

# TRANSPORTING WATER ACROSS THE CIVILIZATIONS



**RASHMI METALIKS LIMITED**  
DUCTILE IRON PIPES





## SHRI SAJJAN KUMAR PATWARI (GROUP CHAIRMAN)

*“Rashmi Group envisions a future of innovation, sustainability, and global collaboration. Together, we lead with purpose, pioneering solutions that enrich lives and inspire progress for generations to come.”*

Rashmi Group stands as a prominent Business Conglomerate in India, recognized for its expansive operations. Pioneering the integration of Iron & Steel Products, Cement, Power, and Ferro Alloys, the group is under the astute guidance of **Shri Sajjan Kumar Patwari** along with his three sons - **Shri Sunil Kumar Patwari**, **Shri Sanjib Kumar Patwari**, and **Shri Sanjay Kumar Patwari**.

Strategically headquartered in Kolkata, the group maintains its operational footprint through strategically positioned manufacturing facilities in Kharagpur and Jhargram. The product portfolio boasts a diverse array, encompassing DI Pipes and Fittings, TMT Bars, Pig Iron, Wire Rods, MS Billets, Sponge Iron, Sinter, Ferro Alloys, Pellets, Cement, Nitrile Gloves, Seamless Pipes & Tubes, Digital Networking Devices, Bio Pellets, Biochar and Dredging solutions.

With a presence in 50+ countries and 20,000+ employees, it is Eastern India's only **debt-free** Iron & Steel company. Recognized as an "**Ultra Mega Project**" by the West Bengal Government, Rashmi Group continues to drive industrial growth globally.



# RASHMI METALIKS LIMITED

INDIA'S LARGEST & GLOBALLY 2ND LARGEST DUCTILE IRON PIPES AND FITTINGS MANUFACTURER

Rashmi Metaliks Limited is a name synonymous with reliability & quality in India's iron & steel manufacturing industry. It is one of the flagship companies of Rashmi Group, incorporated in the year 2004 in West Bengal. We have a State-Of-The-Art Integrated Steel manufacturing facility comprised of Pellet, Sinter, Pig iron, Sponge Iron, Ductile Iron Pipe and Fittings, Billet, TMT & Wire Rod.

Rashmi Metaliks is one of the leading manufacturers of DI Pipes & Fittings in the world. We have a substantial number of jointing options with various internal and external coating types based on customer's requirements. We have upgraded our production to **7,70,000 Metric Tonnes of DI Pipes & 26,000 Metric Tonnes of DI Fittings** annually.



## OUR VISION

- To strive to be a leader in their area of operation.
- To uphold the interest of stakeholders.
- To make their operations environmentally friendly.

## OUR MISSION

Our mission is to produce best quality products at competitive prices for creating value for our clientele and stakeholders. We shall pursue the policy of transparency and adherence to modern management practices, while our commitment to highest standards of responsible ethical conduct in the organization shall continue as ever. We will remain committed to provide our employees with a safe and healthy working environment.



# DUCTILE IRON (DI) PIPES

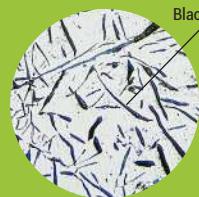
## DELIVERING LIFE (WATER) TO DISTANT LANDS

Ductile Iron (DI) Pipes have emerged as the best choice for water supply and pressure sewerage systems worldwide. While having a chemical composition similar to cast iron, ductile iron stands out for its spheroidal microstructure, offering numerous advantages including ***enhanced pressure-bearing capacity***, ***superior impact resistance***, and ***heightened corrosion resistance***. These properties make it highly desirable for a range of applications, contributing to its widespread adoption in various infrastructure projects.

### BENEFITS OF USING DUCTILE IRON PIPES

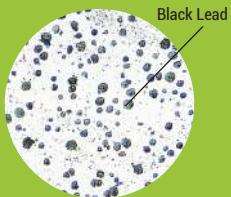
- High Tensile Strength
- Corrosion Resistant
- Flexible and Leak Resistant
- Durable Cement Mortar Lining
- Excellent Workability

Gray Cast Iron



Stereo Microscope photo of  
Gray Cast Iron (X100)

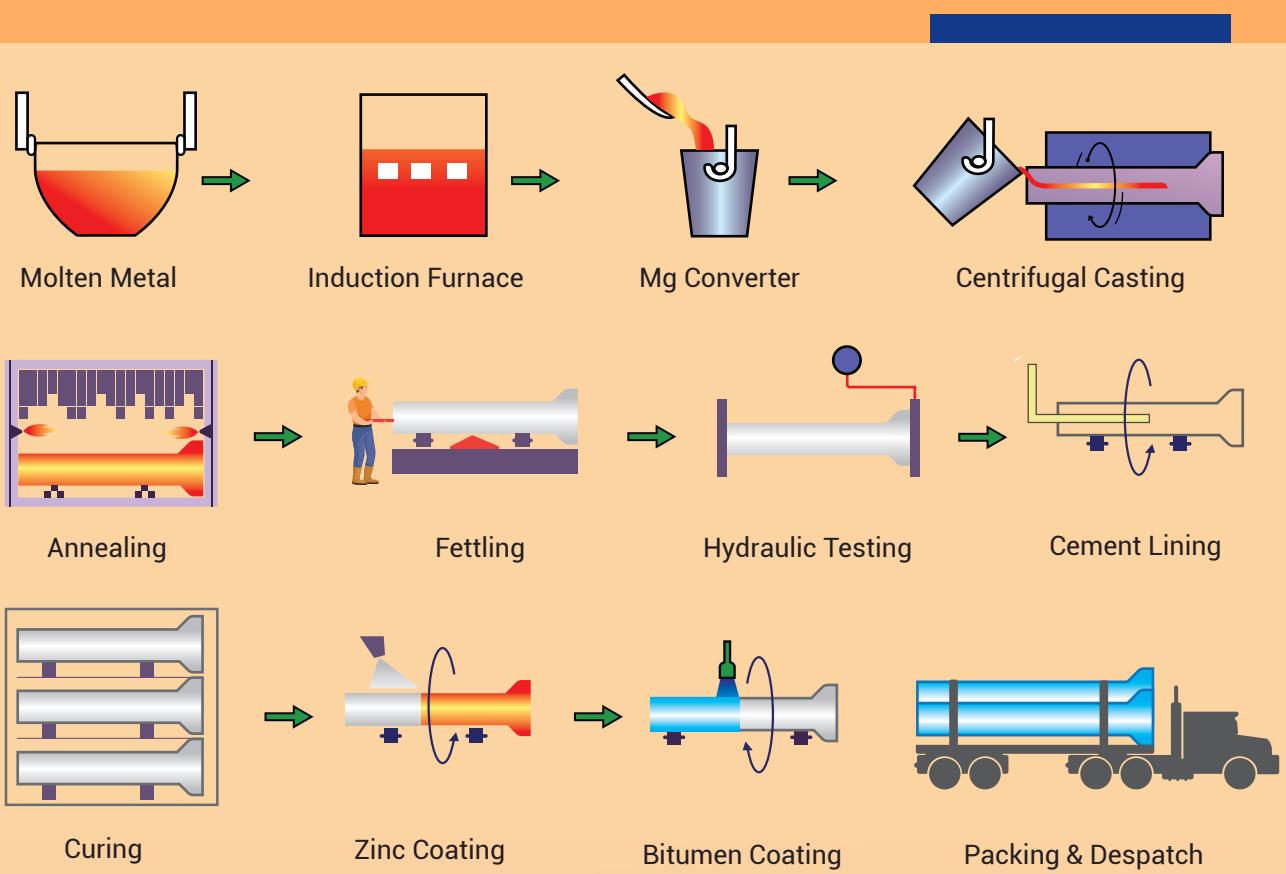
Ductile Iron



Stereo Microscope photo of  
Ductile Iron (X100)

# DI PIPES MANUFACTURING PROCESS

The Ductile Iron Pipes manufactured by RASHMI METALIKS LTD encompass a wide dimension spectrum ranging from DN 80 to DN 1200, boasting a standardized length of 5.5 meters. These pipes adhere to quality benchmarks such as Indian Standards IS 8329 and International Standards ISO 2531, while also holding accreditations from BS EN 545 and BS EN 598. With ISO 9001, ISO 2531, and ISO 14001 certifications in place, the company is equipped to serve both domestic and international markets with superior reliability and quality assurance.





# INSPIRED BY QUALITY

## Mechanical Properties of DI Pipes by Rashmi Metaliks Limited

Mechanical Properties	Values
Minimum Ultimate Tensile Strength	Min. 420 MPa
Proof Strength	Min. 270 MPa
Minimum Elongation	DN40 to DN1000- 10%, DN1100 to DN2000-7%
Modulus of Elasticity	1.62 x 10 <sup>6</sup> - 1.70 x 10 <sup>6</sup> Kg/cm <sup>2</sup> or 162,000 - 170,000 MPa
Hardness	Max. 230 HBW
Density	7,050 Kg per cubic meter
Coefficient of Thermal Expansion	11.5 x 10 <sup>-6</sup> per degree celsius ( °C ) (for temperature range 200°C - 1000°C)
Impact Strength	At Normal Temperature - 7 ft-lb (minimum) & At Low temperature - 3 ft-lb (minimum )

## Angular Deflection of DI Pipes by Rashmi Metaliks Limited

Diameter Range (DN)	Angular Deflection
DN 80 - DN 150	4°
DN 200 - DN 300	4°
DN 350 - DN 600	3°
DN 700 - DN 800	2°
DN 900 - DN 1000	
DN 1100 - DN 1200	

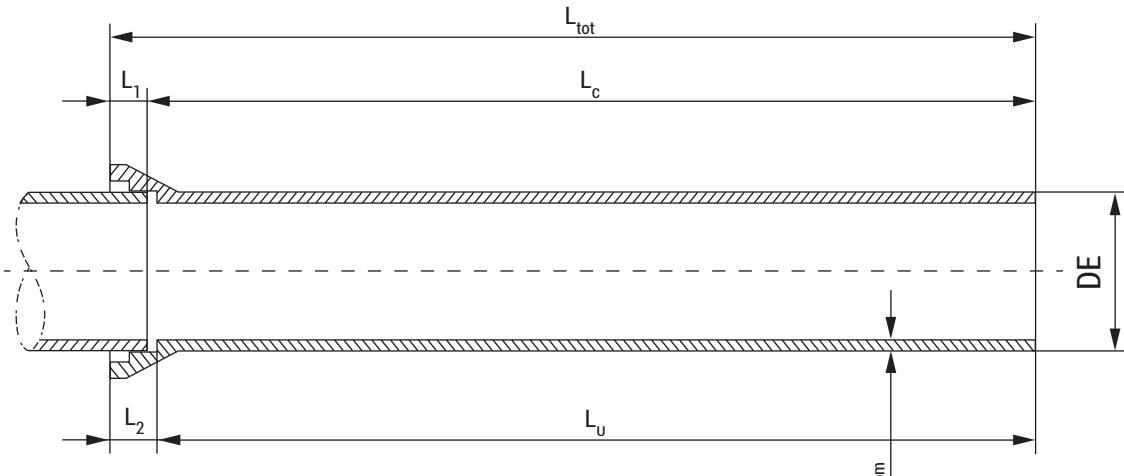


## HIGH-TECH IN-HOUSE PERFORMANCE TEST FACILITY



# PUSH-ON JOINTS

## DIMENSION DETAILS



Key

$OL$  = overall length in meters  
 $L_u$  =  $OL$  -  $DOS$ ; standardized length in meters

$e$  = nominal wall thickness in mm  
 $DE$  = nominal external diameter of spigot in mm

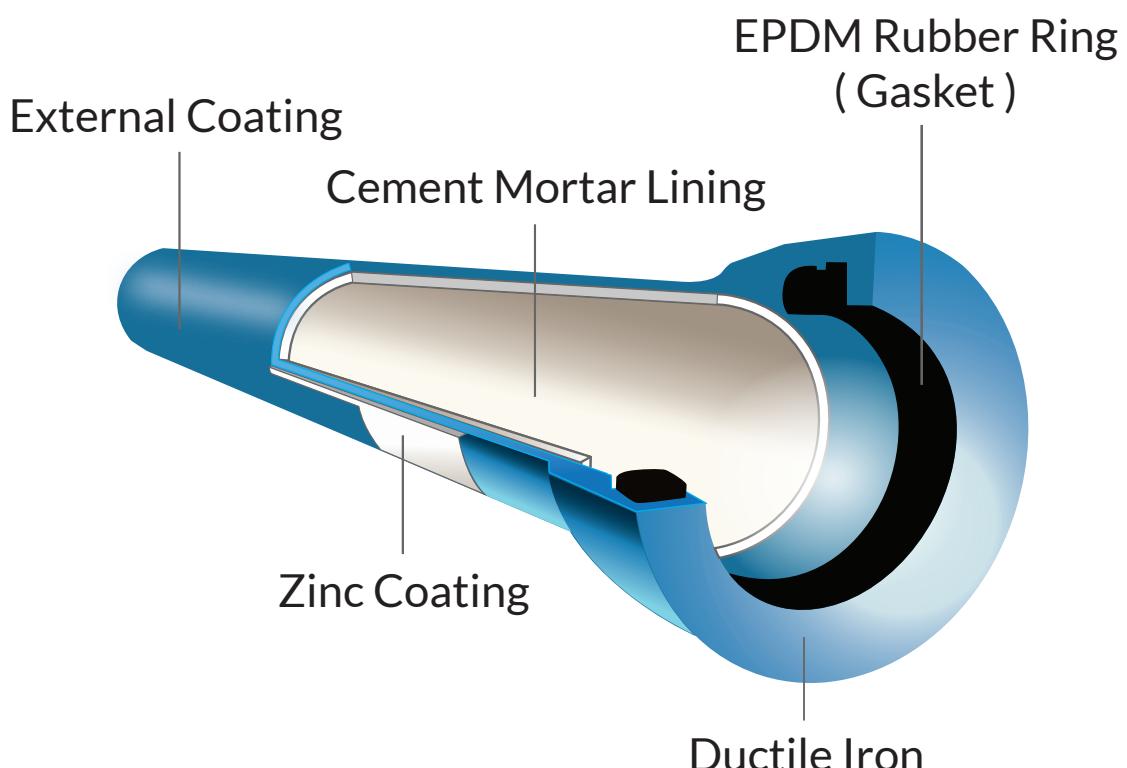
## NOMINAL WALL THICKNESS CHART FOR VARIOUS CLASSES OF DI PIPES PUSH ON JOINT

Nominal Diameter	External Diameter		Nominal Pipe Wall Thickness, $e$ (mm), Various Classes of Pipes									
			C 25	C 30	C 40	C 50	C 64	C 100	As Per BS EN 598 (Pressure Pipe)	K7	K9	
80	98	+1/-2.7			4.4	4.4	4.4	4.8	4.8	5.0	6.0	
100	118	+1/-2.8			4.4	4.4	4.4	5.5	4.8	5.0	6.0	
125	144	+1/-2.8			4.5	4.5	4.8	6.5	4.8	5.0	6.0	
150	170	+1/-2.9			4.5	4.5	5.3	7.4	4.8	5.0	6.0	
200	222	+1/-3.0			4.7	5.4	6.5	9.2	4.9	5.0	6.3	
250	274	+1/-3.1			5.5	6.4	7.8	11.1	5.3	5.3	6.8	
300	326	+1/-3.3		5.1	6.2	7.4	8.9	12.9	5.6	5.6	7.2	
350	378	+1/-3.4	5.1	6.3	7.1	8.4	10.2	14.8	6.0	6.0	7.7	
400	429	+1/-3.5	5.5	6.5	7.8	9.3	11.3	16.5	6.3	6.3	8.1	
450	480	+1/-3.6	6.1	6.9	8.6	10.3	12.6	18.4	6.7	6.6	8.6	
500	532	+1/-3.8	6.5	7.5	9.3	11.2	13.7	20.2	7.0	7.0	9.0	
600	635	+1/-4.0	7.6	8.7	10.9	13.1	16.1	23.8	7.7	7.7	9.9	
700	738	+1/-4.3	8.8	9.9	12.4	15.0	18.5	27.5	9.6	8.4	10.8	
750	790	+1								8.8	11.3	
800	842	+1/-4.5	9.6	11.1	14.0	16.9	21.0		10.4	9.1	11.7	
900	945	+1/-4.8	10.6	12.3	15.5	18.8	23.4		11.2	9.8	12.6	
1000	1048	+1/-5.0	11.6	13.4	17.1	20.7			12.0	10.5	13.5	
1100	1152	+1/-6.0	12.6	14.6	18.6	22.6			14.4	11.2	14.4	
1200	1255	+1/-6.2	13.6	15.8	20.2	24.5			15.3	11.9	15.3	

# TECHNICAL SPECIFICATIONS

<b>Product</b>	<b>Ductile Iron (DI) Pipes suitable for Push-on-Joints*</b>
Size Range	DN 80 to DN 1200
Class of DI Pipes	C20, C25, C30, C40, C50, C64, C100, PP, K-7 & K-9
Standard Length (in Meters)	5.5
Types	Push-on Joint, Restrained Joint
Internal Linings	Cement Mortar Lining of OPC / SRC Cement Mortar Lining with Seal Coat Internal Fusion Bond Epoxy Coating Internal Polyurethane Coating
External Coating – 1	Zinc Coating Alloy of Zinc & Aluminium (ZnAl) Bitumen Coating post Zn or ZnAl
External Coating - 2	Blue or Red Epoxy External Fusion Bond Epoxy Coating External Polyurethane Coating
Conforming Specifications	IS 8329/IS 9523, ISO 2531/BS EN 545, ISO 2531, ISO 7186, BS EN 598, ISO 4179 & ISO 8179

\* RML also provides customized pipe joint design suitable for Restrained/Anchor Joints as per customer requirement.



# ADVANTAGE OF DUCTILE IRON PIPES

- High corrosion resistance after suitable protection
- Excellent hydraulic flow
- High tensile strength
- Good elastic modulus and excellent ductility
- Suitable for high stress applications subjected to pressure surge
- High working pressure compared to other metallic pipes
- Ease of installation
- Long service Life
- Can accommodate ground movement



# APPLICATIONS OF DUCTILE IRON PIPES

- Raw and clear water transmission
- Distribution network of potable water
- Water supply for industrial/process plant application
- Ash-Slurry Handling & Disposal system
- Fire-Fighting systems
- Sewerage and waste water main
- Gravity sewerage collection and disposal system
- Storm water drainage piping
- Effluent disposal system for domestic and industrial application
- Piping work inside water and sewerage treatment plants
- Vertical connection to utility and reservoirs
- Piling for ground stabilization
- Protective piping under major carriage-ways
- Irrigation water networks



# QUALITY OVER QUANTITY



## MANUFACTURING FACILITIES

The cutting-edge, fully integrated facility for the production of Ductile Iron Pipes, Fittings and Pig Iron is situated in Kharagpur, West Bengal, adjacent to the Kolkata (Haldia) Sea Port. This Greenfield Project represents a pinnacle of modern engineering and innovation. Its comprehensive manufacturing infrastructure encompasses:

- Sintering Plant
- Blast Furnace
- DI Pipe Manufacturing Facility
- Committed Railway Siding
- Pellet Plant
- Captive Power Unit

This manufacturing facility has the capacity to produce DI pipes ranging from DN 80 to DN 1200, with an annual capacity of 7,70,000 metric tons and DI Fittings with an annual capacity of 26,000 metric tons. Aligned with its commitment to delivering high-quality pipes and fittings, Rashmi Group consistently invests in cutting-edge testing and monitoring equipment.

## QUALITY MEASURES

RASHMI METALIKS follows stringent quality parameters at its manufacturing unit, guaranteeing top-notch products for its clients. Rigorous quality assessments are done at each phase of the manufacturing process, ensuring compliance with global standards. The manufacturing facility or plant operates its Blast Furnace Manufacturing unit (MBF), ensuring a consistent supply of raw materials to the casting unit. Furthermore, the facility boasts ISO 14001:2015 certifications, backed by cutting-edge pollution control systems, making it environmentally sustainable.

# QUALITY INSPECTION



Chemical Analysis



Microstructure Analysis



Temperature Control



Thickness Control



Ring Test



Zinc Coating Mass



Hydraulic Testing Machine



Cement Lining Thickness



Bitumen Coating Thickness



Spigot Outer Diameter



Socket Inner Diameter



Tensile And Elongation



Hardness Testing

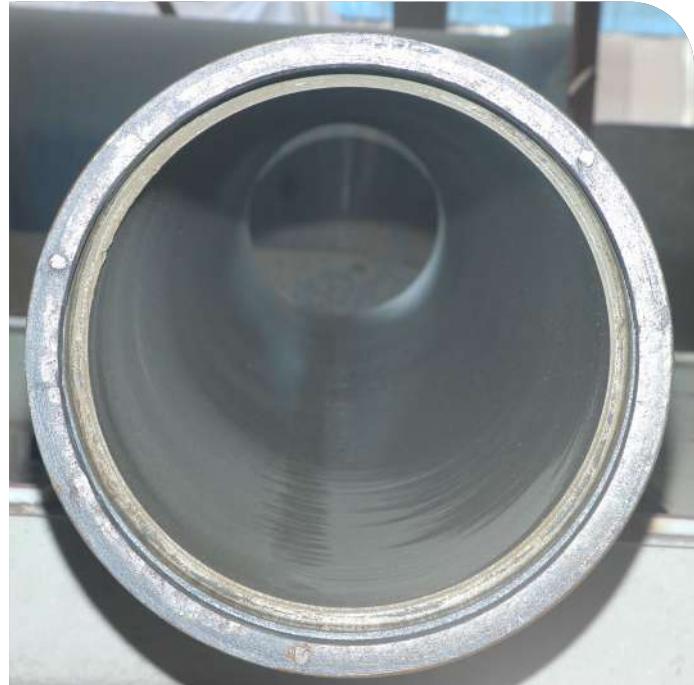
# LININGS & COATINGS

## Internal Linings

**Cement Mortar Lining:** Reinforces the internal surface and provides corrosion resistance.

**Bituminous Seal Coats:** Enhances the pipe resistance to moisture and environmental elements.

**Internal Polyurethane Coating:** Guards against abrasion, chemicals, and various operating conditions.



## External Coatings

**Zinc Coating:** Provides effective corrosion resistance, safeguarding the pipes from environmental factors.

**ZnAl Coating:** A robust barrier against corrosion and offers enhanced durability, even in challenging conditions.

**Bitumen Coating:** A protective layer that shields against moisture and external elements.

**Blue, Black and Red Epoxy Coatings:** Colour coatings aid in easy identification and differentiation of pipes.

**External Polyurethane Coating:** Offers protection against abrasion, chemicals, and various environmental stresses.

# PIPE STORAGE

## GENERAL RECOMMENDATIONS

- The storage area must be flat. The ground must not be marshy or unstable and it must not be corrosive material.
- The pipes must be stocked in the respective stakes according to diameter in accordance with a stock plan.
- It is always advisable to protect coating from the effects of weathering and prolonged exposure in the sun.
- Use shaped hooks covered with special protection of plastic material or, rubber, to avoid any damage to the internal coating of pipes. Wooden spacers (timber, wedges etc...) must be strong enough and of good quality.
- Precaution must be taken when the pipes have special coating.

Stacking of Loose Pipes	
Size (DN)	Stacking Height MAX. NO. OF LAYERS
DN 80	25
DN 100	22
DN 150	18
DN 200	13
DN 250	12
DN 300	10
DN 350	9
DN 400	9
DN 450	8
DN 500	8
DN 600	7
DN 700 - DN 750	5
DN 800 - DN 1000	4
DN 1100 - DN 1200	2



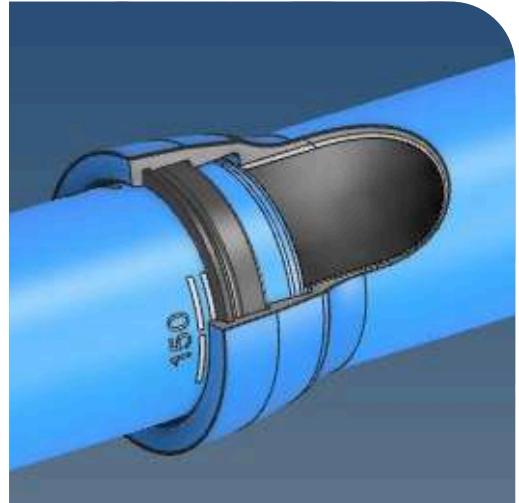
# PIPE JOINTS

**RASHMI pipes are available with the following types of joints:**

## **Flexible unrestrained socket and spigot joint**

RASHMI Type 1 unrestrained joints are furnished in sizes from DN80 to DN1200 and comprises a flexible, rubber gasket compression joint used extensively in buried applications for pressurised water services.

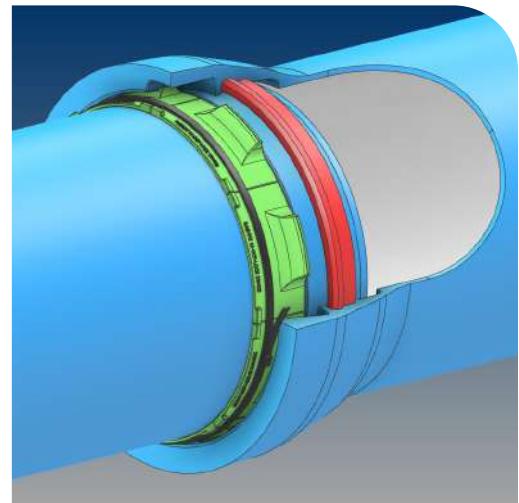
Each joint is capable of angular deflection wherein the degree of articulation varies between 3.3 degree at the smallest diameter to 1.5 degree at the largest.



## **Flexible restrained socket and spigot joint**

RASHMI Type 2 restrained joints are furnished in sizes from DN80 to DN1000 and comprises a flexible, rubber gasket compression joint which is axially restrained by mechanical means.

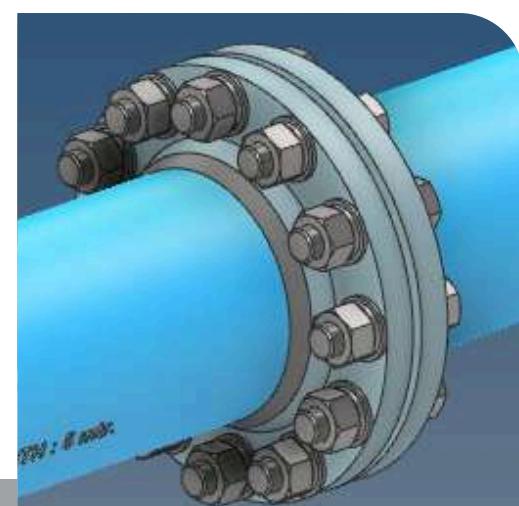
Each joint is capable of angular deflection wherein the degree of articulation varies between 5 deg at the smallest diameter to 2 deg at the largest.



## **Flange joint**

RASHMI Type 3 flanged joints are rigid systems and are furnished in sizes from DN80 to DN1200 with predominant use in above ground pipelines. Flange dimensional requirements comply with BS EN 1092-2.

Note: Restrained pipes currently available up to DN1000. Production facilities to be enhanced to DN1200 in near future



# WHY SELECT DUCTILE IRON PIPE

Attributes	uPVC Pipe	HDPE Pipe	DI Pipe	GI Pipe
Type of Pipe	Rigid	Flexible	Rigid	Rigid
Available Length	6m or 12m	6m or 12m rolls upto 15m	5.5m	6m
Tensile Strength	7,000 psi	3,500 psi	60,000 psi	40,000 psi
Pressure Rating	6, 8, 10, 12	2.55 to 16.3	upto 100 bars	Class-B: 30 at test and 20 at working: Class-C: 50 at test and 30 at working
Hydraulic Efficiency (Hazen's Roughness Coefficient)	145	145	140	100
Jointing process	Fast	Slower	Fast	Fast
Flexibility of joints	Limited	High	"Can take up to 5 degrees of deflection"	Can take up to 2.5 degree of deflection
Corrosion resistance	Corrosion resistant	Corrosion resistant	Corrosion resistant	Susceptible to corrosion in long run
Life (Years)	50 yrs	50 yrs	Upto 100 yrs	30 yrs
Damage during laying	Moderate	Moderate	Least	High
Storage Requirement	To be stored under covered space. Pipe becomes brittle if exposed to sun for long	Can be stored anywhere	Can be stored anywhere	Can be stored anywhere
Bedding Requirement	Sand bedding is required to avoid deflection of pipe	Excavated material can be refilled after removal of hard sharp edge material	Excavated material can be refilled after removal of hard sharp edge material	Excavated material can be refilled after removal of hard sharp edge material
Requirement of special equipment for laying and jointing	Not required	Requires sophisticated moulding equipment for butt fusion	Not required	Not required
Thermal Expansion	Yes	Yes	No	No

# QUALITY CERTIFICATES



## Kitemark™ Certificate



This is to certify that: Rashmi Metaliks Limited (DIP Division) Vill-Gopinathpur PO-Changual,Kharagpur, Paschim Medinipur West Bengal 721301 India

Holds Certificate Number: KM 793698

In respect of:

**BS ISO 2531**  
Ductile iron pipes, fittings, accessories and their joints for water applications

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI: Shahrukh, Group Product Certification Director

First Issued: 2023-09-28

Effective Date: 2023-09-28

Latest Issue: 2023-08-23

Expiry Date: 2026-08-23

Page: 1 of 2

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, United Kingdom and should be returned to BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, United Kingdom or certified by calling telephone +44 (0) 345 800 0050. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 388 Chalcots High Road, London NW1 4AL, UK. A member of BSI Group of Companies.



## Kitemark™ Certificate



This is to certify that: Rashmi Metaliks Limited (DIP Division) Vill-Gopinathpur PO-Changual,Kharagpur, Paschim Medinipur West Bengal 721301 India

Holds Certificate Number: KM 793698

In respect of:

**BS EN 545**  
Ductile iron pipes, fittings, accessories and their joints for water pipelines

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI: Shahrukh, Group Product Certification Director

First Issued: 2023-09-28

Effective Date: 2023-09-28

Latest Issue: 2023-08-28

Expiry Date: 2026-08-23

Page: 1 of 2

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, United Kingdom and should be returned to BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, United Kingdom or certified by calling telephone +44 (0) 345 800 0050. An electronic certificate can be authenticated [online](#).

BSI Assurance UK Limited, registered in England under number 7805321 at 388 Chalcots High Road, London NW1 4AL, UK. A member of BSI Group of Companies.



## CERTIFICATE OF ACCREDITATION

### RASHMI METALIKS LIMITED (DI PIPE DIVISION) QUALITY CONTROL LABORATORY

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

### "General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

**NH-06, VILL-GOKULPUR P.O. SHYAMRAJPUR, KHARAGPUR, MEDINIPUR WEST, WEST BENGAL, INDIA**

in the field of

**TESTING**

Certificate Number: TC-15394

Issue Date: 31/01/2025

Valid Until: 30/01/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To view the scope of accreditation of laboratory, you may also visit NABL website [www.nabl-india.org](#))

Name of Legal Entity: Rashmi Metaliks Limited

Signed for and on behalf of NABL



Anjali Anand  
Director

N. Venkateswaran  
Chief Executive Officer



## Certificate of Registration



ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that: Rashmi Metaliks Limited Premista Building, 6th Floor 39, Shakespeare Sarani Kolkata 700 017 West Bengal India

Holds Certificate No: **EMS 620622**

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

The Manufacture of Various Grades and Sizes of Ductile Iron Pipes for Different Application.

For and on behalf of BSI:

Theuns Kotze, Managing Director Assurance - IMETA

Original Registration Date: 2015-01-05

Effective Date: 2023-12-31

Latest Revision Date: 2023-11-27

Expiry Date: 2026-12-30

Page: 1 of 2

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](#).

Further clarifications regarding the scope of this certificate and the applicability of ISO 14001:2015 requirements may be obtained by consulting the organization. This certificate will only be valid if provided original copies are in complete.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, Tel: +44 345 800 0050.

BSI Assurance UK Limited, registered in England under number 7805321 at 388 Chalcots High Road, London NW1 4AL, UK. A member of the BSI Group of Companies.



## Certificate of Registration



OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM - ISO 45001:2018

This is to certify that: Rashmi Metaliks Limited Premista Building, 6th Floor 39, Shakespeare Sarani Kolkata 700 017 West Bengal India

Holds Certificate No: **OHS 620627**

and operates an Occupational Health and Safety Management System which complies with the requirements of ISO 45001:2018 for the following scope:

The Manufacture and supply of Various Grades and Sizes of Ductile Iron Pipes for Different Application.

[Previously certified to BS OHSAS 18001:2007 since 06-04-2015]

For and on behalf of BSI:

Theuns Kotze, Managing Director Assurance - IMETA

Original Registration Date: 2020-12-07

Effective Date: 2024-02-05

Latest Revision Date: 2024-02-05

Expiry Date: 2027-02-04

Page: 1 of 2

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](#).

Further clarifications regarding the scope of this certificate and the applicability of ISO 45001:2018 requirements may be obtained by consulting the organization. This certificate will only be valid if provided original copies are in complete.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, Tel: +44 345 800 0050.

BSI Assurance UK Limited, registered in England under number 7805321 at 388 Chalcots High Road, London NW1 4AL, UK. A member of the BSI Group of Companies.



## Certificate of Registration



QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that: Rashmi Metaliks Limited Premista Building, 6th Floor 39, Shakespeare Sarani Kolkata 700 017 West Bengal India

Holds Certificate No: **FM 578917**

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The Design & Development, Manufacture and Supply of Various Grades and Sizes of Ductile Iron Pipes for Different Applications.

For and on behalf of BSI:

Theuns Kotze, Managing Director Assurance - IMETA

Original Registration Date: 2011-09-07

Effective Date: 2026-08-23

Latest Revision Date: 2023-07-14

Expiry Date: 2026-08-23

Page: 1 of 2

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](#).

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization. This certificate will only be valid if provided original copies are in complete.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, Tel: +44 345 800 0050.

BSI Assurance UK Limited, registered in England under number 7805321 at 388 Chalcots High Road, London NW1 4AL, UK. A member of the BSI Group of Companies.

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.

An electronic certificate can be authenticated [online](#).

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization. This certificate will only be valid if provided original copies are in complete.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Kewstall, Milton Keynes MK5 8PN, Tel: +44 345 800 0050.

BSI Assurance UK Limited, registered in England under number 7805321 at 388 Chalcots High Road, London NW1 4AL, UK. A member of the BSI Group of Companies.



**BUREAU VERITAS**  
Certification

**Certificate of Conformity**  
Awarded to

**RASHMI METALIKS LIMITED**

HEAD OFFICE:  
Premtala Building, 39, Shakespeare Saran, Kolkata, West Bengal, PIN – 700017 INDIA  
PRODUCTION PLANT:  
Gokulpur, P.O. Shyampur, Kharagpur, West Medinipur, West Bengal – 721304 INDIA

Bureau Veritas Italia S.p.A. certify that the following products:  
**Ductile iron pipes for water and sewerage applications**  
from DN 80 to DN 1200 Push-On  
from DN 40 to DN 1000 Restrained Flexible Joint  
from DN 80 to DN 1000 Flanged Joint  
(welding flanged operation at Gokulpur, Meusa Changra plant)

**Commercial Brand**  
RASHMI AQUA, RASHMI SEWA

Designed and produced by Rashmi Metaliks Limited have been evaluated and found in conformity against the requirements of the following standard:  
**EN 545:2010**  
**ISO 2531:2009**  
**Ductile iron pipes, fittings, accessories and their joints for water application**  
**EN 690:2007+A1:2009**  
**ISO 7186:2011**  
**Ductile iron pipes, fittings, accessories and their joints for sewerage application**

Certification according requirements stated in:  
**QHSE-REG-02-TOR Bureau Veritas**  
**IND-REF-48-CP Bureau Veritas**

This certificate has not to be intended as related to Notified Body activity according to UE Construction Products Regulation CPR 305/2011 neither can be used for the CE marking

Original Emission Date: 20/04/2025  
Last Emission Date: 14/04/2025  
Expiration Date: 17/04/2028

Subject to the continued satisfactory operation, to check this certificate validity please refer to website: [www.bureauveritas.it](http://www.bureauveritas.it). Further clarifications regarding the scope of the certificate and the applicability of standard's requirements may be obtained by consulting the organization.

**Scheme Technical Manager**  
Date: 14/04/2025  
Certificate No: 978001 Rev.8

Bureau Veritas Italia S.p.A. – Viale Monza, 347 – 20126 MILAN – ITALY



**BUREAU VERITAS**  
Certification

**Certificate of Conformity**  
Awarded to

**RASHMI METALIKS LIMITED**

HEAD OFFICE:  
Premtala Building, 39, Shakespeare Saran, Kolkata, West Bengal, PIN – 700017 INDIA  
PRODUCTION PLANT:  
Gokulpur, P.O. Shyampur, Kharagpur, West Medinipur, West Bengal – 721304 INDIA

Bureau Veritas Italia S.p.A. certify that the following products:  
**Ductile iron pipes for water and sewerage applications**  
from DN 80 to DN 1200 Push-On  
from DN 40 to DN 1000 Restrained Flexible Joint  
from DN 80 to DN 1000 Flanged Joint  
(welding flanged operation at Gokulpur, Meusa Changra plant)

**Commercial Brand**  
RASHMI AQUA, RASHMI SEWA

Designed and produced by Rashmi Metaliks Limited have been evaluated and found in conformity against the requirements of the following standard:  
**EN 545:2006**  
**ISO 2531:1998**  
**Ductile iron pipes, fittings, accessories and their joints for water application**  
**EN 690:1994**  
**ISO 7186:1996**  
**Ductile iron pipes, fittings, accessories and their joints for sewerage application**

Certification according requirements stated in:  
**QHSE-REG-02-TOR Bureau Veritas**  
**IND-REF-48-CP Bureau Veritas**

This certificate has not to be intended as related to Notified Body activity according to UE Construction Products Regulation CPR 305/2011 neither can be used for the CE marking

Original Emission Date: 20/04/2025  
Last Emission Date: 14/04/2025  
Expiration Date: 17/04/2028

Subject to the continued satisfactory operation, to check this certificate validity please refer to website: [www.bureauveritas.it](http://www.bureauveritas.it). Further clarifications regarding the scope of the certificate and the applicability of standard's requirements may be obtained by consulting the organization.

**Scheme Technical Manager**  
Date: 14/04/2025  
Certificate No: 978002 Rev.8

Bureau Veritas Italia S.p.A. – Viale Monza, 347 – 20126 MILAN – ITALY



**BUREAU VERITAS**  
Certification

**Certificate of Conformity**  
Awarded to

**RASHMI METALIKS LIMITED**

HEAD OFFICE:  
Premtala Building, 39, Shakespeare Saran, Kolkata, West Bengal, PIN – 700017 INDIA  
PRODUCTION PLANT:  
Gokulpur, P.O. Shyampur, Kharagpur, West Medinipur, West Bengal – 721304 INDIA

Bureau Veritas Italia S.p.A. certify that the process of application of coatings for the following products:  
**Ductile iron pipes for water and sewerage applications**  
from DN 80 to DN 1200 Push-On  
from DN 40 to DN 1000 Restrained Flexible Joint  
from DN 80 to DN 1000 Flanged Joint  
(welding flanged operation at Gokulpur, Meusa Changra plant)

**Commercial Brand**  
RASHMI AQUA, RASHMI SEWA

Designed and produced by Rashmi Metaliks Limited have been evaluated and found in conformity against the requirements of the following standard:  
**QHSE-REG-02-TOR Bureau Veritas**  
**IND-REF-48-CP Bureau Veritas**

Certification according requirements stated in:  
**QHSE-REG-02-TOR Bureau Veritas**  
**IND-REF-48-CP Bureau Veritas**

Original Emission Date: 07/11/2017  
Last Emission Date: 14/04/2025  
Expiration Date: 17/04/2028

Subject to the continued satisfactory operation, to check this certificate validity please refer to website: [www.bureauveritas.it](http://www.bureauveritas.it). Further clarifications regarding the scope of this certificate and the applicability of standard's requirements may be obtained by consulting the organization.

**Scheme Technical Manager**  
Date: 14/04/2025  
Certificate No: 1053/001 Rev.7

Bureau Veritas Italia S.p.A. – Viale Monza, 347 – 20126 MILAN – ITALY



**WRAS**  
APPROVED MATERIAL

Water Regulations Approval Scheme Ltd.,  
Unit 13,  
Willow Road,  
Peny Fan Industrial Estate,  
Cwmbran,  
Gwent,  
NP11 4EG

Approval Number: 2109552  
Test Report: MA7254/E

28th October 2021  
Wangui Rubber Manufacturing Co. (P) Ltd  
Wangui, Utkal, India  
Post Office - Bokimuli  
Dist - Howrah  
West Bengal - 712223  
India

**WATER REGULATIONS APPROVAL SCHEME LTD. (WRAS)  
MATERIAL APPROVAL**

The material referred to in this letter is suitable for contact with drinking water for domestic purposes having met the requirements of EN86900-1:2000 and/or 2014. Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.

he reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**RUBBERS-ETHYLENE PROPYLENE DIENE MONOMER (EPDM) - MATERIAL ONLY,** 5365  
"S"EP-50, "S"EP-60, "S"EP-70 & "S"EP-80,  
8mm od, co-poured, compression moulded EPDM material(s) with a shore hardness of between 50A & 60A. Tested in 4x axis size of 15mm.

**APPROVAL NUMBER: 2109552**  
**APPROVAL HOLDER: WANGUI RUBBER MANUFACTURING CO. (P) LTD**

The Scheme reserves the right to review approval.  
Approval 2109552 is valid between September 2021 and September 2028

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials" which have passed full tests of effect on water quality".

The Directory may be found at: [www.wrassupplies.co.uk/approval-directory/](http://www.wrassupplies.co.uk/approval-directory/)

Yours faithfully

  
Ian Hughes  
WRAS Approved Manager



**WRAS**  
APPROVED MATERIAL

Water Regulations Advisory Scheme Ltd.,  
Unit 13,  
Willow Road,  
Peny Fan Industrial Estate,  
Cwmbran,  
Gwent,  
NP11 4EG

Approval Number: 2104522  
Test Report: MA7254/E

28th April 2021  
Rashmi Metaliks Ltd,  
Gokulpur,  
PO Shyampur,  
Kharagpur,  
Dist. West Medinipur,  
West Bengal  
721304  
India

**WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)  
MATERIAL APPROVAL**

The material referred to in this letter is suitable for contact with drinking water for domestic purposes having met the requirements of EN86900-1:2000 and/or 2014. Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.

he reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**COATINGS, PAINTS & LININGS FACTORY APPLIED PIPE & FITTINGS COATINGS,** 5030  
Parasail-Silicone Resisting Portland  
Cement,

Factory applied, grey coloured Silicate Resistant cement mortar.

Mix cement, sand and water in a 1:1.5:0.5 ratio. Cure for 28 days at 5°C.

For use with water up to 65°C.

This material is only approved for the mixing and curing conditions that appear on the approval. If the mixing and curing conditions are varied from those specified on the approval then the materials are not covered by the scope of the approval.

**APPROVAL NUMBER: 2104522**  
**APPROVAL HOLDER: RASHMI METALIKS LTD.**

The Scheme reserves the right to review approval.  
Approval 2104522 is valid between April 2021 and April 2026

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials" which have passed full tests of effect on water quality".

The Directory may be found at: [www.wrassupplies.co.uk/approval-directory/](http://www.wrassupplies.co.uk/approval-directory/)

Yours faithfully

  
Ian Hughes  
WRAS Approved Manager

# AMONG OUR SATISFIED CUSTOMERS

## INTERNATIONAL PRESENCE

SAUDI ARABIA	COLOMBIA
BAHRAIN	DOMINICAN REPUBLIC
UAE	ECUADOR
JORDAN	PERU
KUWAIT	NICARAGUA
LEBANON	PANAMA
SYRIA	PARAGUAY
GHANA	CANARY ISLAND
MAURITANIA	GEORGIA
SOUTH AFRICA	BHUTAN
TANZANIA	NEPAL
ALGERIA	SINGAPORE
ANGOLA	SRI LANKA
CHILE	VIETNAM

## TOP EPC CUSTOMERS / CONTRACTORS - INDIA

WPL LIMITED
MEGHA ENGINEERING & INFRASTRUCTURES LIMITED
LARSEN & TOUBRO LIMITED
KRISHNA CONSTRUCTION COMPANY
JMC PROJECTS (INDIA) LIMITED
VISHNU PRAKASH R PUNGLIA LIMITED
RAJGRIHI SINGH CONSTRUCTIONS PRIVATE LIMITED
SRI SCL INFRATECH LIMITED
KEC INTERNATIONAL LTD
ZUBERI ENGINEERING CONSTRUCTION PVT LTD
ZETWERK MANUFACTURING BUSINESS PVT LTD

## INDIAN STATE

## NAME OF AUTHORITY

State of Jammu & Kashmir (India)	<ul style="list-style-type: none"> <li>• PHED, Jammu</li> <li>• PHED, Srinagar</li> </ul>
State of Himachal Pradesh (India)	<ul style="list-style-type: none"> <li>• Irrigation &amp; Flood Control Department (Through Contractors)</li> </ul>
State of Punjab (India)	<ul style="list-style-type: none"> <li>• Punjab Water Supply &amp; Sewerage Board (Through Contractors)</li> </ul>
State of Delhi (India)	<ul style="list-style-type: none"> <li>• Delhi Jal Board (Through Contractor)</li> <li>• New Delhi Municipal Corporation (Through Contractor)</li> <li>• Delhi Development Authority (Through Contractor)</li> <li>• Director of Supplies &amp; Disposals, Haryana</li> </ul>
State of Haryana (India)	<ul style="list-style-type: none"> <li>• Haryana State Industrial &amp; Infrastructure Development Corporation Ltd., Haryana</li> <li>• PHED, Haryana</li> <li>• Haryana Urban Development Authority</li> <li>• Haryana State Roads And Bridges Development Corporation Ltd.</li> </ul>
State of Uttar Pradesh (India)	<ul style="list-style-type: none"> <li>• Uttar Pradesh Jal Nigam</li> </ul>
State of Rajasthan (India)	<ul style="list-style-type: none"> <li>• PHED, Rajasthan</li> <li>• RICO (Through Contractors)</li> <li>• Jaipur Development Authority (Through Contractors)</li> <li>• Urban Improvement Trust (Through Contractors)</li> </ul>
State of Madhya Pradesh (India)	<ul style="list-style-type: none"> <li>• Madhya Pradesh Laghu Udyog Nigam Limited, Bhopal</li> <li>• Bhopal Municipal Corporation (Through Contractors)</li> <li>• Gwalior Municipal Corporation (Through Contractors)</li> <li>• PHED Dept., Madhya Pradesh (Through Contractors)</li> </ul>
State of Gujarat (India)	<ul style="list-style-type: none"> <li>• Ahmedabad Municipal Corporation</li> <li>• Surat Municipal Corporation (Bid under evaluation)</li> <li>• Gujarat Water Supply &amp; Sewerage Board (Through Contractors)</li> </ul>
State of Maharashtra (India)	<ul style="list-style-type: none"> <li>• Mumbai Municipal Corporation (Through Contractor)</li> <li>• Maharashtra Jivan Pradhikaran</li> <li>• Pune Municipal Corporation (Through Contractor)</li> <li>• Nagar Palika Nigam, Mumbai (Through Contractor)</li> <li>• Pimpri Chinchwad Municipal Corporation (Through Contractor)</li> <li>• Indapur Municipal Council (Through Contractor)</li> <li>• Dahanu Municipal Council (Through Contractor)</li> <li>• Hingoli Municipal Corporation (Through Contractor)</li> </ul>
State of Jharkhand (India)	<ul style="list-style-type: none"> <li>• Drinking Water Supply &amp; Sanitation Department, Jharkhand (Through Contractors)</li> <li>• Bihar Urban Infrastructure Development Corporation (Through Contractors)</li> </ul>
State of Bihar (India)	<ul style="list-style-type: none"> <li>• PHED, Bihar (Through Contractors)</li> </ul>
State of Chhattisgarh (India)	<ul style="list-style-type: none"> <li>• PHED, Chhattisgarh (Through Contractors)</li> <li>• Raipur Municipal Corporation (Through Contractors)</li> <li>• Rajnandgaon Municipal Corporation (Through Contractors)</li> <li>• Ambikapur Municipal Council (Through Contractors)</li> </ul>
State of Odisha (India)	<ul style="list-style-type: none"> <li>• PHE, Odisha</li> <li>• Rural Water Supply &amp; Sewerage Division, Govt. of Odisha (Through Contractors)</li> </ul>
State of West Bengal (India)	<ul style="list-style-type: none"> <li>• Kolkata Metropolitan Development Authority</li> <li>• Kolkata Municipal Corporation</li> <li>• Purulia Municipality</li> <li>• Raghunathpur Municipality</li> <li>• Haldia Port Trust</li> <li>• IIT Kharagpur</li> <li>• Suri Municipality</li> <li>• North Barrackpore Municipality</li> <li>• Basishat Municipality</li> <li>• South Dum Dum Municipality</li> <li>• Egra Municipality</li> <li>• Dankuni Municipality</li> <li>• Barrackpore Municipality</li> <li>• Balurghat Municipality</li> <li>• Hooghly-Chinsurah Municipality</li> </ul>
State of Andhra Pradesh (India)	<ul style="list-style-type: none"> <li>• Hyderabad Metropolitan Water Supply &amp; Sewerage Board, Hyderabad</li> <li>• Rural Water Supply &amp; Sanitation Dept., Govt. of A.P. (Through Contractor)</li> <li>• Panchayet Raj Health Engineering Department, Govt. of A.P. (Through Contractor)</li> </ul>
State of Karnataka (India)	<ul style="list-style-type: none"> <li>• Karnataka Urban Water Supply &amp; Drainage Board, Karnataka (Through Contractor)</li> <li>• Karnataka Rural Water Supply &amp; Sanitation Department, Karnataka (Through Contractor)</li> </ul>
State of Tamilnadu (India)	<ul style="list-style-type: none"> <li>• Tamilnadu Water Supply &amp; Drainage Board (Through Contractor)</li> </ul>
State of Kerala (India)	<ul style="list-style-type: none"> <li>• Chennai Metropolitan Water Supply &amp; Sewerage Board</li> <li>• Kerala Water Authority (Through Contractor)</li> </ul>





## CONTACT US

**REGD. & CORPORATE OFFICE:** Premlata Building, 39, Shakespeare Sarani, 6th Floor, Kolkata - 700 017

**HEAD OFFICE:** 9, A.J.C. Bose Road, Ideal Centre, 1st Floor, Kolkata - 700 017

**TEL.:** (033) 22894255/56, **FAX:** 2289-4254

**FACTORY:** Gokulpur, P. O.: Shyamraipur, **Dist.:** West Midnapur (W. B.), INDIA. **TEL.:** (03222) 234533

**For Domestic Inquiries:** [info@rashmigroup.com](mailto:info@rashmigroup.com), [salesgovt@rashmigroup.com](mailto:salesgovt@rashmigroup.com)

**For Export Enquiries:** [exportsales@rashmigroup.com](mailto:exportsales@rashmigroup.com)

**Website:** [www.rashmimetaliks.com](http://www.rashmimetaliks.com). **CIN No.:** U27109WB2004PLC097737

## INTERNATIONAL SALES OFFICES

**United Arab Emirates**

**RASHMI PIPE & FITTING FZCO**

2405, Mazaya Business Avenue  
BB2, Jumeirah Lakes Towers,  
Dubai, UAE

**United Kingdom**

**RASHMI METALIKS UK LTD.**

3rd Floor, 5 Lloyd's Avenue,  
EC3N 3AE London, UK

**Singapore**

**RASHMI AQUA PTE LTD.**

137 Telok Ayer Street, #05-02  
Singapore (068602)