

The Application

JPC pipes are designed for electrical piping systems used for protection and routing of electrical wiring. JPC pipes can be used under all atmospheric conditions for all occupancies for concealed exposed wiring, in Thermal and Gas Plant, for high volume installation, for buried underground and for wet saline tracks. It is also use in hotels, hospitals, commercial buildings, airports, shopping malls, thermal power plants etc.



JPC PIPES PVT. LTD.



JPC PIPES PRIVATE LIMITED

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CML-2672362



CML-

- GALVANIZED CONDUITS
- STEEL CONDUITS & ACCESSORIES
- PVC CONDUITS



Embossed after every metre

An ISO Certified Company

ACCESSORIES



Product Description

ISI Marked Black stove enamelled steel conduit pipes and Galvanized steel conduit pipes are manufactured as per following IS:9537[Part II]1981 dimensions.

Nominal Size of Conduit (mm)	Outer Diameter (mm)	Tolerance in Outer Diameter (mm)	Wall Thickness of Conduit Pipes (mm)
20	20	-0.3	1.4 to 1.8
25	25	-0.4	1.4 to 1.8
32	32	-0.4	1.4 to 1.8
40	40	-0.4	1.6 to 2.2
50	50	-0.5	1.6 to 2.2



Testing illustration

At JPC, the quality control engineer and his team, inspect and test the raw materials, goods in process and the finished goods on daily basis. The following tests are conducted.

NAME OF THE TEST	METHODOLOGY & REASONING	
Inspection of surfaces & Edges	Visual Examination (By Normal or Corrected Vision without Magnification).	
Inspection of Marking	Brand name, Nominal Size & Country of Origin on each length.	
Dimensional Check	For maximum OD by GO Gauge & Minimum OD by NO GO Gauge to maintain standard size.	
Wall Thickness Measurements	Measured with the help of vernier callipers as specified in BIS standard (Accuracy equal to or more than 0.02 mm).	
Compression testing Machine	By compressing the samples on compression test apparatus & calculating the percentage compression as maintained in BIS 9537 part I & II. To assure the mechanical strength of conduits.	
Bend Test and Ball Test	By Bending the sample on Bend Test Apparatus & Testing the samples for deformity & cracking of protective coating of original material. To check the ease of flow of the wire within the pipe	
Screw Thread Test	Length of the thread is Measured by vernier & Profile of Thread by GO & NO GO Gauge This ensures smooth jointing of pipes with each other.	
External Influence (Protective Coating)	With the help of Chemical as prescribed in BIS:9537 Specifications Medium and High Protective Coating of Rigid Steel Conduits are tested for adequate protection against external influences.	
Durability of Marking	By Rubbing Process	

About The Company

We are pleased to introduce our self as a premium quality manufacturer of "ISI" marked Black and Galvanized Steel Conduit pipes (20 MM~50 MM) IS 9537(PART II)1981& IS 9537 (part III)We have very great working experience with reputed and leading company like NTPC, BHEL, NBCC, DMRC,NPCIL,CHENNAI METRO RITES,SIEMENS, L&T, VOLTAS, CARRIER RACE, MEPL, UPRRN, DELHI PWD CPWD, LUCKNOW PWD, CPWD, BHOPAL PWD, CPWD AND MANY MORE CONSULTANTS & CONTRACTORS.

Team representing "JPC PIPES PRIVATE LIMITED" has glorious background of success in the field of Steel Conduits, forefront led by EX-Service man Shri Jai Bhagwan Tanwar & Managing Director Mr. Vikas Tanwar Mechanical engineer itself.

Reasons for using "JPC" Products

- Competitive life –Cycle costs.
- Good quality raw material ensures a finish conduit with superior bending and forming properties.
- Cold forming method and high frequency welding provides smooth exterior and interior finish which makes easier wire pulling/pushing.
- Dimensional accuracy and uniform quality at all aspect.
- High tensile strength.
- EMI shielding.
- Reliability, Recyclability & many more..

Manufacturing Process

One of the worlds's most sophisticated and efficient method of tube welding process called ERW (Electric Resistance Welding) is used to manufacture conduits pipes.

Mild Steel coils/strips are used as raw material fed to rolling mill wherein at very initial stage trademark of "JPC" is embossed and it repeats per meter length. The consecutive squeezing rolls draws the strip into pipe thereafter automatic high frequency induction welder having Servo Control does a smooth and uniform welding. Followed by these operations cooling, sizing, cutting into required length is done by automatic process. End facing machine removes the burr from pipes providing smooth finish at the edges thereafter threading is done by one of the best threading machines in its segment and coupler is attached at one end. The one end socketted pipe is dipped in stove enameled black paint or any other colour as per customer's requirements. Finally the painted pipes are labeled with stickers mentioning the "JPC" Trademark, Outer diameter size of conduit pipe, ISI mark with CML no. The pipes then wrapped with plastic bag and packed with hessian cloth after which marking is done on each bundle with the help of stencils.

However, Galvanizing for conduits is done by the Hot Dip Galvanizing process. The process starts with surface preparation likes degreasing (by hot alkali solution which removes dirt) , pickling (by dilute solution of sulphuric acid which removes rust) & fluxing (immersing in zinc ammonium chloride solution), then dipping in molten zinc solution having temp of approx. 840°F (449°C) called galvanizing, and goes through final inspections. During galvanizing zinc metallurgically bonds to the steel creating highly abrasion resistant zinc-iron alloy layers. The pipes withdrawn from galvanizing bath, excess zinc is removed by draining or vibrating.

Coating/ thickness and surface condition inspections complete the process. After the galvanizing process, the galvanized tubes are sent for threading followed by labeling, packing and marking.

Since, Quality of conduits comes under priority focus at "JPC" each and every lot of pipes undergoes various test right from the inspection of raw material to the inspection of final product.



JPC Pipes Conduit PVC Pipes & Fittings are manufactured from a specially formulated unplasticised polyvinyl chloride (UPVC) to meet the most stringent Indian and International standards. Our products are made of Extra Super High Impact materials which make them safe to use in harsh environments. The products are manufactured in accordance with IS: 9537 Part 3, BS: EN 61386 – 21 for UPVC conduits, IS: 3419 and BS: 4607 for UPVC fittings.

Applications

Channelling concealed & Surface wiring. Telecommunication & Cable ducting.

Features

• Various diameters & grades • Light, medium & heavy mechanical stress, to suit various applications & site conditions • Easy & fast installation • Wide range of component maximises application • Durable & impact resistant • Fire retardant • Corrosion free • Thermal resistant from -5°C to +60°C. Precision circular boxes & adaptable boxes are provided with M4 brass insert with a load suspension capacity of 3 Kgs at 60°C.

Colour

Black, Grey, Ivory & White. Other colours are available on a made-to-order basis.

Dimensions of Round Conduit PVC Pipes IS : 9537 Part 3

Nominal Size mm	Outside Diameter mm	Tolerance on Outside Diameter mm	Inside Diameter (Min) mm		
			Light	Medium	Heavy
16	16	-0.3	13.7	13.0	12.2
19*	19	-0.3	16.5	16.0	15.1
20	20	-0.3	17.4	16.9	15.8
25	25	-0.4	22.1	21.4	20.6
32	32	-0.4	28.6	27.8	26.6
40	40	-0.4	35.8	35.4	34.4
50	50	-0.5	45.1	44.3	43.2
63	63	-0.6	57.0	-	-



APPROVALS

Approval form for NTPC Limited, featuring the NTPC logo and a table with columns for Item No., Material, Approved Material / Brand, and Remarks.

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Approval form for AFCONS, featuring the AFCONS logo and a table with columns for Item No., Material, Approved Material / Brand, and Remarks.

Approval form for CPFL India, featuring the CPFL logo and a table with columns for Item No., Material, Approved Material / Brand, and Remarks.

Approval form for CPFL India, featuring the CPFL logo and a table with columns for Item No., Material, Approved Material / Brand, and Remarks.

Approval form for Jharkhand State Power Corporation, featuring the logo and a table with columns for Item No., Material, Approved Material / Brand, and Remarks.

Approval form for CPFL India, featuring the CPFL logo and a table with columns for Item No., Material, Approved Material / Brand, and Remarks.

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OUR CLIENTS

A collection of logos for various clients, including NTPC, Siemens, NBCC, CPWD, Delhi Metro, Mitsubishi Hitachi, BGR Energy, Sterling & Wilson, NPCC, NPCIL, MES, Jindal Steel & Power, Essar, BSNL, Blue Star, and Carrier.