति /Condition of receipt of sample: Good

अन्य विवरण/Any other details

13101741

: 21.11.2017

: Nil

Note:

This report, in full or part, shall not be published, advertised, used for any legal action, unless prior permission has been secured.

This test report is only for the sample tested.

### PART - B

: 21.11.2017 to 14.02.2018

#### SUPPLEMENTRY INFORMATIONS

a) Reference to sampling procedure wherever applicable b)

Supporting documents for the measurements taken and Results derived like graphs, tables, sketches and/or Photographs as appropriate to test report, if any

(to be attached).

(c) Deviation from the test methods as prescribed in

Relevant work instruction, if any

Supplied by the party

As given in Part-C

Nil

til has. Subha Jayaraman- (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory

Dr. Sandesh Kumar Jain - Director & Head अधिकृत हस्ताक्षर /Authorised Signatory

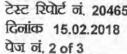
निरंतर र Contd. 2

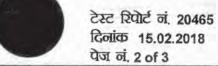
# सिपेट, भोपाल



# Continuation Sheet

# CIPET, BHOPAL





		Test Results as pe	er IS-15801-200	8 with late	st Amendment	1
S. No	Clause	Name of the test	Testing method	Unit	Test value obtained	Specified Requirement
1.	6.6 (ii)	Overall Migration	IS:9845 & IS:10910	mg/ltr	36.8	60.0 (max.)
2.	7.1 Table-1	Dimension of Pipe  a) Out side diameter b) Tolerance c) Ovality (Max.)	IS:15801- 2008	mm mm mm	25.24 (+) 0.24 0.17	25.0 (+) 0.3 1.2
	7.2 Table- 2	Wall thickness of pipe Min Max	IS:15801- 2008	mm mm	4.45 4.61	4.20 4.90
	7.4	Length of Straight pipe	IS:15801- 2008	mm	1000	Tolerance (+) 10
3.	8.0	Visual Appearance	IS:15801- 2008		Conforms	The internal & external surface of pipes shall smooth, clean & free from grooving & other defects. Ends shall be cleanly cut & square with axis of pipes.
4.	Hydrauli		Creep Rupture	Test)		
	9.1	1)Type Test At 3.8 Mpa induced stress for 165 Hrs at 95° C Pressure: 15.65 kg/cm <sup>2</sup>	IS:12235 Pt.8/sec.1	*	Conforms	Pipes under test shall show no sign of localized swelling leakage or weeping & shall not burst during the prescribed tests duration.
		ii)Type Test At 3.5 Mpa induced stress for 1000 hrs at 95 °C Pressure: 14.41 kg/cm <sup>2</sup>	IS:12235 Pt8/sec.1	-	Conforms	Pipes under test shall show no sign of localized swelling leakage or weeping & shall not burst during the prescribed tests duration.
		iii) Acceptence test at 16 Mpa induced stress for 1 hour at 20°C Pressure: 65.90 kg/cm <sup>2</sup>	IS:12235 Pt8/sec.1		Conforms	Pipes under test shall show no sign of localized swelling leakage or weeping & shall not burst during the prescribed tests duration
		iv) Acceptence test at 4.3 Mpa induced stress for 22 hours at 95 °C Pressure: 17.7 kg/cm <sup>2</sup>	IS:12235 Pt8/sec.1		Conforms	Pipes under test shall show no sign of localized swelling leakage or weeping & shall not burst during the prescribed tests duration
5.	9.3	Reversion Test	IS:15801 Pt. 5/sec, 1	%	1.28	Should not be greater than 2%
6.	9.4	Impact Strength (Charpy Impact Test) 15J, Velocity 3.8 m/s	IS:13360 Part 5/sec 5	%	Passed	Number of failure shall not exceed 10 % of the specimen tested.

Contd.....3

Subley.

Subha Jayaraman- (S.T.O.) अधिकृत हस्ताक्षर /Authorised Signatory Dr. Sandesh Kumar Jain - Director & Head ਤਾਇਕਰੂਰ ਫੁਣਰਫ਼ਿਤ /Authorised Signatory

# सिपेट, भोपाल



## Continuation Sheet

# CIPET, BHOPAL

टेस्ट रिपोर्ट नं. 20465 दिनांक 15.02.2018 पेज नं 3 of 3

		Test Results as	per IS-15801-20	008 with late	est Amendment	1
S. No.	Clause	Name of the test	Testing method	Unit	Test value obtained	Specified Requirement
7.	9.5	Density of Pipe at 27°C	IS:12235 Pt.14	kg/m³	904.0	900.0 to 910.0 (Except black pipe) 900.0 to 925 (for black pipe)
8.	9.6	Melt Flow Rate At 230°C with load of 2.16 kgf	IS-13360- Pt-4/sec. 01	gm/10 min.	0.30	Shall be ≤ 0.5 from a composite sample
9.	9.9	Opacity	IS:12235 Pt.3	%	0.10	Shall not transmit more than 0.2% of visible light

Note:

1. Selection of samples for individual test have been done in accordance with respective clauses of IS: 15801-2008 with latest Amendment 1.

2. Details of test sub-contracted: Nil

3. Remnant samples will be disposed after 3 months from the date of issue of test report.

Subha Jayaraman- (S.T.O.)

अधिकृत हस्ताक्षर /Authorised Signatory

Dr. Sandesh Kumar Jain - Director & Head अधिकृत हस्ताक्षर /Authorised Signatory



**Inspection Certificates** 

STANDARD REFERENCE. AS PER ASTM D 2846														
NAME OF DEPARTMENT   Standarks Urban water supply and drainage board   NAME OF CONSULTANT   Standarks Urban water supply and drainage board   NAME OF CONSULTANT   Standarks Urban water supply and drainage board   NAME OF CONSULTANT   Standarks Urban water supply and drainage board   NAME OF CONSULTANT   Standarks Urban water supply and drainage board   NAME OF CONSULTANT   Standard   NAME OF CONSULTANT   NAME					STAN	DARD REFEREN	CE- AS PER AST	M D 28	46					
NAME OF DEPARTMENT   Skarnataka Urban water supply and drainage board   NAME OF CONSULTANT   SM/s IPE GLOBAL LTD					lor	NT INSPECTION	<b>DIMENSIONS R</b>	REPORT						
NAME OF PROJECT   : Mandya WSS Project.   : Mandya WSS Project.   : Mandya WSS Project.   : Wectus Industries limited   : Supplier DETAIL   : Vectus Industries limited   : Suza   :		NAME OF	DEPARTMEN	<b>-</b>		: Karnataka Urbar	water supply and	drainag	ge boar	Ld.				
NAME OF PROJECT   Namelya WSS Project.   Namelya WSS Project   Namelya WSS Proje		NAME OF	CONSULTAN	_		: M/s IPE GLOBAL	LTD							
State   Color   Colo		NAME OF	PROJECT			: Mandya WSS Pro	oject.							
SIZE   SOCKET   SOC		MANUFAC	TURER & SUF	PLIER DETAIL		: Vectus Industrie	s limited							
SOCKET ENTREMENTED	Ī	DATE OF II	NSPECTION											
Socket bottom dia in socket length in luner diameter         MAL THICKNESS in mm           Socket entrance dia in socket bottom dia in socket length in luner diameter         MAL THICKNESS in mm           mm         MAL THICKNESS in mm           min         mm         MAL THICKNESS in mm           min         mm         In mm         MAL THICKNESS in mm           min         mm         MAL THICKNESS in mm           min         mm         MAL THICKNESS in mm           Mal Marking         MAL THICKNESS in mm           MAL THICKNESS in mm         in mm         MAL THICKNESS in mm           min         marking         MAL THICKNESS in mm           MAL THICKNESS in mm         in mm         MAL THICKNESS in mm           MAL THICKNESS in mm         MAL THICKNESS in mm           MAL THICKNESS in mm         MAL THICKNESS in mm         MAL THICKNESS in mm         MAL THICKNESS in mm         MAL THICKNESS in mm         MAL THICKNESS in mm         MAL THICKNESS in mm         MAL THICKN		SIZE				: CPVC ELBOW 15	MM							
QUANTITY           Socket bottom dia in mm         in mm         In mm         MALL THICKNESS in mm           mm         in mm         MALL THICKNESS in mm           AGORET BOTTOM dia in mm         in mm         MALL THICKNESS in mm           AGORET BOTTOM dia in mm         in mm         MALL THICKNESS in mm           AGORET BOTTOM dia in mm         SOCKET		BATCH NO												
Socket bottom dia in         Socket length in         In mm         NALL THICKNESS in mm           min         max         mm         in mm         Soc entr         Soc entr         Soc bottom         Body           16.00         16.06         15.64         15.80         12.70         12.42         1.73         2.59         3.25           16.00         16.16         15.64         15.80         12.75         12.42         1.73         2.59         3.25           16.10         16.15         15.67         15.80         12.75         12.42         1.76         2.61         2.72         3.26         3.29           16.10         16.15         15.72         12.78         12.42         1.74         1.76         2.61         2.72         3.26         3.29           16.10         16.15         15.72         12.78         12.46         1.76         1.76         1.78         3.26         3.20           16.10         16.15         15.72         15.79         12.78         12.42         1.76         1.81         2.62         2.72         3.26         3.30           16.11         16.15         15.72         12.78         12.78		QUANTITY				: 74000 NO.	4							
min         max         mm         in mm         MALL THICKNESS in mm           16.00         16.16         15.64         15.80         12.70         12.42         1.73         2.59         3.25           16.00         16.16         15.64         15.80         12.75         12.42         1.73         1.76         2.59         3.25           16.10         16.12         15.66         15.80         12.75         12.45         1.73         1.76         2.61         2.72         3.26         3.25           16.11         16.15         15.72         15.80         12.75         12.45         1.78         1.85         1.92         2.62         2.72         3.27         3.20           16.11         16.15         15.72         15.79         12.75         12.46         1.76         1.85         2.62         2.72         3.27         3.29         3.20           16.10         16.16         15.67         15.79         12.78         12.45         1.76         1.81         2.62         2.72         3.29         3.20           16.10         16.16         15.67         15.79         12.78         12.45         1.76         1.81         2.61         2.75		Socket ent	trance dia in	Socket botto	om dia in	Socket length in	Inner diameter							
max         min         max         12.70         12.42         1.73         2.59         3.25           16.16         15.64         15.80         12.70         12.42         1.73         2.59         3.25           16.16         15.64         15.80         12.75         12.42         1.73         1.76         2.61         2.72         3.26         3.29           1 16.15         15.61         15.79         12.75         12.45         1.76         1.76         2.62         2.72         3.26         3.29           1 16.15         15.72         15.79         12.75         12.45         1.76         1.76         1.78         3.25         3.29           1 16.15         15.72         15.79         12.78         12.45         1.76         1.88         2.65         2.75         3.25         3.29           1 16.15         15.67         15.79         12.78         12.45         1.76         1.88         2.65         2.75         3.26         3.30           1 16.15         15.67         15.79         12.78         12.45         1.76         1.88         2.62         2.75         3.26         3.29           1 16.15         15.67         <	Sr.N	_	nm	mm		mm	in mm		WALL.	THICKNE	SS in m	ш	VISUA	
16.16         15.64         15.80         12.70         12.42         1.73         1.76         2.59         3.25         3.25           16.12         15.66         15.80         12.75         12.42         1.73         1.76         2.61         2.72         3.26         3.29           16.16         15.67         15.80         12.78         12.45         1.85         1.92         2.62         2.72         3.26         3.29           1         16.15         15.72         12.78         12.45         1.76         1.78         2.62         2.72         3.26         3.29           1         16.15         15.72         12.78         12.45         1.76         1.88         2.65         2.72         3.29         3.29           1         16.16         15.67         12.78         12.75         12.45         1.76         1.88         2.65         2.72         3.29         3.30           1         16.15         15.79         12.78         12.45         1.76         1.88         2.65         2.72         3.26         3.29           1         16.15         15.79         12.78         12.45         1.76         1.88         2.65 <td< td=""><td>_</td><td>min</td><td>max</td><td></td><td>max</td><td></td><td></td><td>Soce</td><td></td><td>oc botte</td><td>E</td><td>Body</td><td>APPERAI</td><td>NCE</td></td<>	_	min	max		max			Soce		oc botte	E	Body	APPERAI	NCE
5         16.12         15.66         15.80         12.75         12.45         1.73         1.76         2.61         2.72         3.26         3.29           16.16         15.67         15.80         12.78         12.45         1.85         1.92         2.62         2.72         3.26         3.30           16.16         15.72         15.79         12.78         12.45         1.76         1.78         2.62         2.72         3.29         3.28           16.16         15.72         15.79         12.78         12.45         1.76         1.8         2.65         2.74         3.29         3.28           16.16         15.67         15.79         12.75         12.45         1.76         1.8         2.65         2.7         3.29         3.30           2 16.15         15.67         15.79         12.78         12.46         1.76         1.8         2.62         2.7         3.29         3.30           2 16.15         15.72         15.79         12.78         12.78         1.76         1.8         2.65         2.7         3.2         3.2           2 16.15         15.72         15.80         12.78         12.45         1.7         1.8		16.00	16.16	15.64	15.80	12.70	12.42	1.7	8	2.59		3.25		
16.16         15.67         15.80         12.78         12.45         1.85         1.92         2.62         2.72         3.27         3.30           1         16.15         15.72         15.79         12.75         12.46         1.76         1.78         2.64         2.75         3.26         3.30           1         16.15         15.72         15.79         12.78         12.45         1.76         1.81         2.65         2.74         3.25         3.28           0         16.16         15.67         15.79         12.78         12.45         1.76         1.88         2.65         2.75         3.29         3.30           1         16.16         15.66         15.79         12.78         12.45         1.76         1.88         2.65         2.75         3.29         3.30           1         16.15         15.79         12.78         12.45         1.76         1.88         2.62         2.75         3.26         3.30           1         16.15         15.79         12.78         12.45         1.76         1.88         2.65         2.75         3.26         3.29           1         16.15         15.80         12.78         12.74	1	16.05		15.66	15.80	12.75	12.42	1.73	1.76					ory
16.15         15.72         15.79         12.75         12.46         1.76         1.78         2.64         2.75         3.26         3.30           16.15         15.72         15.79         12.78         12.42         1.78         1.81         2.65         2.74         3.25         3.28           16.16         15.67         15.79         12.78         12.46         1.74         1.81         2.65         2.75         3.29         3.30           2         16.16         15.67         15.79         12.78         12.46         1.74         1.81         2.61         2.72         3.29         3.30           2         16.15         15.79         12.78         12.45         1.76         1.81         2.62         2.72         3.26         3.30           3         16.15         15.72         15.79         12.78         12.45         1.76         1.81         2.62         2.75         3.26         3.29           4         16.15         15.72         15.80         12.78         12.45         1.76         1.81         2.64         2.75         3.26         3.29           4         16.15         15.88         15.80         12.78         <	7	16.10			15.80	12.78	12.45	1.85	1.92					ory
16.15         15.72         15.79         12.78         12.42         1.78         1.81         2.65         2.74         3.25         3.28           0         16.16         15.67         15.79         12.78         12.45         1.76         1.88         2.65         2.75         3.29         3.29           0         16.15         15.79         12.78         12.46         1.74         1.81         2.61         2.72         3.29         3.30           1         16.15         15.79         12.78         12.45         1.76         1.88         2.62         2.72         3.26         3.30           1         16.15         15.79         12.78         12.45         1.76         1.88         2.62         2.75         3.26         3.28           1         16.15         15.79         12.78         12.45         1.76         1.88         2.65         2.75         3.26         3.29           1         16.15         15.80         12.78         12.45         1.76         1.89         2.65         2.75         3.25         3.30           1         16.15         15.89         12.78         12.42         1.74         1.80         2.65 <td>3</td> <td>16.11</td> <td></td> <td>15.72</td> <td>15.79</td> <td>12.75</td> <td>12.46</td> <td>1.76</td> <td>1.78</td> <td>100</td> <td></td> <td></td> <td></td> <td>ory</td>	3	16.11		15.72	15.79	12.75	12.46	1.76	1.78	100				ory
16.16         15.67         15.79         12.75         12.45         1.76         1.88         2.65         2.75         3.27         3.29         3.29           0         16.16         15.66         15.79         12.78         12.46         1.74         1.81         2.61         2.72         3.29         3.30           2         16.15         15.72         15.79         12.75         12.45         1.76         1.88         2.62         2.72         3.26         3.30           3         16.15         15.72         15.79         12.78         12.45         1.76         1.81         2.64         2.75         3.26         3.29           4         16.15         15.72         15.80         12.75         12.46         1.76         1.88         2.65         2.74         3.26         3.29           1         16.15         15.80         12.78         12.42         1.74         1.80         2.65         2.75         3.26         3.29           1         16.15         15.80         12.78         12.42         1.74         1.80         2.65         2.75         3.26         3.20	4	16.11		15.72	15.79	12.78	12.42	1.78	1.81					ory
16.16         15.66         15.79         12.78         12.46         1.74         1.81         2.61         2.72         3.29         3.30           2         16.15         15.72         15.79         12.75         12.42         1.76         1.88         2.62         2.72         3.26         3.30           3         16.15         15.72         15.79         12.78         12.45         1.76         1.81         2.64         2.75         3.28         3.28           1         16.15         15.72         15.80         12.75         12.46         1.76         1.88         2.65         2.74         3.26         3.29           1         16.15         15.68         15.80         12.78         12.42         1.74         1.80         2.65         2.75         3.25         3.30	2	16.10		15.67	15.79	12.75	12.45	1.76	1.88					ory
2       16.15       15.79       12.75       12.42       1.76       1.88       2.62       2.72       3.26       3.30         5       16.15       15.72       15.79       12.78       12.45       1.78       1.81       2.64       2.75       3.28       3.28         7       16.15       15.80       12.75       12.46       1.76       1.88       2.65       2.74       3.26       3.29         1       16.15       15.68       15.80       12.78       12.42       1.74       1.80       2.65       2.75       3.25       3.30         VECTUS INDUSTRIES LIMITED	9	16.10			15.79	12.78	12.46	1.74	1.81					ory
16.15 15.72 15.80 12.78 12.45 1.78 1.81 2.64 2.75 3.27 3.28 16.15 15.15 15.80 12.75 12.45 1.76 1.88 2.65 2.74 3.26 3.29 16.15 15.68 15.80 12.78 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.78 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 12.42 1.74 1.80 2.65 2.75 3.25 3.30 12.42 12.42 1.74 1.80 12.42 1.74 1.74 1.80 12.42 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.74	7	16.12		15.67	15.79	12.75	12.42	1.76	1.88					ory
7         16.15         15.72         15.80         12.75         12.46         1.76         1.88         2.65         2.74         3.26         3.29           1         16.15         15.68         15.80         12.78         12.42         1.74         1.80         2.65         2.75         3.25         3.30	8	16.05		15.72	15.79	12.78	12.45	1.78	1.81	-	> -			ory
1 16.15 15.68 15.80 12.78 12.42 1.74 1.80 2.65 2.75 3.25 3.30  VECTUS INDUSTRIES LIMITED  IPE GLOBAL LTD  PDMC AMRUI, KARNATAKA	6	16.07		15.72	15.80	12.75	12.46	1.76	1.88					ory
VECTUS INDUSTRIES LIMITED	10	16.11		15.68	15.80	12.78	12.42	1.74	1.80					ory
	A.C.	larking- Incharge		CTUS INDUS	TRIES LIN	Carlo Single Sin			-	IPF GLO	BALLT	Q		
	Vectu	is Ind Ltd.								PDMC AMI	UI, KAR	NATAKA		

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			JOIN I INSPECTION		IMENSION REPOR	DIMENSION REPORT FOR CPVC FITTINGS AT VECTUS IND LTD	INGS AT V	/ECTU	SINDLT	Q		
		7		STAN	NDARD REFERENCE- AS PER ASTM D 2846	CE- AS PER AST	M D 2846					
				lor	JOINT INSPECTION DIMENSIONS REPORT	<b>DIMENSIONS R</b>	EPORT					
	NAME OF L	NAME OF DEPARTMENT	-		: Karnataka Urban water supply and drainage board	water supply and	drainage	oard				
	NAME OF C	NAME OF CONSULTANT	ь		: M/s IPE GLOBAL LTD	LTD						
	NAME OF PROJECT	ROJECT			: Mandya WSS Project.	ject.						
	MANUFACI	<b>TURER &amp; SU</b>	MANUFACTURER & SUPPLIER DETAIL		: Vectus Industries limited	limited						
	DATE OF INSPECTION	ISPECTION										
	SIZE				: CPVC UNION 1/2"	=						
	BATCH NO											
	QUANTITY				: 18500 NO.	ç						
Y	Socket enti	Socket entrance dia in	Socket bottom dia in	om dia in	Socket length in	Inner diameter						
Sr.N	Ε	mm	mm		. mm	in mm	W	<b>VLL THI</b>	WALL THICKNESS in mm	in mm		VISUAL
o.	min	max	min	max			Soc entr	Soc	Soc bottom	Bo	Body	APPERANCE
	16.00	16.16	15.64	15.80	12.70	12.42	1.73		2.59	3.25	25	
Н	16.05	16.12	15.66	15.80	12.75	12.42	1.73 1.76		2.61 2.72	3.26	3.29	Satisfactory
7	16.10	16.16	15.67	15.80	12.78	12.45	1.85 1.92		2.62 2.72	3.27	3.30	Satisfactory
3	16.11	16.15	15.72	15.79	12.75	12.46	1.76 1.78		2.64 2.75	3.26	3.30	Satisfactory
4	16.11	16.15	15.72	15.79	12.78	12.42	1.78 1.81		2.65 2.74	3.25	3.28	Satisfactory
2	16.10	16.16	15.67	15.79	12.75	12.45	1.76 1.88		2.65 2.75	3.27	3.29	Satisfactory
9	16.10	16.16	15.66	15.79	12.78	12.46	1.74 1.81	1 2.61	51 2.72	3.29	3.30	Satisfactory
7	16.12	16.15	15.67	15.79	12.75	12.42	1.76 1.88	8 2.62	52 2.72	3.26	3.30	Satisfactory
∞	16.05	16.15	15.72	15.79	12.78	12.45	1.78 1.81		2.64 2.75	3.27	3.28	Satisfactory
6	16.07	16.15	15.72	15.80	12.75	12.46	1.76 1.88	8 2.65	55 2.74	3.26	3.29	Satisfactory
10	16.11	16.15	15.68	15.80	12.78	12.42	1.74 1.80	0 2.65	55 2.75	3.25	3.30	Satisfactory
A.A.	Marking- Q.A. Incharge	VECTU	VECTUS INDUSTRIES LIMITED	SLIMITE	0				IPEG	IPE GLOBAL LTD	TD	
200	vectus ind Ltd.		1						PDMC A	MKUI, KF	PDMC AMKUI, KAKWAIANA	

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REVIEW. AN ARM SECTION OF THE SECTIO

JOINT	JOINT INSPECTION DIMENSION REPORT FOR CPVC PIPES AT VECTUS IND LTD
	STANDARD REFERENCE- AS PER IS 15778:2007
The second secon	JOINT INSPECTION DIMENSIONS & TESTING REPORT
NAME OF DEPARTMENT :	Karnataka Urban water supply and drainage board
NAME OF CONSULTANT:	M/s IPE GLOBAL LTD
NAME OF PROJECT:	Mandya WSS Project.
MANUFACTURER & SUPPLIER DETAIL:	Vectus Industries limited
DATE OF INSPECTION:	
SIZE :	CPVC PIPE 15 MIM SDR-11 CI-1
BATCH NO. :	
QUANTITY :	13875 mtr

1.Dimension Check up report (Test results as per IS:15778:2007, Clause 7.1.1 & Table2, 7.1.2 & Table2, 7.1.3.1,8.0 & 9.1)

SrNo	Visual Annearance	Pine Fnde	Mean O/D		Wall thickness	less	OD At any point	ny point	11
	commoddy, man	cours advi	(mm)	Min(mm)	Min(mm) Max(mm)	Avg (mm)	Min(mm)	Max(mm)	Length of pipe
Spec	Specified Value		15.80-16.00	1.75	2.20	1.98	15.80	16.00	3 mtr
1	Satisfactory	Square	15.87	1.81	1.92	1.87	>15.80	<16.00	3 mtr
2	Satisfactory	Square	15.88	1.91	1.98	1.94	>15.80	<16.00	3 mtr
3	Satisfactory	Square	15.85	1.88	2.05	. 1.97	>15.80	<16.00	3 mtr
4	Satisfactory	Square	15.81	1.98	2.18	2.08	>15.80	<16.00	3 mtr
5	Satisfactory	Square	15.85	1.78	$2.00^{\circ}$	1.89	>15.80	<16.00	3 mtr
9	Satisfactory	Square	15.93	1.79	1.98	1.89	>15.80	<16.00	3 mtr
7	Satisfactory	Square	15.81	1.84	1.96	1.90	>15.80	<16.00	3 mtr
8	Satisfactory	Square	15.82	1.87	1.98	1.93	>15.80	<16.00	3 mtr
6	Satisfactory	Square	15.90	1.81	1.98	1.90	>15.80	<16.00	3 mtr
10	Satisfactory	Square	15.85	1.92	2.02	1.97	>15.80	<16.00	3 mtr

IPE GLOBAL LTD
PDMC AMPHIT KARNATAKA
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### SGS India Pvt. Ltd.

### Inspection Report

File No: 5007080	Inspection Report No. :- BHO/MUM/VIL/2018/11/28
Place of inspection: At Mfg.'s Work Banmore Ind. Area, Morena (M.P)	Date of inspection: 20/11/2018 & 21/11/2018
Time In: 10:30 A.M 11:00 A.M	Time Out: 06:30 P.M 06:00 P.M
Name of the Project (if any)	AUGMENTATION OF WATER SUPPLY SCHEME UNDER "AMRUT MISSION" RAIPUR WSS PROJECT.
Name of Client	COMMISSIONER, MUNICIPAL CORPORATION OF RAIPUR WSS PROJECT
Name Seller/Manufacturer/ Vendor	M/s Indian Hume Pipe, Construction House "5" Walchand Hirachand Road Ballard Estate, MUNBAI- 400 001 M/s Vectus Industries, Ltd. 26-27, Banmore Industrial Area, Morena (M.P)
Client's / Seller P/O No. & Date	542/Amrut Scheme /Nagar Palika Nigam/18 Raipur Dt. 20.09.2018
Date of last inspection	NA .
Inspection call reference	By e-mail VIL/18-19/14 dt. 14.11.2018
Status of previous hold points / Deviation	NIL
P.O. Status: Completed / Balance / Hold	Completed / Balance

Item # as per Contract / Order	Description & Size	Quantity as per Contract / Order (Mtrs.)	Quantity Previously passed (Mtrs.)	Quantity Now Offered (Mtrs.)	Quantity Now Passed (Mtrs.)	Quantity Rejected (Mtrs.)	Quantity Balance (Mtrs.)
1.	Polythelene- Aluminium- Polythelene (PE-AL-PE) composite pressure pipes confirming to IS: 15450:2004 For 15 mm connection DIA: 1620 Pipes will have pressure rating of 13.8 Kg/Cm² at 23°C and 11.0 Kg/Cm² at 60°C & Shall be Tested for 15 kg/cm²  Batch No.  10081721,19071821,18071821, 16071821, 24051712,13071821, 12061821, 17071821,14071821, 20071821, 20180721,20180724, 20180722 & 20180723	1,24,020	NIL	30,010	30,000	NIL	94,020

10 Mtrs. Pipes consume in testing. P.O States: Balance





7	F-IN-IND-IN-016	Ver : 1.0/01			NO. : R 1	5953	e 1 of 2
S	GS			- 0	DATE : 08.04.		
SG Reg SG: 4B, Pov Mui Tel.	S India Private Limited. gd.& Corp. Office: S House, Adi Shankaracharya Marg, vai Road, Vikhroli (West), mbai - 400 083. : (022) 6640 8888 :: (022) 6640 8829	RELEA	Execu FILE N SE NOTE	ting Bran	M-2/B, 43, M. P. Naga Bhopal-46	R. R. Arcade ar, Zone-II, 2011 (M.P.) :- +91-75525 :- +91-75525	554437
Name &	Address of the Client				s P. Ltd. 3 <sup>rd</sup> F Colony, Bhopa		Complex,
Name of	the Project (if any)	: A.K.\	/.N (M.P)				
Name &	Address of the Manufacturer's		∕ectus Indus strial Area, [		, Unit-II, Plot ena (M.P)	No.41-42,	Banmore,
Contract	/Order No. & Date	: BCW	PL/201903	1601/19 D	t. 16/03/2019		
Date (s)	& Place (s) of inspection				Vectus Indus trial Area, Dis		
Item No. as per Contract / Order	Brief Description of the Item	Quantity As per contract / order (mtrs.)	Quantity Previously Passed (mtrs.)	Quantity Offered (mtrs.)	Quantity Now Passed (mtrs.)	Quantity Rejected (mtrs.)	Quantity Balance (mtrs.)
1.	ISI Marked HDPE Pipe as per the IS: 4984-2016 With Amendment No.1 May-2018 (Fifth Revision)  HDPE Pipes CLASS:- PE 100, PN-6, TYPE OF PIPE-ENDS:- Plain, DN 160 mm, SDR 21 Pipe Length 6 Mtrs. Batch No. 20190318002001, 20190322002001, 20190322002001,	27500	NIL	13800	13752	NIL	13750
This doo to the lim	Status: Balance  cument is issued, on the Client's behalf, by the Contaction of liability, indemnification and jurisdiction der of this document is advised that information cost of Clients instructions, if any. The Company's so	mpany under its Ge issues defined ther ontained hereon re	ein. flects the Compa	ny's findings at	the time of its inter	ent's Attention is	within



### SGS India Pvt. Ltd.

### Inspection Report

File No: 5004779	Inspection Report No.:- BHO/MUM/IHM/2018/06/02
Place of inspection: At Mfg.'s Work Banmore Ind. Area, Morena (M.P)	Date of inspection: 03/06/2018 & 04/06/2018
Time In: 09:00 A.M 09:00 A.M	Time Out: 08:00 P.M 04:00 P.M
Name of the Project (if any)	Korba Water Supply Scheme, Part-II (Under AMRAT MISSION)
Name of Client	OFFICE OF THE MUNICIPAL CORPORATION KORBA (C.G)
Name & Address of contractor's Name & Address of Manufacturer's	M/s Indian Hume Pipe, Construction House "5" Walchand Hirachand Road Ballard Estate, MUNBAI- 400 001 M/s Vectus Industries, Ltd. 26-27, Banmore Industrial Area, Morena (M.P)
Client's / Seller P/O No. & Date	H/993/17-18 Dt. 28.12.2017
Date of last inspection	NA
Inspection call reference	By e-mail dt. 29.05.2018
Status of previous hold points / Deviation	NIL
P.O. Status: Completed / Balance / Hold	Balance

Item # as per Contract/ Order	Description & Size	Quantity as per Contract / Order	Quantity Previously passed	Quantity Now Offered	Quantity Now Passed	Quantity Rejected	Quantity Balance
1.	Polythelene- Aluminium-Polythelene (PE-AL-PE) composite pressure pipes confirming to IS: 15450:2004 For 15 mm connection DIA: 1620 Pipes will have pressure rating of 13.8 Kg/Cm² at 23°C and 11.0 Kg/Cm2 at 60°C & Shall be Tested for 15 kg/cm²	1,74,000 Mtrs.	NIL	30,010 Mtrs.	30,000** Mtrs. Refer Remarks.	NIL	1,44,000 Mtrs.
4	7	1					

10 Mtrs. Pipes consume in testing. P.O States: Balance







### SGS India Pvt. Ltd.

### Inspection Report

File No : 5008760	Inspection Report No. :- MUM/L&T/BIDKIN/BHO/201811/07
Place of inspection: M/s Vectus Industries Ltd., 41-42, Banmor Industrial Area, Gwalior	Date of inspection: 21/11/2018 To 23/11/2018
Time In: 10:30 A.M.	Time Out: 06:30 P.M
Name of the Project (if any)	Bidkin Project, Aurangabad
Name of the Client	Larsen & Toubro Limited, Construction Water & Effluent Treatment P.B No. 979, Mount Poonamallee Road Manapakkam Chennai -600 089
Name of the Seller / Manufacturer / Vendor	M/s Vectus Industries Ltd., 41-42, Banmor Industrial Area, Gwalior (M.P)
Client's P.O. No./ Ref. No. & Date	EG925PO8001738 Dt. 05/11/2018
Date of last inspection	N.A
Inspection call reference	LetterNo.SBIA/BIDKIN/L&T/AURIC/2017/L&T/BIDKIN/01/ 0466 Dt. 19/11/2018 By e-mail dt. 19/11/2018
Status of previous Hold points / Deviation	NIL
P.O. Status: Completed / Balance / Hold	Completed

Item # as per Contract/ Order	Description & Size	Quantity as per Contract / Order (Mtrs.)	Quantity Previously passed (Mtrs.)	Quantity Offered (Mtrs.)	Quantity Now Passed (Mtrs.)	Quantity Rejected (Mtrs.)	Quantity Balance (Mtrs.)
.1	ISI Marked HDPE Pipe as per the IS: 4984-2016 With Amendment No.1 May-2018 (Fifth Revision)						
	HDPE Pipes CLASS:- PE 100, PN6, TYPE OF PIPE-ENDS:- Plain, DN 200 mm, Pipe Length 12 Mtrs. Batch No. 2018111622, 2018111821	9780	NIL	9840	9780	NIL	NIL
2.	HDPE Pipes CLASS:- PE 100, PN6, TYPE OF PIPE-ENDS:- Plain, DN 250 mm Pipe Length 12 Mtrs. Batch No. 2018111922, 2018112021	6220	NIL	6280	6220	NIL	NIL

Uncontrolled document when printed

VF-IN-IND-IN-012 / Ver.1.2/13-08-2018/ Page 11-00-3ND 03

				REPORT NO	1	
JOINT	INSPECTION	ON REPO	ORT	DATE OF INSPEC	CTION 5/9/20	017
				PAGE NO	1	
NAME OF MANUFAC	TURER: VEC	CTUS INDUSTR		no.98/99A,Ist Stage,Va ra Hoblii,Tumkur-57	santhanarasapura Indl.Area 2138,Karnataka	,Nagenahalli
TEST NAME:	WATER TIGHTNESS BETWEEN BASE AN			ACCOMPANYING CO	OMPONENTS & WATER TIC	HTNESS
REFERENCE NO (Star	ndard, instruction, spe	cification etc.):	EN 13598-2			
CUSTOMER NAME :	SHAPPOORJI PALLON	JI AND COMPAN	IY PVT LTD	ORDER NO	4200152333	
PROJECT NAME:	AITL-D&B OF infra	works-MIDC				
PRODUCT NAME:	MANHOLE ( (1000 M	IM DIA)				
PRODUCTION DATE:	10/08/17 TO 28/08/1	7 RAW MATE	RIAL:	16,	. PE	3
FEST INFORMATION	Water tightness between elements and accompanying components	No leakage	Test pressure Testing time	0,1 <i>H</i> bar <sup>d</sup> 15 min	Chamber filled with water to the maximum water table depth recommended by the manufacturer.	
RESULTS	Total no of Qty:-100 N No of sample tested:-1 Sample 1:-	Nog	eakage	zis roi	= Rovel	
DEC YON	Rampie	eis pa	assed	the re	Ramaswamy	0/4
S.Balamurugan Vectus-QA Incharge		/			SGS India Pvt.Ltd	

Date:

Name B.N Ramaswamy
Date Signature
SGS INDIA PVT. LTD BANGALORE
The SGS staups are used as grobservation

Date Signature
SGS INDIA PVT. LTD BANGALORE
The SGS staing and signature and grobservation
Purposes grift and its office and and account of the SGS
General Conditions of Services, particularly article 2 (d),
available at http://sgs.com/terms and conditions.

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प्रधान कार्यालय, पी.डी.आई सेल (रसायन एवं पेट्रोरसायन विमाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

टी.वी.के. औद्योगिक इस्टेट, गिण्डी, चैन्नई 600-032

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ईमेल : pdicipet@gmail.com वेब : www.cipet.gov.in



## CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY Head Office, PDI Cell

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) TVK Industrial Estate, Guindy, Chennai-600 032 Phone: +91-44-22254781/22254779/64629018

E-mail : pdicipet@gmail.com Web : www.cipet.gov.in

CIPET / QF / 7741

Name of the Inspecting Official: Abhishek Rajvansh

Code No.: 906

W.O. Centre: Amritsar

Camp at: M/s Vectus Industries Limited

### **INSPECTION REPORT**

1.	Ref. No.: CIPET:CSTS/DDN/19-20/10/ASR /11/017	:	Date: 06/12/2019
2.	Name of the Indenter / Consignee with detailed address	-:	The superintending Engineer Pb. W/S & Save Circle Patiyala
3.	Indenter Order No. & Date and Extension (if any)	:	4644 dated 30/08/2019
4.	Details of the Consignee	:	The superintending Engineer Pb. W/S & Save Circle Patiyala
5.	Name of the Supplier / Contractor	:	M/s Saini Construction Co. Near Sarla Sethi, College Road, Abohar, Fazlika, Panjab(152116)
6.	Supplier Order No. & Date (if any)	:	SPL-01/2019-20 Dated 12/11/2019
7.	Name and address of the Manufacturer / Inspection site	:	M/s Vectus Industries Limited, Plot-No,26&57,Sec-2,IIE,Sidcul, Haridwar(U.K.)
8.	Manufacturer / Supplier Inspection Call Letter No. & Date	:	VECTUS/QA/I.C01/2019-20 dated 25/11/2019
9.	PDI Cell Assignment No. & Date	:	CIPET/HO/PDI/2019202685 dated 26/11/2019
10.	Date of inspection	:	Initiated on: 05/12/2019
11.	Any other information	-	Manufacturer License No. CM/L: 8300133310 *Inspection of 7920 mtr. Pipe of SN-8 200 mm & 3450 mtr. SN-8 250 mm has been conducted.
12.	Name of Work	:	Providing and Laying for UPVC & RPVC pipes sever and Construction of MH chamber, Making Sever House connection and construction of roads and all other works contingent there to at Sangrur.

## DETAILS OF THE STORES AS PER IS: 15328-2003 latest amendments

SI. No.	Description of the items	Quantity as per order (mtr)	Quantity inspected earlier (Cumulative) (mtr)	Quantity offered for Inspection* (mtr)	Quantity Accepted (mtr)	Quantity Rejected (mtr)	Quantity Balance (mtr)
1.	UPVC SN-8 SDR:34 DN 200 mm	7920	0	7920	7920	NIL	0
2.	UPVC SN-8 SDR:34 DN 250 mm	3450	0	3450	3450	NIL	0

Remarks: All accepted items are stamped thus -



Certified that the items as detailed above have been inspected and accepted. The accepted items may be dispatched to the consignee. The Inspection Document Nos. 10 A (1911017) & 10 B (1911017) dated 06/12/2019 is enclosed here with.

This inspection report is valid for 30 days and any Dispute/discrepancies/claims may be brought to the notice of the undersigned within 30 days from the date of issue of this report.

**Authorised Signatory** 

Abhishek Rajvansh (Code No. 906)

Copy to: 1. Indenter

2. Consignee

3. M/s Vectus Industries Limited

4.CIPET

प्रधान कार्यालय, पी.डी.आई सेल (रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

टी.वी.के. औद्योगिक इस्टेट, गिण्डी, चैन्नई 600-032

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## CENTRAL INSTITUTE OF PLASTICS **ENGINEERING & TECHNOLOGY** Head Office, PDI Cell

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) TVK Industrial Estate, Guindy, Chennai-600 032 Phone: +91-44-22254781/22254779/64629018 E-mail: pdicipet@gmail.com

Web: www.cipet.gov.in

INSPECTION DOCUMENT

CIPET / QF / 7742

Ref: CIPET:CSTS/DDN/19-20/10/ASR /11/017

Issued to: M/s Vectus Industries Limited, Plot-No,26 & 57, Sec-2, IIE, Sidcul, Haridwar (U.K.)

Manufacturer / Supplier Inspection Call Letter No. & Date: VECTUS/QA/I.C.-01/2019-20 dated 25/11/2019

INSPECTION DOCUMENT AS PER IS NO.: AS PER IS- 15328:2003

DOC. NO.: 10 A (1911017)

Page No.: 1 of 2 DATE: 06/12/2019

## PART - A: PARTICULRS OF STORES

a) Description of the items

b) Grade/Variety/Type/Size/Class etc.

c) Declared Value, if any d) Quantity

e) Any Other Information

UPVC Pipe SN-8, SDR 34 Ring socket PVC UGD Pipe SN-8 SDR -34 200mm

NIL

7920 Mtr.

Batch No. 19111962,19111963,20111961.20111962,20111963, 21111961,21111962,21111963,22111961,22111962,22111963. 23111961,23111962,23111963,24111961,24111962,24111963, 25111961

### PART - B: SUPPLIMENTARY INFORMATIONS

a) Reference to sampling procedure: IS: 15328:2013

#### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

Resul	ts of Witness	sed Tests			
SI. No.	Clause No. / QAP SI. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
1.	6.1.1 Table-1	DIMENSIONS OF PIPE Mean outside diameter a) Minimum b) Maximum	mm mm	200.0 200.6	200.28 200.55
2.	6.1.1 Table-1	Outside diameter at any point  a) Minimum  b) Maximum	mm mm	197.6 202.4	199.36 201.35
3.	6.1.2 Table-2	Wall thickness i) Minimum ii) Maximum	mm mm	5.9	6.00 6.42
4.	6.1.3	Effective Length of Pipe	. 01	actice 6,000 astics	6.002
5.	6.1.4 Table3	Dimension of socket  a) Mean Inside diameter (min) b)Minimum Depth of Engagement c) Depth of Sealing Zone(Max) d) Length of Spigot(min) e) Chamfer length	mm mm mm mm	200.6 50 40 99 9	200.88 57.00 39.00 115.18 10.00
6.	6.1.4.1	Wall Thickness of socket (min) Wall Thickness of groove (min)	mm mm	5.31 4.43	5.88 5.62

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रसायन एवं उर्वरक मंत्रालय, भारत सरकार) टी.वी.के. औद्योगिक इस्टेट, गिण्डी, चैन्नई 600-032

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ईमेल : pdicipet@gmail.com : www.cipet.gov.in

DOC. NO.: 10 A(1911017)





Type 'A' Inspection Body ISO / IEC - 17020-2012

## CENTRAL INSTITUTE OF PLASTICS **ENGINEERING & TECHNOLOGY**

Head Office, PDI Cell

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) TVK Industrial Estate, Guindy, Chennai-600 032 Phone: +91-44-22254781/22254779/64629018

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Page No.: 2 of 2

DATE: 06/12/2019

SI. No.	Clause No. / QAP SI. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
7.	7.1	Appearance		Pipe should be smooth, Clean and free from grooving's, blistering and any other surface irregularity.	Confirms
8.	7.2	Colour		The Colour of pipe Should be dark( any shade of brown)	Dark Shade of Brown
9.	7.3	Vicat Softening Temperature	°C	Should not be less than 79	81.9
10.	7.4	Reversion Test	%	±5	2.63
11	8.1	Resistance to External Blow		TIR Should not more than 10	0%

#### Review of Documents (if any):

8.1

at 0°C

SI. No.	Clause No. / QAP SI. No.	Test Parameters / Documents	Certificate / Report No. & Date	Certificate / Report Issued by	Review / Remarks
1.	8.2	IS: 15328 - 2003	1263 dated 8/03/2019	CIPET Lucknow	NIL
2.	8.3	IS: 15328 - 2003	1263 dated 28/03/2019	CIPET Lucknow	NIL
3.	10.1	IS: 15328 - 2003	1263 dated 28/03/2019	CIPET Lucknow	NIL

#### PART - D: REMARKS

#### NOTE:

11.

- 1. This Inspection document shall not be reproduced except in full without the written approval of the PDI Cell at CIPET Head Office, Chennai.
- These witness results relate exclusively to the work ordered or the object (s) or the lot inspected. Lab. Environmental Condition during the witness of tests: Temperature 25 ± 1° C & RH - 62 ± 2 %

**Authorised Signatory** 

CIPET Abhishek Rajvansh (Code No. 906)

Camp at: M/s Vectus Industries Limited, Plot-No,26&57, Sec-2, HE, Sidcul, Haridwar (U.K.)

प्रचान कार्यालय, पी.डी.आई सेल (रसायन एवं पेट्रोरसायन विभाग, रसायन एवं उर्वरक मंत्रालय, भारत सरकार) टी.वी.के. औद्योगिक इस्टेट, गिण्डी, चैन्नई 600–032

फोन : +91-44-22254781/22254779/64629018 ईमेल : pdicipet@gmail.com

ईमेल : pdicipet@gmail.cor वेब : www.cipet.gov.in





Type 'A' Inspection Body ISO / IEC - 17020-2012

## CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY Head Office, PDI Cell

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) TVK Industrial Estate, Guindy, Chennai-600 032 Phone: +91-44-22254781/22254779/64629018

E-mail: pdicipet@gmail.com Web: www.cipet.gov.in



CIPET / QF / 7742

#### INSPECTION DOCUMENT

Ref: CIPET: CSTS/DDN/19-20/10/ASR/11/017

Issued to: M/s Vectus Industries Limited, Plot-No,26 & 57,Sec-2,IIE,Sidcul, Haridwar (U.K.)

Manufacturer / Supplier Inspection Call Letter No. & Date: VECTUS/QA/I.C.-01/2019-20 dated 25/11/2019

INSPECTION DOCUMENT AS PER IS NO.: AS PER IS- 15328:2003

DOC. NO.: 10 B (1911017)

Page No.: 1 of 2 DATE: 06/12/2019

### PART - A: PARTICULRS OF STORES

a) Description of the items : UPVC Pipe SN-8, SDR 34 Ring socket b) Grade/Variety/Type/Size/Class etc. : PVC UGD Pipe SN-8 SDR -34 250mm

c) Declared Value, if any : NIL

d) Quantity

e) Any Other Information

3450 Mtr. Batch No. 15111961,15111962,15111963,16111961,16111962,

16111963,17111961,17111962,17111963,18111961,18111962,

18111963

### PART - B: SUPPLIMENTARY INFORMATIONS

b) Reference to sampling procedure: IS: 15328:2013

#### PART - C: RESULTS OF WITNESSED TESTS & REVIEW OF DOCUMENTS

SI. No.	Clause No. / QAP SI. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
12.	6.1.1 Table-1	DIMENSIONS OF PIPE Mean outside diameter a) Minimum b) Maximum	mm mm	250.0 250.8	250.18 250.68
13.	6.1.1 Table-1	Outside diameter at any point  a) Minimum  b) Maximum	mm =mm	247.0 253.0	249.32 252.04
14.	6.1.2 Table-2	Wall thickness	mm	7.3+1	7.80
15.	6.1.3	Effective Length of Pipe	· Dr	actice 6.000 astics	6.005
16.	6.1.4 Table3	Dimension of socket  a) Mean Inside diameter (min) b) Minimum Depth of Engagement c) Depth of Sealing Zone(Max) d) Length of Spigot(min) e) Chamfer length	mm mm mm mm mm	250.8 55 70 125 9	250.99 58.00 69.00 138.00
17.	6.1.4.1	Wall Thickness of socket (min) Wall Thickness of groove (min)	mm mm	6.57 5.48	7.41 6.69

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प्रधान कार्यालय, पी.डी.आई सेल (रसायन एवं पेट्रोरसायन विमाग, रसायन एवं उर्वरक मंत्रालय, मारत सरकार) टी.वी.के. औद्योगिक इस्टेट, गिण्डी, चैन्नई 600-032 फोन : +91-44-22254781/22254779/64629018

ईमेल : pdicipet@gmail.com वेब : www.cipet.gov.in





CENTRAL INSTITUTE OF PLASTICS **ENGINEERING & TECHNOLOGY** 

Head Office, PDI Cell

(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India) TVK Industrial Estate, Guindy, Chennai-600 032 Phone: +91-44-22254781/22254779/64629018 E-mail: pdicipet@gmail.com

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DOC. NO.: 10 B(1911017)

Page No.: 2 of 2 DATE: 06/12/2019

SI. No.	Clause No. / QAP SI. No.	Tests Witnessed	Unit	Specified requirements	Observed Results
18.	7.1	Appearance		Pipe should be smooth, Clean and free from grooving's, blistering and any other surface irregularity.	Confirms
19.	7.2	Colour		The colour of pipe Should be dark( any shade of brown)	Dark shade of Brown
20.	7.3	Vicat Softening Temperature	°C	Should not be less than 79	82.4
21.	7.4	Reversion Test	%	±5	2.72
22.	8.1	Resistance to External Blow at 0°C	-	TIR Should not more than 10	0%

### Review of Documents (if any):

SI. No.	Clause No. / QAP Sl. No.	Test Parameters / Documents	Certificate / Report No. & Date	Certificate / Report Issued by	Review / Remarks
1.	8.2	IS: 15328 - 2003	1263 dated/28/03/2019	CIPET Lucknow	NIL
2.	8.3	IS: 15328 - 2003	1263 dated 28/03/2019	CIPET Lucknow	NIL
3.	10.1	IS: 15328 - 2003	1263 dated 28/03/2019	CIPET Lucknow	NIL

#### PART - D: REMARKS

#### NOTE:

- 3. This Inspection document shall not be reproduced except in full without the written approval of the PDI Cell at CIPET Head Office, Chennai.
- 4. These witness results relate exclusively to the work ordered or the object (s) or the lot inspected. Lab. Environmental Condition during the witness of tests: Temperature 25 ± 1° C & RH - 62 ± 2 %

Authorised Signatory

Abhishek Rajvansh (Code No. 906)

Camp at: M/s Vectus Industries Limited, Plot-No,26&57,Sec-2,IIE,Sidcul, Haridwar (U.K.)



	MANUFACTURER:		QUALIT	JALITY ASSURANCE PLAN	PROJECT:N SCHEME D	WADI- I	PROJECTNIWADI- PRATHIPUR-II MUL SCHEME DISTRICT TIKAMGARH (M.P)	JLTI VILL P)	PROJECTNIWADI- PRATHIPUR-II MULTI VILLAGES RURAL WATER SUPPLY SCHEME DISTRICT TIKAMGARH (M.P.)
(4)	VECTUS INDUSTRIES	ITEM DESCRIPTION: HDPE PIPES PE100 PN6 SDR 21	N: HDPE PIPES	QAP No.VILB/HDPE/18-19/MARCH/01 Dated 26/03/2019	CLIENT:- M	anaging	director, of Madhy	'a Prades	CLIENT:- Managing director, of Madhya Pradesh Jal Nigam, Bhopal
v.	LIMITED	SPECIFICATION DETAILS:	TAILS:	P.O No. : 20032 Dated 20.03.2019	CONTRACT	OR TP	CONTRACTOR - TPPL-JEW (JV)		
		IS: 4984 - 2016 With amen May 2018 (Fifth Revision)	IS: 4984 - 2016 With amendment No. 01 May 2018 (Fifth Revision)		Consultant	lame:- T	HTUOS GUS-VU	ASIA PV	Consultant Name: - TUV-SUD SOUTH ASIA PVT.LTD. TIKAMGARH
Component /	Method of Check	Extent of Check	Ref.		Format of	-	Agency		
IATE	Operation TEST ON RAW MATERIAL:		Standard	Acceptance Norms	Record		Contractor C. Agency	C/TPI or both	Remarks
Base Density	Review of TC	1 sample per lot	IS: 4984 - 2016	As per Cl. No. 5.2, Table 2 & test according to IS 7328 shall be within 930 to 960 kc/m3 @ 27° C.	RMTC	œ	α	æ	Resin used to manufacture the HDPE
Melt Flow Rate	Review of TC	1 sample per lot	IS: 4984 - 2016	As per Cl. No. 5.2, Table 2 & test according to IS 2530 shall be within 0.2 to 1.1 o /10 Min @ 190° C & 5 kg Load	RMTC	~	æ	æ	pipes shall be 100% virgin PE Black Precompound Material confirming to IS:
Thermal Stability (OIT)	Review of TC	1 sample per lot	IS: 4984 - 2016	As per Cl. No. 5.2. Table 2 & test according to Annex B, shall be 2 20 Minutes (200° C, Isothermal)	RMTC	œ	æ	a	4984, IS: 7328 and ISO: 4427-2007 (latest version).
Volatile Matter	Review of TC	1 sample per lot	IS: 4984 - 2016	As per Cl. No. 5.2, Table 2 & test according to Annex C, shall be s 350 mg/Kg. (No. of test pieces 01)	RMTC	~	α	œ	
Water Content	Review of TC	1 sample per lot	IS: 4984 - 2016	As per Cl. No. 5.2, Table 2 & test according to Annex D, shall be s 300 mg/Kg. (No. of test pieces 01) If water content is more than 300 mg/Kg, drying to be done prior use.	RMTC	α	α	œ	Only applicable if the measured Volatile Content is not in conformity with its specified requirement.
Test on Carbon Black Master Batch	Review of TC	1 sample per lot	As per Cl. No. 5.3 IS: 4984 - 2016	1. Density: (1.5 to 2.g/ml) 2. Toluene extract not more than 0.1 percent (m/m). 3. Maximum Volatile matter 0.9 percent (m/m) 4. Carbon black particle size should be less than 0.025 µ	MBTC	α	α	œ	MANAGER
Resin for carbon black content	Review of TC	1 sample per lot	IS: 2530 / ASTM D1603	The resin shall be compounded with carbon black. The carbon black content in the material shall be within 2.5 $\pm$ 0.5% and the dispersion of carbon black shall be satisfactory	RMTC	~	α	α	PIU-Tikamgarh (M.P.)
Anti Oxidant	Review of TC	1 sample per lot	IS: 4984 - 2016	IS: 4984 - 2016 Cl. No.5.4	RMTC	~	œ	~	
(10000 Hrs.)	Review of TC	Each Grade of Raw Material	ISO: 9080	ISO: 9080 / Client Tech. Spec.	ILTR	2	œ	~	
Rapid Crack Propogation Test	Review of TC	Each Grade of Raw Material	ISO: 13478	ISO: 13478 / Client Tech. Spec.	ILTR	œ	œ	œ	ADDOOVED
ES : GEC	TEST ON PIPES: GEOMETRIC CHARACTERISTICS OF PIPE:	TCS OF PIPE:				1			
Colour & Identification stripes	Visual	Table 9 of IS: 4984 -	IS: 4984 - 2016	As per CI. No. 6.2 & 6.2.1, Colour of pipe shall be Black with minimum 3 Nos. of longitudinal Stripes of minimum Width of 3 mm in Blue colour, Gircumferentially distributed. These stripes shall be co-extruded during pipe manufacturing and shall not preferably be more 0.2 mm in depth for wall thickness up to 10 mm and 0.5 mm beyond 10 mm. The material of the stripes shall be of same type as used in the base compound of the pipe.	Inspection	۵.	3	3	GENERAL MANAGER
Visual Appearance	Visual	Table 9 of IS: 4984	IS: 4984 - 2016	As per CI. No. 7.1, The Internal and External surface of the Pipe shall be smooth, clean and free from grooving and other defects. Slight shallow horightdring groves or irregularities in the wall thickness shall be permissible, provided that the wall thickness remains within the permissible limits.	Inspection	•	3	3	PIU-Tikamgarh (M.P.)

Checked &

Team Leader
V-SUD South Asia Pvt. Ltd.
Tikamgarh S BANMORE DELL

	,	,	-	5		_			0	5			
	No Negative tolerance is acceptable in length.		NANAGER	MNCdM	plu-Tikamgam (m.	APPROVE				OENERALWANACO			
>	>	>	3	>		*	>	*	*	3	3	*	
×	*	*	3	×		*	8	*	*	>	*	W	
۵.	0	0	۵.	a	1	۵	۵	۵	۵.	0.	۵	۵	
Inspection	Inspection	Inspection	Inspection	Inspection		Inspection	Inspection	Inspection	Inspection	Inspection	Inspection	Inspection	
Ct. No. 7.1.8. The ends of the Pipes shall be cleanly cut square with the axis of pipe to within the tolerance specified and free from deformity.	As Per IS: 4984 - 2016 Clause No. 7.2,7.3 & customer requirement	As per Cl. No. 7.4 & Table 3	As per CI. No. 7.4.1.2 & Table 3, Ovality shall be measured at 300 mm away from cut end. For coiled pipes & Pipes having SDR ≥ 21, rerounding shall be permissible before the measurement of Ovality. The Ovality shall be measured during Extrusion and prior to Coiling & as per client technical specification	As per Cl. No. 7.4 & Table 4		As per Cl. No. 8.1.1 & Test According to Annex E. The Pipe under test shall not show no signs of localized swelling, leakage or weeping and shall not burst when tested at Test Temperature of 80° C for 48 Hours @ Induced Stress as per Table 5	As per Cl. No 8.2 & Test according to Annex F, the Longitudinal reversion shall not be greater than 3%	As per Cl. No. 8.3, when tested from a composite sample of Min. three pipes in accordance with IS 2530, the Carbon Black content shall be within 2.5 ± 0.5 % & the dispersion of Carbon black shall be Satisfactory	As per Cl. No. 8.4, when tested from a composite sample of Min. three pipes as per IS 2530 at 190° C with nominal Load of 5 Kgt, MFR shall not deviate from the MFR of the resin by more than 30 %.	As per CI. No. 8.5. The minimum Oxidation Induction Time of the pipe when tested in accordance with the method given Annex B shall be not less than 20 Minutes.	As per CI. No. 8.7, when tested from a composite sample of Minthree pipes as per IS 7328 the Base Density of pipe shall be between 930 to 960 Kg/m³.	As per Cl. No. 8.9 & Test according to Annex H, the test specimens Punch / Machined from pipe samples, the Elongation at Break shall be ≥ 350%.	
IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016		IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	
Table 9 of IS: 4984 . 2016	Table 9 of IS: 4984 .	Table 9 of IS; 4984 . 2016	Table 9 of IS: 4984 -	Table 9 of IS: 4984 - 2016	E TESTS)	Table 10 of IS: 4984 - 2016 & one sample per Lot	Table 10 of IS: 4984 - 2016	Table 10 of IS: 4984 - 2016	Table 10 of IS: 4984 - 2016	Table 10 of IS: 4984 - 2016 & one sample per Lot	Table 10 of IS: 4984 - 2016	Table 10 of IS: 4984 - 2016	
Visual	Measurement by Measuring Tape	Measurement by Pie Tape Table 9 of IS: 4984 & Vernier Calliper 2016	Measurement by Vernier Calliper	Measurement by Ball Ended Micrometer	TEST ON PIPES: PERFORMANCE (ACCEPTANCE TESTS)	Visual	Measurement by Hot Air Oven	Measurement by CBC Tester, Microscope & Hot Plate	Measurement by MFI Tester	Measurement by d OIT Tester	Measurement by Density Tester	Measurement by UTM Tester	
Maximum out of Squareness at pipe ends	Length	Mean Outside Diameter	Ovality	Wall Thickness	TEST ON PIPES : PER	Internal Pressure Creep Rupture Test of Pipe (Acceptance test)	Reversion	Carbon Black Content & Dispersion	Melt Flow Rate	Oxidation Induction Time	Density	Elongation at Break	(
m	4	5	9	7	o	-	2	ю	4	2	9	7	

CLIENT / TPI

MANUFACTURER

Recommended For Approval

S BANMORE

Team Leader
TUV-SUD South Asia Pvt. Ltd.
Tikamgarh

Authorised Signatory

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			MANAGER	PIU-Tikamgarh (M.P.)	APPROVE		CENERAL MANAGER	PIU-Tikamgarh (M.P.)
>		α	α	α	α	α	α	α
3		α	α	α	œ	α	α	α
0		0.	•	<b>a</b>	۵.	Q.	۵.	۵
Inspection		Type Test Report	Type Test Report	Type Test Report	Type Test Report	Type Test Report	Type Test Report	Type Test Report
As per C. No. 10. Each stageth Lenguh. Con sand or breaty a findelible marked in Whitel Yellow Colour using ink/paint or inkjet printing or hot embossing at every One Meter throughout the Length as below.  1. Mauriacturer Name / Trade Mark  2. Material Designation  3. Pressure Rating  4. Standard Dimension Ratio (SDR)  5. Outside Diameter  6. Lot Number / Batch Number  7. ISI Logo / BIS Standard No.  8) Year, Month, Day, Machine Number & Shift  9) TPI Marking on all pipes  10) TPI Special marking on witnessed pipe  11) Marked MPJNM ON THE PIPE		As per Cl. No. 8.1.1 & Test According to Annex E. The Pipe under test shall not show no signs of localized swelling, leakage or weeping and shall not burst when tested at Test Temperature of 27° C for 100 Hours @ Induced Stress as per Table 5	As per Cl. No. 8.1.1 & Test According to Annex E. The Pipe under test shall not show no signs of localized swelling, leakage or weeping and shall not burst when tested at Test Temperature of 80° C for 165 Hours @ Induced Stress as per Table 5	As per Cl. No. 8.1.1 & Test According to Annex E. The Pipe under test shall not show no signs of localized swelling, leakage or weeping and shall not burst when tested at Test Temperature of 80° C for 1000 Hours @ Induced Stress as per Table 5	As per Cl. No. 8.1.1 & Test According to Annex E. The Pipe under test shall not show no signs of localized swelling, leakage or weeping and shall not burst when tested at Test Temperature of 8th C for 48 Hours @ Induced Stress as per Table 5	As per Cl. No. 8.6, when tested from a composite sample of Min. three pipes as per IS 9845 the Overall Migration of Constituents shall be not more than 10 mg/dm2.	As per Cl. No. 88 & Test according to Annex G, the test specimens Punch / Machined from Butt Fusion Sample (Preferably 110 mm SDR 11) shall show ductile failure.	As per CI. 8.10 & Test According to Annex E. The notched test specimens prepared from pipe size of preferably 110 mm SDR 11 in accordance with Annex J shall not show no signs of localized swelling, leakage or weeping and shall not burst when tested at Test Temperature of 80° C for 500 Hrs @ Internal Pressure as per clause 8.10
IS. 4984 - 2016		IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016	IS: 4984 - 2016
Table 9 of IS: 4964	(8)	CI. No.: 9.1 & Table 7 of IS: 4984 - 2016	CI. No.: 9.1 & Table 7 of IS: 4984 - 2016	CI. No.: 9.1 & Table 7 of IS: 4984 - 2016	CI. No.: 9.1 & Table 7 of IS: 4984 - 2016	Cl. No.: 9.1 & Table 7 of IS: 4984 - 2016	CI. No.: 9.1 & Table 7 of IS: 4984 - 2016	Cl. No.: 9.1 & Table 7 of IS: 4984 - 2016
Visual	JRMANCE (TYPE TEST	Visual	Visual	Visual	Visual	Measurement	Measurement	Measurement
Marking	TEST ON PIPES : PERFORMANCE (TYPE TESTS)	Internal Pressure Creep Rupture Test of Pipe	Internal Pressure Creep Rupture Test of Pipe	Internal Pressure Creep Rupture Test of Pipe	Internal Pressure Creep Rupture Test of Pipe Joint	Overall Migration	Tensile Strength for Butt-Fusion	Slow Crack Growth rate
ω	0		8	е п	4	8	9	-

1. Calibration certificate of all measuring equipment shall be provided for review.

2. No addition of Reworked/ Recycled Material from the manufacturer's own rework material resulting from the manufacture of pipes is permissible and the vendor is required to use only 100% virgin resin compound.

8. Note- Random sample of pipe may also be sent for TPI from work site.

M - MANUFACTURER Contractor: IHP C - CLIENT / TPI

Note-Random sample of pipe may also be sent for TPI from work site.

LEGENDS:
RMTC - RAW MATERIAL TEST CERTIFICATE

S BANMORE DAY TPI- SGS / RITES / CIPET ym Leder SQC

TUV-SUD South Asia Pvt. Ltd. TUV-SUD Son P - PERFORM R - REVIEW W - WITNE

Recommended For Approval

Tikamgarh

CLIENT / TPI

Authorised Signatory

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N N	PIPES AND TANKS		QUALITY	QUALITY ASSURANCE PLAN (QAP)					Rev Date:-00 Eff. Date:
nufaci	ture :- Vectus	Industries Limited, Plot-No. 26 &	Manufacture :- Vectus Industries Limited, Plot-No. 26 & 57, Sector-2, IIE SIDCUL, HARIDWAR (UK)	(nk)	PROJECT NAME: Augmentatic Amrut Mission on Turnkey Basis	mentation by Basis	of Wate	r Supply	: Augmentation of Water Supply Scheme of Durg under urnkey Basis
IENT	: Laxmi Civil	CLIENT: Laxmi Civil engineering Services Pvt. Ltd., Nagpur-440010	lagpur-440010		OAP	QAPNo. VEC/HRD/COM/QA-QAP/A-10	RD/COM	AA-GAF	0/A-10
me of	Contractor	Name of Contractor: Laxmi Civil engineering Services Pvt. Ltd., Nagpur-440010	ss Pvt. Ltd., Nagpur-440010						
Istom	er PO numbe	Customer PO number : LCES/NGP/PO/0116/2019-20 dtd. 14.06.2019	0 dtd: 14,06.2019	Oty -60000 Mirs.(1620mm)					
No.	Clause no.	Test parameter	Requirements	Reference Standard	Sampling mode for manufacturer	Insp. by Manf.	產	o	Name of calibration unit
	4.1,4.2,4.3 &	Material designation				۵		ž	8
c/i	7	Colour			one, each consignment	В	3	×	Manf. T/C Review
		DIMENSION							
		Outer diameter	Table-2 of IS 15450	IS 15450:2004	01 sample/4 hrs.	a. c	3	<b>X</b>	
(1)	8,8.1,8.2,8.3	Wall thickness	Table-2 of 1S 15450	IS 15450:2004	01 sample/4 firs.		**	3	
	80 4.	coiling	While coiling, the inside diameter of coils in mm shall be not less than 20 times the outside diameter of pipes.	IS 15450:2004		. d	* *	*	
4		Pipe end	shall be cleaned & square to the axis of	IS 15450:2004		а.	3	3	
0	ō	Visual appearance The Internal & external surface Smooth	The internal & external surface shall be smooth	IS 15450:2004	each coil	۵	3	*	
		PHYSICAL, CHEMICAL & MECHAN	ICAL TEST REQUIREMENTS						
9	10.1	Density	942 to 948 gm/cm <sup>3</sup>	IS 7328 & IS 15450:2004 cl.10.1 Table-3	Minimum three pipes, each control unit	Ь	3	8	Manf. T/C Review
7	10.2	Melt flow rate	0.4 to 0.8 - 190°/5 kg	IS 2530 & IS 15450:2004 cl.10.2 Table-3	Minimum three pipes, each control unit	۵	3	8	Manf. T/C Review
œ	10.3	Carbon black content & dispersion	2.5 ± 0.5 persent	IS 2530 & IS 15450:2004 cl.10.3 Table-3	Minimum three pipes, each control unit	а	^	W	
o	10.4	Pigment dispersion	ç.	IS 15450:2004 cl.10.4 Table-3 Annex - C	One, each control unit	а	3	8	
10	10.5	Adhesion test		IS 15450:2004 cl.10.5 Annex - D	One, each control unit	Ь	×	8	
11	10.6	Tensile strength	Min Ring strenght (N)	IS 15450:2004 cl.10.6 Table-4 Annex - E	One, each control unit	а	3	*	
12	10,7	Minimun Burst pressur	shall not burst or leakage during prescribed lest period.	IS 15450:2004 cl.10.7 Table-4 Annex - F	One, each control unit	а	*	×	
13	10.8	Hydraulic Characterstic Acceptance test	shall not burst or leakage during prescribed test period.	IS 15450:2004 cl.10.7 Table-5 Annex - G	One, each control unit	Ь	3	*	
14	11.1	Hydraulic Characterstic Type test	shall not burst or leakage during prescribed test period.	IS 15450:2004 cl.11.1.1 Table-6	1, Once in three year	ж	œ	ш	Out side perform
15	11.1.2	Overall Migration test	Mg/lit - 60	IS 15450:2004 cl.11.1.2 & IS 9845-1998	1, Once in three year	æ	α	œ	Out side perform
		TiO / activities of the state of the	OC /	IS 15450:2004 cl.11.13 Table-3 Annex -	1 Once in three year	a	a	a	Sut signoedorm

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Note:- Legends:- Perform;R= Review, W= Witness, Amend = Amendment

Prépated-BY

Quality Dept.

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Aanuf	Manufacturer	VECTUS INDUSTRIES LTD. HARIDWAR	WAR	NA IO LOGENOS	Product Name	PPR Pi	pes for Hot and Co	PPR Pipes for Hot and Cold water distribution
ontro	Control plan no.	05 Rev. D dtd. 14.09.14		CONTROL PLAN	Specification Refer	IS 158	IS 15801:2008	
Sr. No.	Clause No.	Description	Requirements	Reference Standard	Sampling model for manufacturer	Insp. by Manf.	Record	REMARK
н	2	8	4	5	9	7	80	10
1		Batch preparation	As per Table No. 4 (B)	As per Table No. 4 (B)	Each and every batch	۵		
N		COLOOUR OF Pipes	White in colour	Own	Each and every batch	۵		
m		Identification Strip	As per WI 11(B)	As per WI 11(B)	Each and every batch	٩		
3		Surface finish	No visual defects in Pipes		10 samples / day	٩	Form no. 77(A)	
4	7.1	Outside diameter	As per Table No. 18 (B)	IS 15801-2008	10 samples / day	ط	Form no. 77(A)	
5	7.2	Wall Thickness	As per Table No. 18 ( B)	IS 15801-2008	10 samples / day	۵	Form no. 77(A)	
9	7,4	Length of pipe	3,4 & 6 mtr.	IS 15801-2008	10 samples / day	۵	Form no. 77(A)	
7	9.1	Creep Strength						
		I) Acceptance test, Duration 1 hr.	IS 15801-2008	IS 15801-2008	1 sample / day	Δ.	Form no. 78(A)	
		II) Acceptance test, Duration 22 hrs.	IS 15801-2008	IS 15801-2008	Once / week	۵	Form no. 78(A)	
		III) Type Test , Duration 165 Hrs.	IS 15801-2008	IS 15801-2008	Type Test as per STI	۵	Form no. 49(A)	
		IV) Type Test , Duration 1000 Hrs.	IS 15801-2008	IS 15801-2008	Type Test as per STI	۵	Form no. 49(A)	
00	9.2	Fusion Compatiblity Test	IS 15801-2008	IS 15801-2008	Type Test as per STI	۵	Form no. 49(A)	
						-	1	



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Manufacturer	cturer	VECTUS INDUSTRIES LTD. HARIDWAR	)WAR		Product Name	PPR Pi	PPR Pipes for Hot and Cold water distribution
Control	Control plan no.	05 Rev. D dtd. 14.09.14		CONTROL PLAN	Specification Refer	IS 158	IS 15801:2008
6	9.3	Heat Reversion	IS 15801-2008	IS 15801-2008	Once / day	۵	P Form no. 78(A)
10	9.4	Impact Strength	IS 15801-2008	IS 15801-2008	Once / day	۵	Form no. 78(A)
11	5.6	Density Test	IS 15801-2008	IS 15801-2008	Once / day	۵	Form no. 78(A)
12	9.6	M.F.l. Test	IS 15801-2008	IS 15801-2008	Once / day	۵	Form no. 78(A)
13	6.6	Opacity Test	IS 15801-2008	IS 15801-2008	Type Test as per STI	۵	P Form no. 84(A)
14	9.9	Over all Migration Test	IS 15801-2008	IS 15801-2008	Type Test as per STI	۵	Form no. 88(A)



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PRODUCT NAME	CLIENT PRODUCT NAME
ASSURANCE PLAN	ASSURANCE
	PRODUCT NAME

REMARK		If Manufacturer Test Certificate	received for each	material further	testing would not be necessary.		In process 100 % check will be done by TPI.				Marking shall be (e.g.) MTRS. VECTUS B.NO. M/c DDMMYY XXXXDate Of Mfg. DDMMYY "
IFI		œ	œ	œ	œ		×	>	M	*	×
Manufacture		a.	۵	d.	۵		Q.	۵	<b>a</b>	a.	۵
Requirement							When viewed without magnification, the internal and external surfaces shall be smooth, clean and free from scoring, cavities and other surface defects which may affect pipe performance. The pipe ends shall be cut cleanly and square to the axis of the pipe.				Printing done by Inkjet printers in black colour and Minimum data for marking shall be taken from CL 13 of IS 4985:2000
Ref. Standards	NYL CHLORIDE	IS 4985:2000 IS 10148	1S10148	IS 4985:2000	IS 4669:1968			Cl. 7.1.3 of IS IS 4985.2000	Cl. 7.1.2 of IS 4985:2000	Cl. 7.1.4 of IS 4985:2000	IS 4985:2000
Extent of Check	ID POLUVI	One per lot				den a	100.00%	10 sample C per m/c per shift	-op-	-op-	100.00%
Unit Of Measureme nt	LASTICIZE							mm	mm	Mtr.	
Measurement Technique/ Type of Instrument used	AND GRADE:- UNP					NO	Visual	Pi tape and Vernier Caliper	Micrometer and Dial thickness gauge	Length Measuring tape	Visual
Name of the test / operation	1. RAW MATERIAL RAME AND GRADE:- UNPLASTICIZED POLUVINYL CHLORIDE	a) Unplasticized polyvinyl chloride	b)ADDITIVES	VCM Content	PVC RESIN (K VALUE)	2. INPROCESS INSPECTION	Appearance	Mean Outside Diameter	Wall Thickness	Length of pipes	Marking
Ciause No.	- 12	9		6.1.1	6.1.2 F		10.1 & 10.1.1	7.1.3	7.1.2	7.1.4	13.1.1
So.		-	2	က	4		ις.	9	7	œ	o

For (T.P.I.) ( Stamp & Signature )

For (Stamp & Signature)

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For VECTUS IND LTD (Manufacturer)
( Stamp & Signature )

QAP No.:VECTUS/ AGRI/QAP/01 Revision No. : Sheet No. : of 2

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No.	Name or the test./ operation	Measurement Technique/ Type of Instrument used	Unit Of Measureme nt	Check	Ref. Standards	Kequirement	Manufacture	<u>-</u>	REMARK
	3. FINAL INSPECTION & TESTING	TESTING							
12	Sampling Procedure				Clause 12 Annex-D of IS 4985:2000	Table 13,14,15,16 & 17 of IS 4984:2000		7	1
10.1.8	Appearance	Visuai			IS 4985:2000	When viewed without magnification, the internal and external surfaces shall be smooth, clean and free from scoring, cavities and other surface defects which may affect pipe performance. The pipe ends shall be cut cleanly and square to the axis of the pipe.	<b>L</b>	*	
7.1.3	Mean Outside Diameter	Pi tape and Vernier Caliper	mm	οβ	CI. 6.1 of IS 14885-2001 Table -3	CI. 6.1 of IS 14885-2001 According to nominal size of products given by Table -3	А	W	
7.1.2	×	Micrometer and Dial thickness gauge	mm .	ģ	Ci. 6.1 of IS 14885-2001 Table -4 & 5	Cl. 6.1 of IS 14885-2001 According to nominal size of products given by Table -4 & 5	ď	<b>%</b>	
7.1.4	Length of pipes	Length Measuring tape	Mtr.	-op-	Cl6.4	According to nominal size of products given by customer	n.	*	
90 CO	Tab 6 & 27°C for 1 hour Hydrostatic pressure test M/C, 27°C water bath, 7 Hydrostatic fittings	Hydrostatic pressure test M/c, 27°C water bath, Hydrostatic fittings		-op	IS 4985:2000	No sign of localized swelling, No leakage or bursting	۵	8	
10.4	Heat Reversion	Hot air oven , Vemier caliper	%	As per clause 10.4,	IS 4985:2000	≤ 5 %, no effect on surface.	Q.	×	
(0)	10.63 density	Weight balance, Thermometer conditioned room	kg/m³	-op-	IS 13360	1.40 –1.46 Gm/cc	D.	W	
-4	11.2 Resistance to external blow 0°	As per IS	1		ls 4985:2000		a.	M	
10.5		VSP TESTER		-op-	154985	2°08<	۵	×	
10.7	Sulphated Ash Content	Muffle fumace, Weight balance,		ф	Is 4985 Tab-15	Not exceed 11 percent	Д	×	
10.2	Opacity	Opacity tester		-op	IS 12235 PT-3	Not transmit More than 0.2 percent	а	8	

For (T.P.I.) ( Stamp & Signature )

For VECTUS INDLTD (Mandracturer) ( Stamp & Signature )

QAP No.:VECTUS/ AGRI/QAP/01 Revision No.: Sheet No.: of 2

For (Stamp & Signature)

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LUB ANDLE	Vect	us Industries Lim	ited		Ref No. :- VIL B-II/B	IS /F-01
VECTUS	22,26,27 Industria	l Area Banmore D	ist.Morena(M.P.)		REV. :01	
PIPES AND TANKS		QAP			Effective date : 01.0	1.2017
FIFTER HID INDING	Rotational Moulde		ter Storage Tanks		DOC: STI / 12701 /	
		S 12701:1996 Rea			Page:- 01 of 02	
	TEST DETAILS				LEVELS OF CONTRO	OL
Clause		Test	12 + 3 × 1	NO.OF		
(CL.)	Requirement	Method	Test Method	Samples	Frequency	Remarks
	Raw Material	Clause	Reference			
4.1 & 4.2	Polyethylene Material					
4.2.1	Density	5.2.1.1	IS 7328:92 & Annex A	ONE	Each batch of material received	
4.2.2	Melt Flow Index	7.0	IS 2530:63			
4.2.3	Carbon Black Content & Carbon Black Dispersion	10	IS 2530:63	ONE	Each Batch Of Material Or Each Control Unit Of Tanks /Lids As The Case may be	
5	Dimension (Except Thickness ), Net & Gross Capacities & weight	5.1 5.2 5.3 5.5	IS 12701:1996 FIG 1 & 2 Table 1 & 2	ONE	20 Tanks Or Part there Of from Each Control Unit	
5	Thickness & Colour	5.4 IS 12701:1996 & 5.5 & 5.6 Table 1,2	IS 12701:1996 & Table 1,2	ONE	Each control unit	
6	Finish	6.1	IS 12701:1996		Each Storage Tank	
7.1	Resistance to Deformation	Annex B	IS 12701:1996	TWO	Each control unit	
7.2	Resistance to Impact	Annex C	IS 12701:1996	TWO	DO	
7.3	Top Load Resistance (Applicable for tank of Net Capacity 1500 Litres & Above)	7.3.1	IS 12701:1996	TWO	DO	
7.4	Tensile Strength	7.4.1 7.4.2	IS 8543 (PT.IV)/ SEC 1):1984	ONE	Each control unit	
7.5	Flexural Modules	7.5.1	IS 13360 (PT 5)/ SEC 7:1995	ONE	DO	
7.6	Overall Migration (See Note-1)		IS 9845:1986	ONE	Once In Three Months	
9.1	Man Hole /Hand Hole Lids	9.1 9.2 9.3	IS 12701:1996	ONE	20 Lids Or Part There Of from Each Control Unit	
	Prepared By				Approv	ed By
	Navin Paliwal				G.M.( Op	

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Miles	Maliciación	VECTOS INCOSTRIES ETC. RASHIFOR			TI DOUGH HAIRE	CPVC Pipes for not & cold water distribution supply	old water discipled and supply
Cont	Control plan no.			CONTROL PLAN	Specification Refer	IS 15778:2007	
No.	Glause no.	Test parameter	Requirements	Reference Standard	Sampling mode for manufacturer	Insp. by Manf.	Name of calibration unit
	6.3	Material designation		,			
	6.2.1 & Annex B	Chlorine content (resin)	shall not less than 66.5%	Annex-B of IS 15778:2007	one, each consignment	α	Manf. T/C Review
	6.3	Compound properties		CI.4.2.1 of IS 15225	one, each consignment	α	Manf. T/C Review
	6.3.1 & Annex B	Chlorine content (compound)	shall not less than 55%	Annex-B of IS 15778:2007	one, each consignment	œ	Manf. T/C Review
	6.3.2 & Annex C	Verification of the malfunctioning temprature Tmax	shall not leakage during testing	Annex-C of IS 15778:2007	one, each consignment	α	Manf. T/C Review
	6.3.3	Material Density DIMENSION	1.45 to 1.65 gm/cm³	IS 13360 (Part3/Sec1)	each consignment	œ	Manf. T/C Review
		Outer diameter	Table-2 of IS 15778	IS 15778:2007 or IS 12235 (pt1) :2004	10 sample/48 hrs.	۵	
	,	Outer diameter at any point	Table-2 of IS 15778	IS 15778:2007 or	10 sample/48 hrs.	а	
		Out of roundness	Table-2 of IS 15778	IS 15778:2007	10 sample/48 hrs.	d	
		Vvair unckness Length of straight pipe	Figure 2 of 19 1977 Pipes skall be supplied in nominal length of 3,5 or 6 mtr. Tolerance on specified length shall be +20 mm and (-) 0 mm.	IS 15778:2007	10 sample/48 hrs.	a a	
	89	Pipe end	shall be cleaned & square to the axis of pipe IS 15778.2007	IS 15778:2007	10 sample/48 hrs.	a.	
		Colour	shall be off white	IS 15778:2007		Ь	
	9.1	Visual appearance	the internal & external surface shall be smooth	IS 15778:2007	each pipe	۵	
		PHYSICAL, CHEMICAL & MECHANICAL TEST REQUIREMENTS	ICAL TEST REQUIREMENTS				
	9.2	Opacity	Max. 0.20%	IS 12235 :2004 part 3	2, Once in three month	2	
	9.3	Effect on water	shall not have any detrimental effect on the composition	Cl.10.3 of IS 4985	3, Once in six month	œ	Out side perform
	9.4	Reversion test	Max 5%	IS 12235 :2004 part 5	Three, each control unit	4	
	9.4	Reversion test	Max 5%	IS 12235 :2004 part 5	Three, each control unit	۵	
1	9.5	VST	Min 110*c	IS 12235 :2004 part 2	2, Once in three month	æ	
	9.6	Density	1.45 to 1.65 gm/cm³	IS 12235 :2004 part 14	Two, each control unit	۵	
	10.1	Hydraulic Characterstic Acceptance test	shall not burst or leakage during prescribed test period.	IS 15778 & IS 12235 part 8/sec1	One, each control unit	۵	
	10.1	Hydraulic Characterstic Type test	shall not burst or leakage during prescribed test period.	IS 15778 & IS 12235 part 8/sec1	1, Once in three month	А	
	10.2	Hydraulic Characterstic thermal stability by hydrstatic pressure testing		IS 15778 & IS 12235 part 8/sec1	1, Once in three year	۵	
	10.3	Resistant to external blow at 0°c		IS 4985	each control unit	۵	
	10.4	Flattening test	reaking	IS 12235 2004 part 19	one, each control unit	0.0	
70	10.5	l'ensile strength		IS 12235 2004 part 13	one, each control unit	ь	

Approved by Genral Manager (Works) L

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Prepared BY Quality Dept.

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Note :- 2) Legends :- P= Perform, R= Review, W= Witness, Amend = Amendment

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		MANUFACTURER:	QUALITY .	AE-27-24-27	CE PLAN	PROJECT:-			_	
		VECTUS INDUSTRIES	ITEM DESCRIPT	150000	D O No.	CLIENT:-	NT.			
		LIMITED UNIT-II	SPĘCIFICA DETAILS		P.O No. :	CONSULTA			-	
			IS:13592: 2	2013		CONTRACT	OR:-			
Sr. No.	Clause No.	Name of the test / operation	Measurement Technique/ Type of Instrument used	Unit Of Measurem ent	Extent of Check	Ref. Standards	Requirement	VECTUS	TPI	REMARK
		1. RAW MATERIAL								1
		RAW MATERIAL NAME	AND GRADE:- U	NPLASTIC	CIZED POLYVI	NYL CHLOF	RIDE			
1	6	a) Unplasticized polyvinyl chloride		-	One per lot	IS 13592:2013	If Manufacturer Test	Р	R	If Manufacturer Test
2	6.1,6.2	b)ADDITIVES		-	One per lot	IS 13592:2013	Certificate received for each batch of Raw material further testing would not be	Р	R	Certificate received for each batch of Raw material further testin
3	,6.3	VCM Content		-	One per lot	IS 13592:2013	necessary.	Р	R	would not be necessar
4 Dhy	/sical T	PVC RESIN ( K VALUE )			One per lot	IS		Р	R	1
5	8.1	Visual Appearance	Visual ,	•	100.00%	IS 13592:2013	When viewed without magnification, the internal and external surfaces shall be smooth, clean and free from scoring, cavities and other surface defects which may	Р	W	In process 100 % check will be done b TPI.
6	7.1	Mean Outside Diameter	Pi tape and Vernier Caliper	mm	As per Sample Plan	IS 13592:2013	Maufacture test report	P'	W	
7	7.1	Wall Thickness	Micrometer and Dial thickness gauge	mm	-do-	IS 13592:2013	Maufacture test report	P	w	
8	7.2	Length of pipes	Length Measuring tape	Mtr.	-do-	IS 13592:2013	Maufacture test report	Р	w	
9	7.3.1, 7.3.2	Socket of Pipe	Micrometer and Vernier Caliper	mm	-do-	IS 13592:2013	Maufacture test report	Р	W	
MANL	JFACT	URER		QA/QC			C	LIENT /	TPI	
10	14.1	Marking <sub>(2)</sub>	Visual	-	100.00%	IS 13592:2013	Printing done by Printerimg wheel in blue and white colour, Minimum data for	Р	w	Marking shall be (e.g.) 3 MTRS.
						,	marking shall be taken			VECTUS B.NO.
. FINA	L INSPE	CTION & TESTING				,				VECTUS B.NO.
11	L INSPE	Sampling Procedure	3-1		ANNEX C	IS 13592:2013		-		VECTUS B.NO.
	100.00		- Hot air oven , Vernier caliper	- %	ANNEX C		marking shall be taken  Table No.	- P	- w	VECTUS B.NO.
11	12	Sampling Procedure		%		13592:2013 IS 13592:2013 & IS 12235	marking shall be taken  Table No. 7,8,9,10,11,12  ≤ 5 %, no effect on	P P	w	VECTUS B.NO.
11	8.2	Sampling Procedure  Reversion Test	Vernier caliper  Hot air oven ,		-do-	IS 13592:2013 & IS 12235 (PART 5) IS 13592:2013 & IS 12235	Table No. 7,8,9,10,11,12  ≤ 5 %, no effect on surface.  Not more then 20 % of			VECTUS B.NO.
11 12 13	8.2 8.3	Sampling Procedure  Reversion Test  Stress Relief Test  VICAT SOFTNING	Vernier caliper  Hot air oven , & Oil bath	%	-do-	IS 13592:2013   IS 13592:2013   & IS 12235   (PART 5)   IS 13592:2013   & IS 12235   (PART 6)   IS 13592:2013   & IS 12235	Table No. 7,8,9,10,11,12  ≤ 5 %, no effect on surface.  Not more then 20 % of actual wall thickness	Р	w	VECTUS B.NO.
11 12 13	8.2 8.3 8.4	Sampling Procedure  Reversion Test  Stress Relief Test  VICAT SOFTNING TEMPRATURE	Vernier caliper  Hot air oven , & Oil bath	% C°	-do-	IS 13592:2013   IS 13592:2013   & IS 12235 (PART 5)   IS 13592:2013   & IS 12235 (PART 6)   IS 13592:2013   & IS 12235 (PART 2)   IS 13592:2013   & IS 12235 (PART 2)   IS 13592:2013   & IS 12235	Table No. 7,8,9,10,11,12  ≤ 5 %, no effect on surface.  Not more then 20 % of actual wall thickness  ≥ 80°C  Shall not show dirrerence of more then	P P	W.	
11 12 13 14	8.2 8.3 8.4	Sampling Procedure  Reversion Test  Stress Relief Test  VICAT SOFTNING TEMPRATURE  Effect On Sun light  Resistance to Sulphuric	Vernier caliper  Hot air oven , & Oil bath  VSP TESTER  H <sub>2</sub> SO <sub>4</sub> AND	% C°	-do- -do-	IS 13592:2013 & IS 13592:2013 & IS 12235 (PART 5)  IS 13592:2013 & IS 12235 (PART 6)  IS 13592:2013 & IS 12235 (PART 2)  IS 13592:2013 & IS 12235 (PART 13)  IS 13592:2013 & IS 12235 (PART 13)	Table No. 7,8,9,10,11,12  ≤ 5 %, no effect on surface.  Not more then 20 % of actual wall thickness  ≥ 80°C  Shall not show dirrerence of more then 20 %  MassChange + 0.32 (Max)	P P	P.	

MANUFACTURER

CLIENT / TPI

# **Our Private Sector Clients**









































































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# **Our Govt. Sector Clients**



























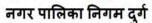












































































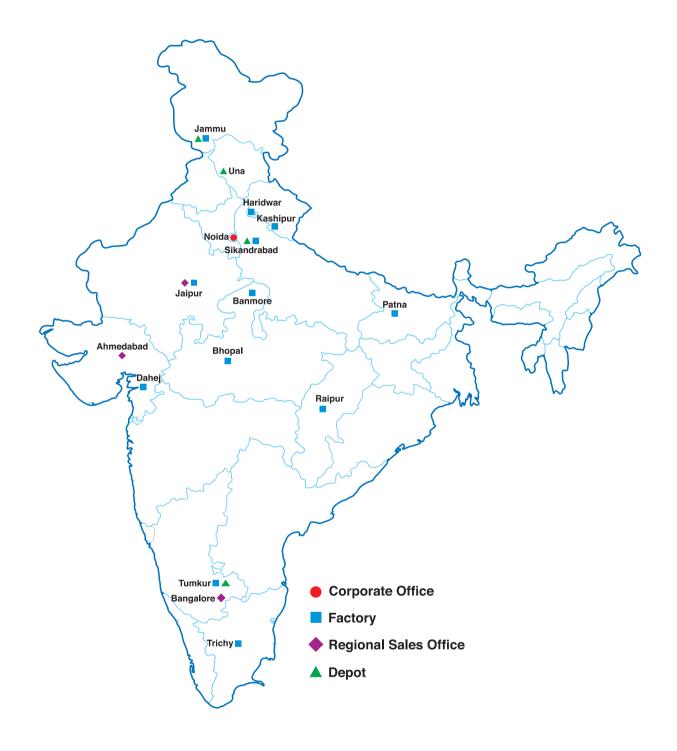








## **OUR SALES & SUPPORT NETWORK**





## **VECTUS INDUSTRIES LIMITED**.....

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