



# C.R.I. PIPES

*Quality in every inch*

## ONE STOP PIPING SOLUTION







## Vision, Mission and Values

To be the industry leader providing best-in-class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **Commitment, Reliability and Innovation.**





## ABOUT C.R.I.



C.R.I. ranks high among the world's fastest-growing fluid management solutions provider with a wide global presence. C.R.I. offers Pumps, Motors, IoT Driven Pumps, IoT Drives & Controllers, Pipes, Wires & Cables, Solar Pumps and Controllers to meet the pumping needs of its wide customer base.



**60+** Years  
of Engineering  
Expertise



**120+** Countries  
have our strong  
global presence



**21+**  
Manufacturing Units  
around the World



**30000+** Outlets  
to serve our  
Customers



**9000+**  
Products for various  
applications



**1500+**  
Service Centres to  
support our Customers



**18 Times**  
EEPC Award Winner  
for Export Excellence



**8 Times**  
NEC Award Winner  
for Energy Savings



**Fludyn Advanced  
Technology Centre**  
Recognized by Ministry of  
Science & Technology,  
Govt. of India.

**C.R.I. PIPES** - C.R.I.'s state-of-the-art manufacturing facility at Ahmedabad & Hosur produces all kinds of best quality PVC, UPVC, CPVC Pipes & Fittings. The plants are empowered with fully automated machines that control the manufacturing process.

**C.R.I. WIRES & CABLES** - C.R.I.'s Wires & Cables are manufactured at its state-of-the-art manufacturing facility. The systems at the manufacturing facility are ISO-9001 certified and the products manufactured to meet the relevant standards.

**C.R.I. SOLAR PUMPING SYSTEM** - C.R.I. manufactures sustainable Solar Pumping Systems designed to work with best in class efficiency. With this C.R.I. emphasizes its focus towards greener technology.





# uPVC COLUMN PIPES

## Coupler & Bell Mouth Type

These pipes are specially designed for submersible pumps, capable of handling both internal hydrostatic pressure as well as high tensile load caused by the pump weight & column water pressure and weight. In general the first pipe fitted with the pump will be subjected to high hydrostatic pressure and the top most one has to withstand the entire weight of the column water & pump. These pipes are available in 33, 42, 48, 60, 75, 88, 113, and 140 mm sizes of outer diameter under ESPY, Elite, Medium, Standard, Heavy and Super Heavy types. The Maximum Working Head for Coupler type is up to 450 mtrs and for Bell Mouth up to 300 mtrs.

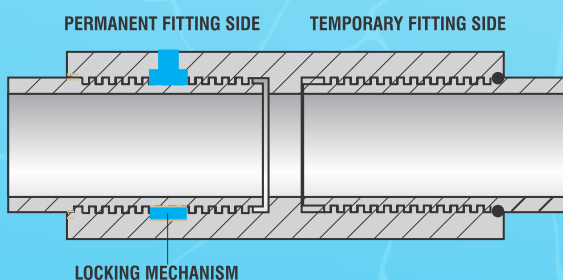




## FEATURES

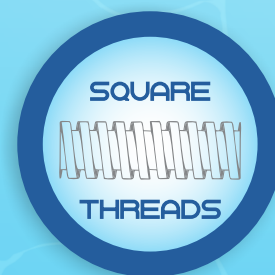
- Rigid construction & longer life span of upto 25 years.
- Best alternate for G.I. Pipes and are corrosion free & cost effective.
- Special care is taken while fixing couplers with pipes to avoid column slippage.
- Specially designed square threads are capable of withstanding heavy load.
- PBTS (Polymer Bonded Thread Sink) locking system enhances reliability.
- Special rubber seal is provided at the end of threads to ensure 100% leak proof even at high pressure.
- A special rubber (EPDM - high strand) ring is provided in the coupling between the 2 pipes to absorb the vibration caused due to high pressure.
- Internal surface of these pipes are very smooth, resulting in very low head loss due to friction and increases water discharge upto maximum of 30%, compared with traditional G.I. pipes thereby saving power.
- Because of this light weight characteristic & Special Square thread design these pipes can be tightened easily by hand and no need of pipe wrench.
- uPVC column pipes are resistant to chemical reactions when used in acidic or alkaline waters assuring long life.
- Handles water with maximum temperature upto 45° C.
- These pipes come in 3metre standard length and are of light weight ensuring easy handling and storage. Also supplied in 1.5metre length on request.
- Can be used in sun light because of it UV stability.

### PBTS - LOCKING SYSTEM (Polymer Bonded Thread sink)



The pipe couplers are locked with a special locking mechanism called PBTS. Advantage of this system is, it cannot be un-threaded and dismantled and will provide rigid locking. It will withstand high tensile force, ensures durability of the joints, and also acts as leak proof.

### SQUARE THREADS



The pipe joints have been specially designed with square threads & rubber rings made off Vinoprene, to ensure proper gripping & 100% leak proof. These are high friction threads on load, which do not open even on constant forward & reverse torque generated by starting and stopping the pump.



# C.R.I. uPVC COLUMN PIPES - COUPLER

## Dimension & Weight details

ESPY TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	3.40	3.60	1.60	1.80	125	25	800	480
	42	32	3.70	4.00	2.00	2.30	125	25	1350	770
	48	40	3.80	4.10	2.40	2.70	125	20	1750	1000

ELITE TYPE	33	25	3.60	3.90	1.70	2.00	150	25	1000	700
	42	32	4.70	5.00	2.50	2.80	150	25	1500	1000
	48	40	5.00	5.30	2.80	3.10	150	20	2000	1200
	60	50	4.50	4.80	2.40	2.70	90	15	2500	1300

MEDIUM TYPE	33	25	4.20	4.50	2.00	2.30	210	25	1400	770
	42	32	5.10	5.40	3.10	3.40	210	20	2100	1200
	48	40	5.50	5.80	3.30	3.60	210	15	2500	1300
	60	50	5.30	5.60	2.80	3.10	130	15	2800	1500
	75	65	5.30	5.60	2.80	3.10	100	10	3500	1900
	88	80	6.00	6.30	3.40	3.70	110	8	5000	2750
	113	100	6.30	6.60	3.80	4.10	100	5	7500	4100
Plus	60	50	5.60	5.9	3.4	3.7	170	10	3150	1850

STANDARD TYPE	33	25	5.40	5.70	3.30	3.60	300	25	1800	1300
	42	32	5.70	6.00	3.50	3.80	260	20	2500	1500
	48	40	6.30	6.60	4.00	4.30	260	15	3000	1700
	60	50	6.50	6.80	4.00	4.30	200	10	3800	2100
	75	65	6.80	7.10	4.40	4.70	160	8	5000	2700
	88	80	8.00	8.30	5.40	5.70	170	5	7000	4000
	113	100	8.20	8.50	5.70	6.00	150	4	10300	5700
	140	125	10.30	10.6	7.6	7.9	160	2	16500	9700

HEAVY TYPE	42	32	6.60	6.90	4.50	4.80	350	15	3100	1550
	48	40	7.60	7.90	5.20	5.50	350	12	4000	2000
	60	50	8.10	8.40	5.40	5.70	270	10	4700	2850
	75	65	9.20	9.60	6.40	6.70	260	6	7000	4200
	88	80	10.10	10.40	7.60	7.90	260	5	9500	5700
	113	100	11.90	12.30	9.40	9.70	260	3	16000	9500
	140	125	15.32	15.62	11.9	12.2	260	2	24000	14600
Plus	63	50	8.70	9.1	6.2	6.5	300	8	5750	3400

SUPER HEAVY TYPE	42	32	7.80	8.1	5.3	5.6	400	12	3150	1850
	60	50	9.20	9.50	6.80	7.10	350	8	5600	3500
	75	65	11.30	11.60	8.80	9.10	350	5	8600	4800
	88	80	12.80	13.10	10.00	10.30	350	4	11900	6600
	113	100	15.10	15.40	12.60	13.00	350	2	19800	11000
	140	125	19.00	19.3	15.6	15.9	350	2	30500	18600
Plus	42	32	8.50	8.80	6.00	6.3	450	12	3500	2100



## C.R.I. uPVC COLUMN PIPES - BELLMOUTH

### Dimension & Weight details

ESPY TYPE	OUTER DIAMETER	NOMINAL DIAMETER	WALL THICKNESS AT ENDS (mm)		WALL THICKNESS AT BARELL (mm)		MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
	mm	mm	Min	Max	Min	Max				
	33	25	3.40	3.60	1.60	1.80	125	25	650	460
	42	32	3.70	4.00	2.00	2.30	125	25	1100	725
	48	40	3.80	4.10	2.40	2.70	125	20	1300	800

ELITE TYPE	33	25	3.60	3.90	1.70	2.00	150	25	900	630
	42	32	4.70	5.00	2.50	2.80	150	25	1500	1000
	48	40	5.00	5.30	2.80	3.10	150	20	1900	1170
	60	50	4.50	4.80	2.40	2.70	90	15	2200	1300

MEDIUM TYPE	33	25	4.20	4.50	2.00	2.30	210	25	1250	720
	42	32	5.10	5.40	3.10	3.40	210	25	2000	1150
	48	40	5.50	5.80	3.30	3.60	210	20	2300	1250
	60	50	5.30	5.60	2.80	3.10	130	15	2700	1450

STANDARD TYPE	33	25	5.40	5.70	3.30	3.60	300	25	1550	1100
	42	32	5.70	6.00	3.50	3.80	260	25	2200	1380
	48	40	6.30	6.60	4.00	4.30	260	20	2700	1500
	60	50	6.50	6.80	4.00	4.30	200	15	3500	1950

## PUMP DELIVERY PRESSURE

Pump delivery pressure is the maximum delivery head of the pump. In the pump performance curves the value of head at which the flow becomes nil (zero), is the max. head in metres. Hence the max. head of the pump must not exceed the recommended permissible hydrostatic pressure of the pipes published in the following table.

(10m = 1kg/cm<sup>2</sup>)

OUTER DIAMETER	NOMINAL DIAMETER	Permissible Hydrostatic Pressure (kg/cm²)								
		ESPY	ELITE	MEDIUM	MEDIUM PLUS	STAND- ARD	HEAVY	HEAVY PLUS	SUPER HEAVY	SUPER HEAVY PLUS
mm	mm									
33	25	12.5	15	21	-	30	-	-	-	-
42	32	12.5	15	21	-	26	35	-	40	45
48	40	12.5	15	21	-	26	35	-	-	-
60	50	-	9	13	17	20	27	-	35	-
63	50	-	-	-	-	-	-	30	-	-
75	65	-	-	10	-	16	26	-	35	-
88	80	-	-	11	-	17	26	-	35	-
113	100	-	-	10	-	15	26	-	35	-
140	125	-	-	-	-	16	26	-	35	-

\* Installation depth depends on recommended permissible hydrostatic pressure rating of the pipes and refer pump delivery pressure chart for more details.

# UPVC COLUMN PIPES - 6 mtr (20 Ft)

## Coupler & Bell Mouth Type

These pipes are available in 33, 42, 48, 60, 75, 88 and 113 mm sizes of outer diameter under ESPY, Elite, Medium, Standard, Heavy and Super Heavy types. The Maximum Working Head for Coupler type is upto 450 mtrs and for Bell Mouth upto 150 mtrs.

Redefining  
heights

6<sub>mtr</sub> (20ft)

C.R.I. Column Pipes





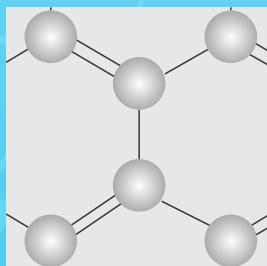
## C.R.I. uPVC COLUMN PIPES - COUPLER TYPE 6mtr (20ft)

PIPE TYPE	OUTER DIAMETER mm	NOMINAL DIAMETER	MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE (6 metre)	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
		mm				
ESPY	33	25	125	25	700	500
ESPY	42	32	125	20	1100	800
ESPY	60	50	70	10	1500	1100
ELITE	42	32	150	15	1500	1100
ELITE	60	50	90	10	2200	1500
MEDIUM	60	50	130	10	2800	2000
MEDIUM	88	80	110	6	4000	2800
MEDIUM	113	100	100	4	6500	4600
STANDARD	60	50	200	6	3600	2500
STANDARD	88	80	170	4	7000	4900
STANDARD	113	100	150	3	10000	7000
HEAVY	88	80	260	4	9000	6300
HEAVY	113	100	260	3	13000	9500
SUPER HEAVY	60	50	350	5	5300	3800
SUPER HEAVY PLUS	42	32	450	8	3200	2300

## C.R.I. uPVC COLUMN PIPES - BELLMOUTH TYPE 6mtr (20ft)

PIPE TYPE	OUTER DIAMETER mm	NOMINAL DIAMETER	MAX. RECOMMENDED INSTALLATION DEPTH in metre	NO. OF PIPES PER BUNDLE (6 metre)	ULTIMATE BREAKING LOAD in kg	SAFE PULLING LOAD WITH CHAIN PULLEY in kg
		mm				
ESPY	33	25	125	25	700	500
ESPY	42	32	125	20	1000	700
ELITE	42	32	150	15	1200	800

## BI-AXIAL ORIENTATION



**Bi-axial orientation during  
column pipe extrusion**

Specially designed Bi-axial design tool in column extrusion process ensures the PVC molecular chain gets linear & diametrically oriented by which gives higher drop impact and notch impact strength to the pipes.

# CERTIFICATIONS



## CERTIFICATE

Management system as per  
**ISO 9001 : 2015**

In accordance with TÜV NORD CERT procedures, it is hereby certified that

**C.R.I. PUMPS PRIVATE LIMITED**  
**UNIT : KRISGO INDUSTRIES - II**  
**No.431 & 432, Alur Village,**  
**Near Sipcot Phase-II,**  
**Hosur, Tamilnadu – 635 109,**  
**India**



applies a management system in line with the above standard for the following scope

**Manufacture and Supply of PVC Pipes and Accessories.**

Certificate Registration No. **44 100 18591932/16**  
 Audit Report No. **2-3-499629/16**

*SCG*

Certification Body  
 at TÜV NORD CERT GmbH

Valid until **04.09.2021**


Issue **05.09.2018**  
 Place : **Mumbai**

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures & shall be valid subject to regular Surveillance Audits.

TÜV NORD CERT GmbH    Langemarkstrasse 20    45141 Essen    [www.tuv-nord-cert.com](http://www.tuv-nord-cert.com)

TÜV India Pvt. Ltd.,    801, Phejas Plaza – 1, L.B.S. Marg,    Ghatkopar (W),    Mumbai - 400 086, India    [www.tuv-india.com](http://www.tuv-india.com)



Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002, 9 Bahadur Shah Zafar Marg, DELHI 110002

Phone: +91 11 23230131, 23233375, 23239402  
 Fax: +91 11 23234062, 232  
 E-Mail: [info@bis.gov.in](mailto:info@bis.gov.in)  
 Web: [www.bis.org.in](http://www.bis.org.in), [www.manakonline.in](http://www.manakonline.in)

Date: 06/2017

Our Ref :CML 670005915

Subject: Grant of BIS Certification Marks Licence No 670005915 as per IS 4985:2000

**M/s KRISGO INDUSTRIES, UNIT - II**  
**(A UNIT OF C.R.I.PUMPS PVT LTD)**  
**8F No.431&2, ALUR VILLAGE,**  
**HOSUR TALUK,**  
**KRISHNAGIRI,**  
**TAMIL NADU/635109**

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you a licence to use the Standard Mark in respect of the following:


**Unplasticized PVC Pipes for Potable Water Supplies**  
**Class 1, Size 90 to 250mm Plain & Socketed Solvent Cement jointing**  
**Class 2, Size 63 to 250mm Plain & Socketed Solvent Cement jointing**  
**Class 3, Size 40 to 250mm Plain & Socketed Solvent Cement jointing**  
**Class 5, Size 20 to 250mm Plain & Socketed Solvent Cement jointing and**  
**Plumbing pipes, Size 20mm to 50mm**

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

2. The number assigned to this licence is CML- 670005915 which has been made operative from **02-06-2017** and is valid upto **01-06-2018**. The licence number should invariably be referred to in your future correspondence.

3. According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulation, 1988, the licence fee of Rs Rs. 2000.00 and the marking fee as stipulated in the Second Schedule of this licence is payable by you with effect from 02-06-2017 for the period of validity of the licence. Service tax @ 15.00 % as applicable shall also be charged.

4. Minimum marking fee stipulated therein is payable by you regardless of the whether you actually mark your product or not with the Standard Mark.



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 Web: [www.bis.org.in](http://www.bis.org.in), [www.manakonline.in](http://www.manakonline.in)

Date: 06/2017

Our Ref :CML 670005916

Subject: Grant of BIS Certification Marks Licence No 670005916 as per IS 12818.

**M/s KRISGO INDUSTRIES, UNIT - II**  
**(A UNIT OF C.R.I.PUMPS PVT LTD)**  
**8F No.431&2, Sumanapalli Road,**  
**Alur Village, Hosur Taluk,**  
**KRISHNAGIRI,**  
**TAMIL NADU/INDIA 635109**

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you a licence to use the Standard Mark in respect of the following:


**Unplasticized Polyvinyl Chloride (pvc-u) screen And Casing Pipes For Bare/burrow**  
**CS Pipe DN 150, 175 & 200**  
**CM Pipe DN 100, 115, 125, 150, 175 & 200**

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

2. The number assigned to this licence is CML- 670005916 which has been made operative from **06-06-2017** and is valid upto **05-06-2018**. The licence number should invariably be referred to in your future correspondence.

3. According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulation, 1988, the licence fee of Rs Rs. 2000.00 and the marking fee as stipulated in the Second Schedule of this licence is payable by you with effect from 06-06-2017 for the period of validity of the licence. Service tax @ 15.00 % as applicable shall also be charged.

4. Minimum marking fee stipulated therein is payable by you regardless of the whether you actually mark your product or not with the Standard Mark.



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Date: 20-06-2017

Our Ref :CML 6700059413

Subject: Grant of BIS Certification Marks Licence No 6700059413 as per IS 13592.

**M/s KRISGO INDUSTRIES (UNIT-II)**  
**(A UNIT OF C.R.I. PUMPS PVT LTD)**  
**8F No.431&2, Sumanapalli Road**  
**Alur Village, Hosur Taluk,**  
**KRISHNAGIRI,**  
**TAMIL NADU/INDIA 635109**

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you a licence to use the Standard Mark in respect of the following:


**UPVC pipes for soil and waste discharge system**  
**Type A, DN 40, 50, 63, 75, 90, 110, 125, 140 & 160**  
**Grooved Socket end and Socket ended for Solvent Cement jointing**  
**Type B, DN 40, 50, 63, 75, 90, 110, 125, 140 & 160**  
**Grooved Socket end and Socket ended for Solvent Cement jointing**

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

2. The number assigned to this licence is CML- 6700059413 which has been made operative from **02-06-2017** and is valid upto **01-06-2018**. The licence number should invariably be referred to in your future correspondence.

3. According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulation, 1988, the licence fee of Rs Rs. 2000.00 and the marking fee as stipulated in the Second Schedule of this licence is payable by you with effect from 02-06-2017 for the period of validity of the licence. Service tax @ 15.00 % as applicable shall also be charged.

4. Minimum marking fee stipulated therein is payable by you regardless of the whether you actually mark your product or not with the Standard Mark.



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 Web: [www.bis.org.in](http://www.bis.org.in), [www.manakonline.in](http://www.manakonline.in)

Date: 20-06-2017

Our Ref :CML 6700059514

Subject: Grant of BIS Certification Marks Licence No 6700059514 as per IS 15778.

**M/s KRISGO INDUSTRIES, UNIT - II**  
**(A UNIT OF C.R.I.PUMPS PVT LTD)**  
**8F No.431 & 432 Alur Village,**  
**HOSUR,**  
**KRISHNAGIRI,**  
**TAMIL NADU/INDIA 635109**

Dear Sir,

With reference to your application, we are pleased to inform you that it has been decided to grant you a licence to use the Standard Mark in respect of the following:

**Chlorinated polyvinyl chloride (CPVC) pipes for potable hot and cold water distribution supplies**  
**Class 1 SDR 11, Sizes - 15mm to 50mm**  
**Class 2 SDR 13.5 Sizes 15mm to 50mm**

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

2. The number assigned to this licence is CML- 6700059514 which has been made operative from **02-06-2017** and is valid upto **01-06-2018**. The licence number should invariably be referred to in your future correspondence.

3. According to sub-regulation (2) of Regulation 6 of Bureau of Indian Standards (Certification) Regulation, 1988, the licence fee of Rs Rs. 2000.00 and the marking fee as stipulated in the Second Schedule of this licence is payable by you with effect from 02-06-2017 for the period of validity of the licence. Service tax @ 15.00 % as applicable shall also be charged.

4. Minimum marking fee stipulated therein is payable by you regardless of the whether you actually



**IAPMO Plumbing Codes and Standards India Pvt. Ltd.**  
 No.43, 4th Floor, PNR Tower, Serenitee Apartments, Near IISc Road junction, Bangalore, Karnataka 560 009



## CERTIFICATE OF LISTING

LICENSING: Krigo Industries Unit-II, Unit of C.R.I. Pumps Private Limited, Alur Village, Hosur, TN, India Pin: 635 109  
 File No. IN-178    Product: Drinking Water System Components- Health Effects    Valid After FEBRUARY 28, 2021

IDENTIFICATION: Each of the listed uPVC Casing Pipes shall be permanently and legibly marked with the manufacturer's name or trademark or name of the client to which the products are manufactured. The product may be marked with "LEAD FREE" in compliance with the standard designation "NSF/ANSI 372". Product also complies to RoHS requirement.

CHARACTERISTICS: Materials or products that come into contact with drinking water and/or drinking water treatment chemicals. Products and materials may include process media, protective materials, joining and sealing materials, pipes and related products, mechanical devices and with treatment/distribution/distribution systems, and mechanical joining devices. To be installed in accordance with the manufacturer's instruction. Lead free requirements are addressed under this certificate of listing based on RoHS compliance.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

Products are in compliance with the following standard(s): NSF/ANSI 372:2016 and RoHS.

*K. Chandrasekhar*  
 Dr. K. Chandrasekhar  
 Managing Director

*Ravi Chandy*  
 Ravi Chandy  
 CEO, The IAPMO Group



This listing period is based upon the last date of the reports indicated on the Effective Date and last date shown above. Any change in material, manufacturing process, marking or design without notice that contained the substance of listed pipes, or any material of non-compliance with applicable codes and standards is of notice. Furthermore, any change in design or manufacturing process may be grounds for revocation of this listing.

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Redefining  
heights

6<sub>mtr</sub> (20ft)

C.R.I. Column Pipes



✿ CATERS TO DIVERSE SEGMENTS ✿

WATER & WASTE WATER | SOLAR | PROCESS INDUSTRIES | SEWAGE & EFFLUENT  
TREATMENT PLANTS HVAC | FIRE FIGHTING | METAL & MINING | FOOD & BEVERAGE  
AGRICULTURE | RESIDENTIAL



**C.R.I. PIPES**  
*Quality in every inch*



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