

# NATRAJ<sup>®</sup>

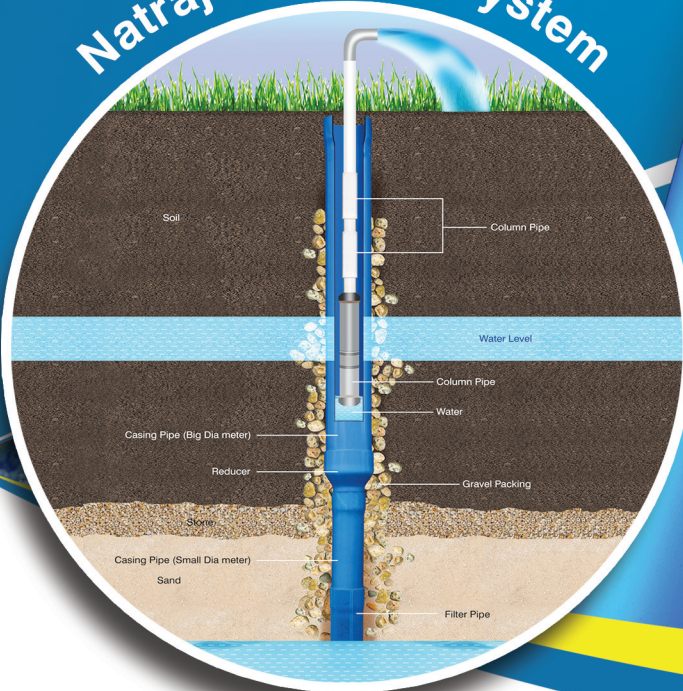
## uPVC CASING PIPES & FILTER PIPES

### for Borewells & Tubewells

*lifelines, not just pipelines*

- ✓ Economical & easy handling
- ✓ Non Conductive
- ✓ Quality Water
- ✓ Complement the well casing system
- ✓ Supplement better yields

### Natraj Tubewell System



IS-12818:2010



CM/L-5798706



An 9001 : 2008 Company

A product of  
**PRABHU POLY PIPES LTD.**

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## Casing pipes for Borewells/Tubewells:

These pipes are manufactured as per IS 12818:2010 for the purpose of construction of the tubewells and borewells which is then used for lowering the Pumps inside it for drawing water from the underground waterbed. These Borewells or Tubewells are one of the major sources of potable ground water in India specially for the rural areas.

In a typical Borewell system Screens Pipes are positioned at the water bearing levels usually at the bottom to filter sand particles from water followed by casing pipes on top. In general cases same size of strainer

and casing pipes is used for the entire system. However in specific cases to accommodate the pump set and to get higher yield at the upper levels higher size of casing pipes is also used which is attached to lower system using reducers.

uPVC Pipes being more resilient, non-corrosive and economical has successfully and effectively replaced the conventional metal piping materials.

### Range:

We manufacture these uPVC pipes as per IS 12818 and DIN 4925 of following sizes:

#### Casing pipes:

Sl No.	Nominal Size	Type	Suitable for Depth
1	DN 6 Inch (150 mm) to 12 Inch (300 mm)	Shallow Well Casings (CS) Pipes	For depths not exceeding 80 mtrs
2	DN 1½ Inch (40 mm) to 12 Inch (300 mm)	Medium Well Casings (CM) Pipes	For depths beyond 80 mtrs and upto 250 mtrs
3	DN 4 Inch (100 mm) to 12 Inch (300 mm)	Deep well Casing (CD) Pipes	for depths beyond 250 mtrs and upto 400 mtrs

#### Screen pipes:

Sl No.	Nominal Size	Type
1	1½ Inch (40 mm) to 8 Inch (200 mm)	Ribbed Medium Screen (RMS)
2	4 Inch (100 mm) to 8 Inch (200mm)	Ribbed Deep Screen (RDS)

### NATRAJ uPVC CASING PIPES AS PER IS 12818 : 2010

Nominal Outside Diameter Inch (mm)	Mean Outside Diameter		"Outer Diameter of Pipe at any point"		Mean Outer Diameter over connection	Wall thickness	
	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Max (mm)	Min (mm)	Max (mm)
<b>Type – Casing Medium (CM)</b>							
1½" (40)	48	48.2	47.9	48.3	52	3.5	4
2" (50)	60	60.2	59.9	60.3	65	4	4.6
3" (80)	88	88.3	87.9	88.4	94	4	4.6
4" (100)	113	113.3	112.9	113.4	120	5	5.7
5" (125)	140	140.4	139.9	140.5	150	6.5	7.3
6" (150)	165	165.4	164.6	165.6	178	7.5	8.5
7" (175)	200	200.5	199.6	200.6	215	8.8	9.8
8" (200)	225	225.5	224.5	225.8	243	10	11.2
10" (250)	280	280.5	279.4	280.8	298	12.5	14
12" (300)	330	330.6	329.3	331	352	14.5	16.2
<b>Type – Casing Shallow (CS)</b>							
6" (150)	165	165.4	164.8	165.6	174	5.7	6.5
7" (175)	200	200.5	199.6	200.6	211	7	7.8
8" (200)	225	225.5	224.5	225.8	238	7.6	8.8
10" (250)	280	280.5	279.4	280.8	292	9.6	11
12" (300)	330	330.6	329.3	331	346	11.2	13.3
<b>Type – Casing Deep (CD)</b>							
4" (100)	113	113.3	112.8	113.4	125	7	7.9
5" (125)	140	140.4	139.7	140.5	152	8	9
6" (150)	165	165.4	164.6	165.6	180	9.5	10.7
7" (175)	200	200.5	199.6	200.6	217	11.8	13.6
8" (200)	225	225.5	224.5	225.8	247	13	14.8
9" (250)	280	280.5	279.4	280.8	304	16	17.6
12" (300)	330	330.6	329.3	331	359	19	21

### NATRAJ uPVC SCREEN PIPES AS PER IS 12818 : 2010

Nominal Outside Diameter Inch (mm)	Mean Outside Diameter		"Outer Diameter of Pipe at any point"		Mean Outer Diameter over connection	Wall thickness	
	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Max (mm)	Min (mm)	Max (mm)
<b>Type – Ribbed Medium Screen (RMS)</b>							
1½" (40)	52	52.2	51.9	52.3	56	3.5	4
2" (50)	64	64.2	63.9	64.3	69	4	4.6
3" (80)	92	92.3	91.8	92.4	98	4	4.6
4" (100)	117	117.3	116.8	117.4	124	5	5.7
5" (125)	144	144.4	143.7	144.5	154	6.5	7.3
6" (150)	169	169.4	168.6	169.6	182	7.5	8.5
8" (200)	229	229.5	228.5	229.8	247	10	11.2
<b>Type – Ribbed Deep Screen (RDS)</b>							
4" (100)	117	117.3	116.8	117.4	129	7	7.9
5" (125)	144	144.4	143.7	144.5	156	8	9
6" (150)	169	169.4	168.6	169.6	184	9.5	10.7
8" (200)	229	229.5	228.5	229.8	251	13	14.8
<b>Type – Plain Medium Screen (PMS)</b>							
8" (200)	225	225.5	224.5	225.8	243	10	11.2
10" (250)	280	280.5	279.4	280.8	298	12.5	14
12" (300)	330	330.6	329.3	331	352	14.5	16.2
<b>Type – Plain Deep Screen (PDS)</b>							
8" (200)	225	225.5	224.5	225.8	247	13	14.8
10" (250)	280	280.5	279.4	280.8	304	16	17.6
12" (300)	330	330.6	329.3	331	359	19	21