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# मानक

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IS 5219-1 (1969): cast copper alloys traps: Part 1 'P' and 'S' traps [CED 3: Sanitary Appliances and Water Fittings]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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IS : 5219 ( Part I ) - 1969

Reaffirmed 2010

*Indian Standard*

SPECIFICATION FOR  
CAST COPPER ALLOYS TRAPS

PART I P' AND 'S' TRAPS

( Second Reprint MARCH 1990 )

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BUREAU OF INDIAN STANDARDS  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

Gr 4

*December 1969*

# Indian Standard

## SPECIFICATION FOR CAST COPPER ALLOYS TRAPS

### PART I 'P' AND 'S' TRAPS

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( Continued on page 2 )

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## IS : 5219 ( Part I ) - 1969

( Continued from page 1 )

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AMENDMENT NO. 1    SEPTEMBER 1984  
TO  
IS:5219(Part 1)-1969 SPECIFICATION FOR CAST COPPER  
ALLOYS TRAPS  
PART 1   'P' AND 'S' TRAPS

Alteration

[Page 9, Table 4, col (3), last line] - Substitute  
'50' for '75'.

(BDC 3)

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Reprography Unit, BIS, New Delhi, India

*Indian Standard*  
**SPECIFICATION FOR  
CAST COPPER ALLOYS TRAPS**

**PART I 'P' AND 'S' TRAPS**

**0. FOREWORD**

**0.1** This Indian Standard ( Part I ) was adopted by the Indian Standards Institution on 13 August 1969, after the draft finalized by the Sanitary Appliances and Water Fittings Sectional Committee had been approved by the Civil Engineering Division Council.

**0.2** This standard ( Part I ) covers the requirements for ' P ' and ' S ' traps made of copper alloys and their associate component parts for use with waste appliances, such as wash basins, sinks and bath tubs. The second part of the standard, under preparation, will cover the requirements for bottle traps made of cast copper alloys.

**0.3** While preparing this standard the Sectional Committee was aware of the acute scarcity of non-ferrous metals like copper, tin and nickel in the country and the need for conserving the use of the same. However, noting the present manufacturing practice in the country only cast copper alloy traps have been covered in the standard and work is in progress covering the use of other materials available from indigenous sources, such as, plastics and ferrous metals; further, only brass castings with reduced copper contents have been specified in this standard.

**0.4** It is a general practice to provide internal threads on the inlet of traps; and to facilitate connections with waste bodies, use of inlet tail pipe and coupling nut has been specified. External threads are provided on the outlet in case of screwed outlet traps for connections to waste pipes.

**0.5** Straight inlet tail pipes are specified to be threaded with metric screw threads conforming to the basic profile of ISO metric screw threads. Sizes  $M33 \times 1$ ,  $M42 \times 1$  and  $M52 \times 1$  are specified for nominal sizes 32 mm, 40 mm and 50 mm although pitch one is not very common with diameters 33, 42 and 52 but it is essential to have finer threads on the tail pipes and inlet of traps and next higher pitch of 1.5 mm is not good enough for the purpose [ see IS : 4218 ( Part I ) - 1967 to IS : 4218 ( Part VI ) - 1967\* ].

\*ISO Metric screw threads:

Part I Basic and design profiles.

Part II Pitch diameter combinations.

Part III Basic dimensions for design profiles.

Part IV Tolerancing system.

Part V Tolerances.

Part VI Limits of sizes for commercial bolts and nuts ( diameter range 1 to 39 mm )



## **IS : 5219 ( Part I ) - 1969**

**0.6** The information to be supplied by the purchaser with enquiry of order for traps, is given in Appendix A.

**0.7** In the formulation of this standard due weightage has been given to international co-ordination among the standards and practices prevailing in different countries in addition to relating it to the practices in the field in this country. This has been met by deriving assistance from B.S.1184-1961 ' Specification for copper and copper alloy traps and wastes '.

**0.8** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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### **1. SCOPE**

**1.1** This standard ( Part I ) covers copper alloy cast traps ' P ' and ' S ' types and their associated components of nominal sizes 32 mm, 40 mm and 50 mm for use in wash basins, sinks, bath tubs and similar waste appliances.

### **2. TERMINOLOGY**

**2.0** For the purpose of this standard, the following definitions shall apply.

**2.1 Trap** — A tabular device to prevent the passage of foul gases by means of a water seal from a waste pipe into a building.

**2.2 ' P ' Trap** — A trap in which when the inlet leg is vertical, the outlet leg is inclined below the horizontal within the limits specified in this standard.

**2.3 ' S ' Trap** — A trap in which the outlet leg is parallel with the inlet leg.

**2.4 Water Seal** — The depth of water which shall be removed from a fully charged trap before gases at atmospheric pressure may pass from the waste pipe through the trap into a building.

**2.5 Associated Components** — These shall mean the tailpipes, coupling nuts, blank nuts, clean out plugs, removable caps and washers.

### **3. NOMINAL SIZES**

**3.1** The trap shall be manufactured in the following nominal sizes:

32 mm, 40 mm and 50 mm.

### **4. MATERIALS**

**4.1 Castings** — The castings shall be of brass with copper content not less than 56 percent.

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\*Rules for rounding off numerical values ( revised ).

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4.1.1 A typical example of a suitable material is brass conforming to Grade 3 of IS: 292-1961\*.

NOTE — Castings made from the brass scrap materials may be used provided the copper content is not less than the value given in 4.2.

4.2 Pressings — Pressings where used for associated components shall be of forgeable brass with the following composition:

	<i>Min</i>	<i>Max</i>
Copper	56.5	60.0
Lead	1.0	2.5
Zinc — Remainder		

NOTE — Total impurities not more than 0.75 percent.

4.3 The washers where supplied shall be of compressed fibre conforming to Grade C of IS: 2712-1965† or equally suitable rubber material.

## 5. WORKMANSHIP AND FINISH

5.1 Casting shall be sound in all respects, free from blow holes, laps and sand pittings. Both the external and internal surface shall be clean, smooth and free from sand. No casting shall be plugged, stopped or patched.

5.2 The external surface of traps and associated components shall have one of the following finishes:

- a) Self-colour, free from grease and tool marks;
- b) Polished; and
- c) Nickel or chromium plated.

## 6. DESIGN AND CONSTRUCTION

6.1 Typical illustrations of traps are shown in Tables 1 to 8.

NOTE — The figures are intended to show main features of the parts only and are not intended to limit the design and shapes of component parts.

6.2 Inlet — Inlet of every trap shall have internal threads conforming to the basic profile of ISO metric screw threads (IS: 1362-1962‡) and shall be provided with a tail pipe and a coupling nut. The tail pipe shall be screwed on to the inlet with a minimum engagement of 8 mm and secured in position by soldering.

\*Specification for brass ingots and castings ( revised ).

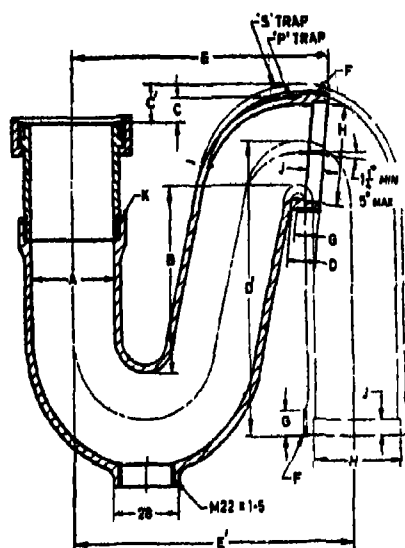
†Specification for compressed asbestos fibre jointing.

‡Dimensions for screw threads for general purposes ( diameter range 1.6 to 39 mm ) ( revised ).

TABLE 1 DIMENSIONS OF 'P' AND 'S' TRAPS WITH EXTERNALLY SCREWED OUTLET

(Clauses 6.1, 6.3, 6.7 and 7.1)

All dimensions in millimetres.



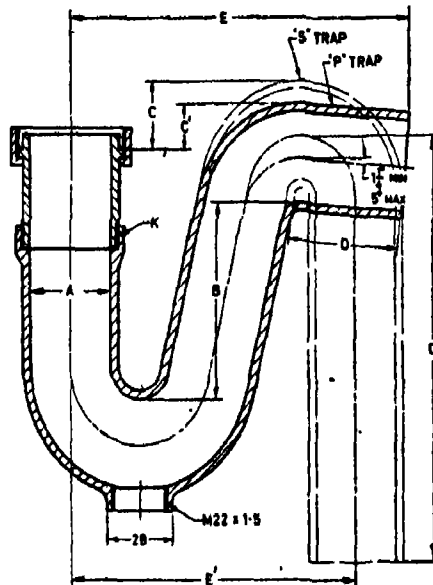
PARTICULARS		DIMENSIONS FOR NOMINAL SIZE					
		32	32	40	40	50	50
Internal diameter	A	30	30	38	38	48	48
Water seal, Min	B	35	75	35	75	35	75
Height over collar, Max	C	15	20	15	15	15	15
	C'	22	27	22	22	22	22
Length of outlet with externally screwed end, Min	D	22	22	22	22	22	22
	D'	105	150	115	150	130	165
Centre of inlet to outlet	E	100	100	110	110	130	130
	E'	95 ± 1.5	95 ± 1.5	110 ± 1.5	110 ± 1.5	130 ± 1.5	130 ± 1.5
Thread on outlet (parallel pipe thread fastening IS : 2643 - 1964*)	F	FP 1½	FP 1½	FP 1½	FP 1½	FP 2½	FP 2½
Length of external thread on outlet, Min	G	10	10	10	10	10	10
Diameter of recess in outlet, Min	H	35.50	35.50	41.40	41.40	51.90	51.90
Length of recess in outlet	J	6	6	6	6	6	6
Internal thread on inlet	K	M33 × 1	M33 × 1	M42 × 1	M42 × 1	M52 × 1	M52 × 1

\*Dimensions for pipe threads for fastening purposes.

TABLE 2 DIMENSIONS OF 'P' AND 'S' TRAPS WITH PLAIN OUTLET

( Clauses 6.1, 6.3, 6.7 and 7.1 )

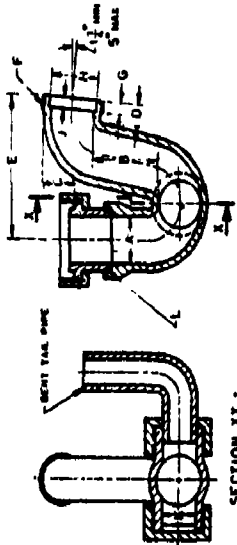
All dimensions in millimetres.



PARTICULARS		DIMENSIONS FOR NOMINAL SIZE					
		32	32	40	40	50	50
Internal diameter	A	30	30	38	38	48	48
Water seal, Min	B	35	75	35	75	35	75
Height over collar, Max	{ C	45	20	15	15	15	15
	{ C'	22	27	22	22	22	22
Length of plain end outlet, Min	{ D	50	55	55	55	60	60
	{ D'	120	165	125	165	140	175
Centre of inlet to outlet	{ E	130	130	145	145	170	170
	{ E'	95 ± 1.5	95 ± 1.5	110 ± 1.5	110 ± 1.5	130 ± 1.5	130 ± 1.5
Internal thread on inlet	K	M33 × 1	M33 × 1	M42 × 1	M42 × 1	M52 × 1	M52 × 1

TABLE 3 DIMENSIONS OF BATH 'P' TRAPS WITH EXTERNALLY SCREWED OUTLET AND OVERFLOW CONNECTIONS  
(Clauses 6.1, 6.8, 6.8.1 and 7.1)

All dimensions in millimetres.



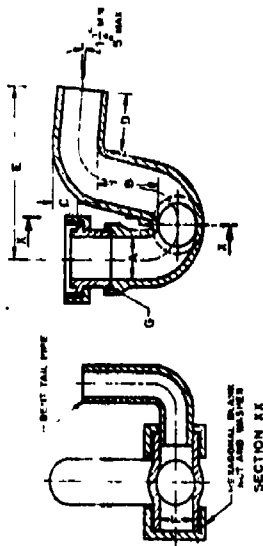
NO.- NAL SIZE	INTER- NAL DIA, Min	WATER SEAL, Min	HEIGHT OVER COLLAR, Max	LENGTH OF OUTLET WITH EXTER- NALLY SCREWED END, Min	LENGTH OF CENTRE OF INLET TO OUTLET	THREAD ON OUTLET (PARA- LLEL PIPE THREADS FASTENING IS: 2643- 1964*)	LENGTH OF EXTERNAL THREADS ON OUTLET, Min	DIAMETER OF RECES IN OUTLET, Min	DIAMETER LENGTH OF RECES IN OUTLET	INTERNAL BORE DIA IN THE CLEANING AND OVERFLOW CONNEC- TIONS, Min	INTERNAL THREADS ON INLET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
40	38	35	28	22	110	FP 1½	10	41-40	6	25-0	M42 x 1
40	38	75	28	22	110	FP 1½	10	41-40	6	25-0	M42 x 1

\*Dimensions of pipe threads for fastening purpose.

TABLE 4 DIMENSIONS OF BATH 'P' TRAPS WITH PLAIN OUTLET AND OVERFLOW CONNECTIONS

( Clauses 6.1, 6.3, 6.8.1 and 7.1 )

All dimensions in millimetres

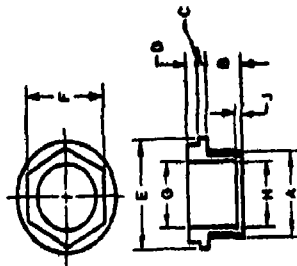


NOMINAL SIZE	INTERNAL DIAMETER, A Min	WATER SEAL, B Min	HEIGHT OVER COLLAR, C Max	LENGTH OF OUTLET WITH PLAIN END, D Min	CENTRE OF INLET TO OUTLET, E	INTERNAL BORE DIAMETER IN THE CLEANING AND OVERFLOW CONNECTIONS, F	INTERNAL THREADS ON INLET, G
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
40	38	35	28	50	140	25.0	M42 x 1
40	38	75	28	50	140	25.0	M42 x 1

TABLE 5 DIMENSIONS OF CLEANOUT PLUG

(Clauses 6.1, 6.7 and 7.1)

All dimensions in millimetres.

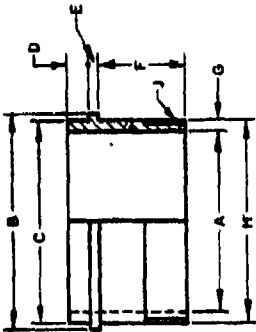


A	B	C	D	E	F	G	H	J
M22x1.5	8 ± 5	2	3	28	21	17	16	2

TABLE 6 DIMENSIONS OF STRAIGHT TAIL PIPES

( Clauses 6.1, 6.4 and 7.1 )

All dimensions in millimetres.



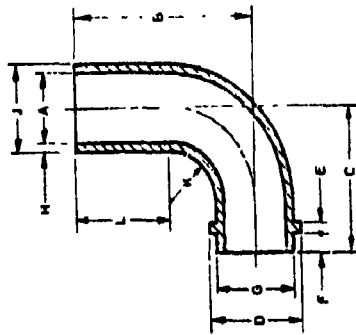
NOMINAL SIZE	BORE, <i>Min</i>	DIAMETER OF COLLAR		DIAMETER OF SPIGOT, <i>Max</i>	AXIAL LENGTH OF SPIGOT	AXIAL LENGTH OF COLLAR, <i>Min</i>	LENGTH OF WALL, <i>Min</i>	THICKNESS OF WALL, <i>Min</i>	DIAMETER OF TAIL, <i>Max</i>	THREADS ON TAIL
		<i>Min</i>	<i>Max</i>							
	A	B		C	D	E	F	G	H	J
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
32	29	37.9	38.6	35.3	6	3	25	1.0	23	M33 × 1
40	37	44.0	44.5	41.1	6	3	25	1.4	42	M42 × 1
50	47	55.6	56.3	51.6	6	3	25	1.4	52	M52 × 1



TABLE 7 DIMENSIONS OF BENT TAIL PIPES FOR OVERFLOW CONNECTIONS

( Clauses 6.1, 6.4 and 7.1 )

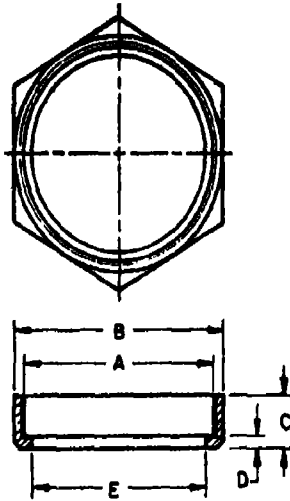
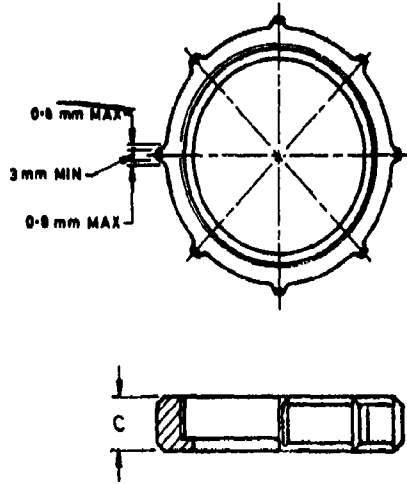
All dimensions in millimetres



BORE ( MIL )	LENGTH OF TAIL TO CENTRE LINE OF OUTLET	CENTRE LINE OF INLET TO OUTLET	DIAMETER OF COLLAR	AXIAL LENGTH OF COLLAR, Min	AXIAL LENGTH OF SPIGOT, Min	DIAMETER OF SPIGOT, Max	THICKNESS OF WALL, Min	DIAMETER OF TAIL, Max	ROOF RADIUS OF BEND, Min	MINIMUM STRAIGHT LENGTH OF TAIL
A	B	C	D	E	F	G	H	J	K	L
	(2)	(3)	(4) (5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
20	64	42	29 30	3	6 ± 0.5	24.7	2	25	14	20

**TABLE 8 DIMENSIONS OF COUPLING NUT AND BLANK NUT**( *Classes 6.1, 6.5, 6.6 and 7.1* )

All dimensions in millimetres.

**COUPLING NUT****BLANK NUT**

NOMINAL SIZE	INTERNAL THREAD ( PARALLEL PIPE THREADS- FASTENING IS : 2643-1964* )	SIZE ACROSS FLATS OF HEXAGONAL PATTERN†, Min	AXIAL LENGTH, Min	THICKNESS OF FLANGE, Min	DIAMETER OF HOLE IN FLANGE, Min
	A	B	C	D	E
(1)	(2)	(3)	(4)	(5)	(6)
25	FP 1	35	14	3	35.75
32	FP 1½	45	14	3	33.2
40	FP 1½	51	14	3	42.2
50	FP 2	63	14	3	52.3

\*Dimensions for pipe threads for fastening purposes.

†Minimum outside diameter of nut in case of ribbed pattern.

## **IS : 5219 ( Part I ) - 1969**

**6.3 Outlet** — The outlet of ' P ' and ' S ' trap shall be either with plain ends suitable for connection to lead pipe or with external parallel pipe threads of fastening type conforming to IS : 2643-1964\* ( see Tables 1 and 2 ).

**6.4 Tail Pipes** — Tail pipes shall be of any of the following types:

- a) *Screwed Inlet Straight Tail Pipes* — shall conform to Table 6 and shall be threaded externally to a length sufficient to have a minimum engagement of 8 mm into trap inlet. Collar shall be integral with the tail pipe.
- b) *Bent Tail Pipe* — When used for bath trap, overflow connections shall conform to Table 7 and shall have an integral collar. It may also be used for converting a ' P ' trap to an ' S ' trap.

**6.5 Coupling Nuts** — The dimensions of coupling nuts for tail pipes shall conform to Table 8.

**6.6 Blank Nuts** — Blank nuts for bath traps shall be of 25 mm nominal size conforming to Table 8 except that the flange shall be without hole.

**6.7 Access for Inspection and Cleaning** — Every trap of the type shown in Tables 1 and 2 shall be provided with a clean out in the position shown in the figures and shall be fitted with the clean out plugs ( see Table 5 ).

**6.8 Lower Flow Openings** — Bath traps shall be provided with branches in positions shown in Tables 3 and 4 and shall be screwed externally with 25 mm ( P-1 ) parallel pipe threads conforming to IS : 2643-1964\* with a minimum thread length of 10 mm.

**6.8.1** One branch shall be fitted with a blank cap, complete with washer and other branch shall at the option of the purchaser be fitted either with a bent tail pipe and coupling nut as shown in Tables 3 and 4 or with a blank cap.

## **7. DIMENSIONS**

**7.1** The traps and associated components shall conform to the dimensions given in Tables 1 to 8.

**7.2 Thickness of Wall** — The average thickness of the wall of the traps shall be not less than 2.3 mm and at no point shall be the thickness less than 1.6 mm.

**7.3 Depth of Seal** — The minimum depth of the seal shall be either 35 mm or 75 mm as ordered.

**7.4 Rake of Outlet** — In ' P ' traps, the outlet shall be in possession of a rake of  $1\frac{1}{2}^{\circ}$  Min and  $5^{\circ}$  Max below the horizontal when the access of the inlet is vertical. Variation shall be permissible when so ordered.

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\*Dimensions for pipe threads for fastening purposes.

## 8. MARKING

8.1 Each trap shall be clearly and permanently marked with the manufacturer's name and trade-mark, if any.

8.1.1 The trap may also be marked with the ISI Certification Mark.

**NOTE** — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution ( Certification Marks ) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

## APPENDIX A

( Clause 0.6 )

### INFORMATION TO BE SUPPLIED WITH ENQUIRY AND ORDER FOR TRAPS

A-1. The information to be supplied is given below:

- a) The nominal size;
- b) ' P ' or ' S ' trap;
- c) The depth of seal ( *see* 7.3 );
- d) The type of outlet ( *see* 6.3 );
- e) The external finish ( *see* 5.2 );
- f) Bath traps, whether overflow connection and a blank cap are required or two blank caps ( *see* 6.8 ); and
- g) In case of screwed end outlet traps whether the outlet is required fitted with plain and tail pipe and a coupling nut or with or without any of these components.

# BUREAU OF INDIAN STANDARDS

## Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones: 331 01 31, 331 13 75

Telegrams: Manaksanatha  
( Common to all Offices )

## Regional Offices:

	Telephone
Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002	{ 331 01 31 331 13 75
*Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola, CALCUTTA 700054	36 24 99
Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036	{ 2 18 43 3 16 41
Southern : C. I. T. Campus, MADRAS 600113	{ 41 24 42 41 25 19 41 29 16
†Western : Manakalaya, E9 MIDC, Marol, Andheri ( East ), BOMBAY 400093	6 32 92 95

## Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMADABAD 380001	{ 2 63 48 2 63 49
‡Peenya Industrial Area 1st Stage, Bangalore Tumkur Road BANGALORE 560058	{ 38 49 55 38 49 56
Gangotri Complex, 5th Floor, Bhadbhada Road, T. T. Nagar, BHOPAL 462003	6 67 16
Plot No. 82/83, Lewis Road, BHUBANESHWAR 751002	5 36 27
53/5, Ward No. 29, R.G. Barua Road, 5th Byelane, GUWAHATI 781003	3 31 77
5-8-56C L. N. Gupta Marg ( Nampally Station Road ), HYDERABAD 500001	23 10 83
R14 Yudhister Marg, C Scheme, JAIPUR 302005	{ 6 34 71 6 98 32
117/418 B Sarvodaya Nagar, KANPUR 208005	{ 21 68 76 21 82 92
Patliputra Industrial Estate, PATNA 800013	6 23 05
T.C. No. 14/1421, University P.O., Palayam TRIVANDRUM 695035	{ 6 21 04 6 21 17

## Inspection Offices ( With Sale Point ):

Pushpanjali, First Floor, 205-A West High Court Road, Shankar Nagar Square, NAGPUR 440010	2 51 71
Institution of Engineers ( India ) Building, 1332 Shivaji Nagar, PUNE 411005	5 24 35

\*Sales Office in Calcutta is at 5 Chowringhee Approach, P. O. Princep 27 68 00  
Street, Calcutta 700072

†Sales Office in Bombay is at Novelty Chambers, Grant Road, 89 65 28  
Bombay 400007

‡Sales Office in Bangalore is at Unity Building, Narasimharaja Square, 22 36 71  
Bangalore 560002

Reprography Unit, BIS, New Delhi, India