

Jain Turbo Excel®

Excellence Beyond Comparison



Features & Benefits

Innovative Cascade Labyrinth

Hydrodynamically designed Cascade tooth structure helps to create double flow regime viz. central curving flow and turbulent cyclone in the dripper. This helps in continuous flushing of particles.

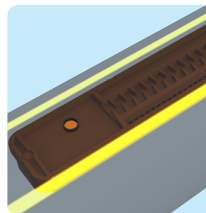
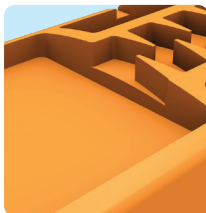


Three Dimensional Inlet Filter

Unique 3-D filtration surface (having length, width and depth) enable clog free operation even under high clog risk conditions.

Prevention of Sand Suction

Weir structure to prevent entry of sand particles in flow path

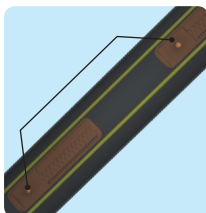


Laser Drilled Outlet Hole

Precision laser drilled outlet gives uniform and clear opening.

Manufactured With Most Modern, State-Of-The-Art Equipment.

It's computerised continuous online quality control monitors emitter spacing and precision in outlet drilling. Thus ensures reliable quality and consistent performance.

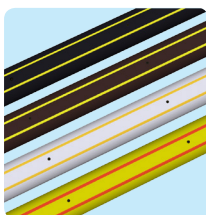


Marked With Two Parallel Yellow Stripes 'Twin-Line®'

Symbol of quality. It also helps to ensure upright positioning of the dripper to provide better clog resistance.

Flexibility in Color Selection

Black- for agriculture,
Brown - for landscape application,
White - for greenhouse application,
Purple- for reclaimed water application.



Available in Spool Packaging Options

Freight saver option on carton spool Jain Turbo Excel® Plus

Drip Line

Jain Turbo Excel®

Additional Features

Excellent CVm, manufacturer's coefficient of variation

Maintains close dimensional tolerances to ensure lowest CVm and best field emission uniformity.

Quality Come First

Each batch is tested for stringent quality parameters. Conforming to Indian standard IS 13488:2008 and international standard ISO 9261:2004.

Manufactured from special grade virgin plastic material

Makes the tubing durable and gives best environmental stress crack resistance (ESCR).

Twin Blue Line for Class 1 Tube

Special blue colored Twin Line tube is supplied.

Applications

- Jain Turbo Excel® is recommended for irrigation of closely spaced row crops like sugarcane, cotton, banana, strawberry, vegetables, spices, biofuel crops, floriculture, etc.
- Recommended to use in greenhouses and nurseries.
- Suitable for landscape, shrubs and turf irrigation.
- Used for widely spaced horticultural plants like mango, citrus, guava, apple etc. in group spacings.
- Suitable for multi-seasonal applications.
- Suitable for surface as well as sub surface installations.

Specifications

- **Discharges** : 0.75, 1.2, 1.6, 2.0 and 4.0 lph at 1 kg/cm² pressure (0.20, 0.32, 0.42, 0.53 and 1.06 gph at 14.2 psi pressure).
- **Emitter Spacings** : Standard emitter spacing of 15, 20, 30, 40, 50, 60, 75, 90, 100, 120 and 150 cm. Any other emitter spacings and group spacings can be supplied on demand.
- **Sizes** : Available 12, 16, 17, 18, 19, 20, 23 and 25 mm nominal diameter as per metric standard. Also available in 5/8", 7/8", 9/8" and 1-3/8" nominal diameter as per US standard.

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure ratings (lower/higher) after consulting company representative and with due care for filtration
- Recommended to use specially designed emitting pipe fittings.
- Filtration recommendation 100 micron or less. Actual quality of filtration can be decided by quality of source water. Please refer to our "Maintenance Manual" for more details.
- For better clogging resistance always keep the dripper in upright position.
- For subsurface application, install vacuum breaker valves on the submain as well as on the collective drain to avoid soil suction during system shutdown.



Jain Turbo Excel®

Technical Specification for Tubing - Metric

Nominal Dia. (mm)	Inside Dia.(mm)	Minimum Wall Thickness (mm)			Standard Length (m)
		Class 1	Class 2	Class 3	
*12	10.5	0.4	0.6	0.8	400, 700
*16	14.2	0.5	0.7	1.0	500
16	13.9	-	0.9	1.0	500
17	15.3	-	-	0.9	-
18	15.7	-	-	0.9	-
**19	18.9	-	0.8	-	-
*20	18.0	0.7	0.9	-	400, 250
23	20.8	-	0.9	-	-
*25	22.6	0.9	-	-	-

* Dimensions are as per Indian Standard IS 13488:2008.

** Dimensions as per Australian standard AS 2698.

Technical Specification for Tubing - US

Nominal Dia. Inch	Inside Dia. Inch	Minimum Wall Thickness (mil)			Carton Spool
		Class 1	Class 2	Class 3	
5/8	5/8	28	36	40	2296
7/8	7/8	28	36	40	1640
9/8	9/8	36	40	-	-
1-3/8	1-3/8	36	40	-	-

* 1 mil = 1/1000th part of 1 inch = 0.0254 mm

Technical Specifications for Emitter - Metric

Emitter discharge lph @1kg/cm ²	Emitter exponent	Flow coefficient	Coeff. of mfg. variation,	Flow path dimensions (mm)			Inlet filter area mm ²	Size of filter openings mm x mm
	x	k	CVm	Length	Width	Depth		
0.75	0.45	0.75	3.5	16.5	0.47	0.40	3.00	0.30 x 0.40
1.2	0.45	1.18	2	16.1	0.62	0.64	3.44	0.27 x 0.51
1.6	0.45	1.58	2	17.1	0.68	0.75	5.35	0.33 x 0.60
2.0	0.46	2.00	2	17.4	0.80	0.84	6.28	0.31 x 0.75
4.0	0.46	4.00	2	18.0	1.04	1.05	5.52	0.30 x 0.60

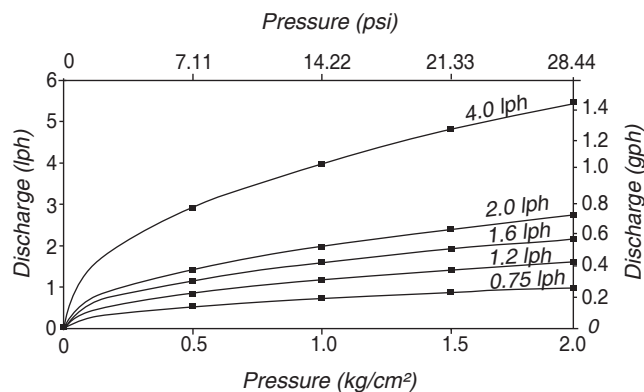
Flow equation $q = kH^x$, q = discharge, lph, H = Pressure head, kg/cm², x = Emitter exponent

Technical Specifications for Emitter - US

Emitter discharge gph @14.2 psi	Emitter exponent	Flow coefficient	Coeff. of mfg. variation,	Flow Path dimensions, inch			Inlet filter area sq. inch	Size of filter openings inch x inch
	x	k	CVm	Length	Width	Depth		
0.20	0.45	0.060	3.5	0.65	0.018	0.016	0.005	0.016x0.012
0.32	0.45	0.096	2	0.63	0.024	0.025	0.005	0.020x0.011
0.42	0.45	0.128	2	0.67	0.027	0.029	0.008	0.023x0.013
0.53	0.46	0.164	2	0.68	0.031	0.033	0.010	0.029x0.012
1.06	0.46	0.312	2	0.70	0.041	0.041	0.008	0.024x0.013

Flow equation $q = kH^x$, q = discharge, gph, H = Pressure head, psi, x = Emitter exponent

Performance Graph- Jain Turbo Excel®



Jain Turbo Excel®

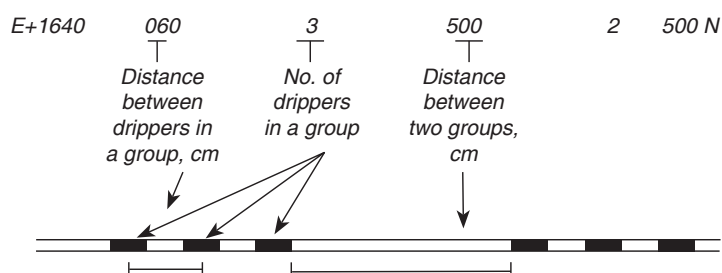
Ordering Specifications

E	X	XX	XX	XXX	X	XXX	N	Color of the tube
		Nominal diameter			Pressure Rating Class for Indian Standard tubing			
	+ : Carton Spool Blank : Standard Coil	12-12mm 16-16mm 17-17mm 18-18mm 19-19mm 20-20mm 23-23mm 58-5/8" 98-9/8" 78-7/8" 138-1-3/8"	Discharge in lph x 10	Dripper Spacing in cm	For tubings other than Indian Standard- min. wall thickness x 10	Standard Coil Length in meter	N - Non pressure compensating	Blank - Standard Black with 'Twin Line' B - Brown (Landscape) W - White (Greenhouse) P - Purple (Reclaimed Water)

Example : E+16400602500N - This code refers to Jain Turbo Excel® plus of 16mm nominal diameter having nominal discharge of 4 lph, emitter spaced at 60 cm, pressure rating class-2 and standard coil length of 500 m with standard black colored tubing with 'Twin Line'.

Note

- Jain Turbo Excel® is manufactured with ID control and declared OD are nominal. If you have specific ID or OD requirement, please mention while ordering.
- On request, Jain Turbo Excel® can be supplied in any other wall thickness and pressure ratings.
- Jain Turbo Excel® can be supplied in group spacing on request. Specify distance between drippers in the group, distance between two groups & no. of drippers in a group (minimum three drippers) as,



Maximum Running Length for Jain Turbo Excel®

Maximum Recommended Length (m), 12mm (10.5mm ID) at 1 kg/cm² inlet pressure

Dripper Spacing		15 cm	20 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm
Slope, %		Length,m								
Discharge: 0.75 lph										
10 % discharge variation	2	45.4	52.4	63.0	70.8	77.0	81.0	86.3	90.0	92.0
	1	50.4	59.6	75.0	88.0	98.5	108.0	120.8	130.5	137.0
	0	55.3	67.0	87.6	106.0	123.5	139.8	162.8	185.4	199.0
	-1	60.3	74.2	99.9	124.4	148.0	171.0	204.8	238.5	261.0
	-2	65.2	81.2	111.6	141.2	170.0	198.6	241.5	283.5	312.0
7.5 % discharge variation	2	39.3	45.0	53.4	59.2	63.0	66.0	69.0	71.1	73.0
	1	44.7	52.6	65.7	76.4	85.0	93.0	102.0	109.8	114.0
	0	50.1	60.6	79.2	96.0	111.5	126.6	147.8	167.4	180.0
	-1	55.5	68.4	92.7	116.0	138.0	160.2	192.8	225.9	247.0
	-2	60.7	76.0	105.3	134.0	162.0	190.2	231.8	271.7	304.0
Discharge: 1.2 lph										
10 % discharge variation	2	34.0	40.2	49.8	57.6	63.5	68.4	74.3	79.2	82.0
	1	36.6	43.8	56.1	66.8	75.5	83.4	94.5	104.4	110.0
	0	39.0	47.6	62.4	76.8	88.5	99.6	116.3	133.2	144.0
	-1	41.5	51.2	68.7	86.0	101.0	115.8	138.0	161.1	177.0
	-2	43.9	54.8	75.0	95.2	113.0	130.8	157.5	187.2	206.0
7.5 % discharge variation	2	30.0	35.0	42.9	49.2	53.5	57.0	61.5	64.8	67.0
	1	32.5	39.0	49.5	58.8	66.0	72.6	81.8	90.0	94.0
	0	35.4	43.0	56.4	69.2	80.0	90.0	105.0	120.6	130.0
	-1	38.1	47.0	63.3	79.6	94.0	107.4	129.0	151.2	166.0
	-2	40.6	51.0	69.9	89.6	107.0	123.6	150.0	178.2	197.0
Discharge: 1.6 lph										
10 % discharge variation	2	30.0	35.2	44.1	51.6	57.0	62.4	68.3	72.9	76.0
	1	31.8	38.0	48.6	58.4	66.0	73.8	84.0	91.8	97.0
	0	33.7	40.6	53.4	65.6	75.5	85.8	99.8	112.5	120.0
	-1	35.5	43.4	57.9	72.4	85.0	97.8	116.3	133.2	144.0
	-2	37.5	46.0	62.4	79.2	94.0	109.2	131.3	152.1	165.0
7.5 % discharge variation	2	26.5	31.0	38.4	44.4	49.0	52.8	57.0	60.3	62.0
	1	28.5	33.8	43.2	51.6	58.0	64.8	72.8	79.2	84.0
	0	30.4	36.8	48.3	59.2	68.5	77.4	90.8	101.7	109.0
	-1	32.5	39.8	53.4	66.8	78.5	90.6	108.0	124.2	134.0
	-2	34.5	42.6	58.2	74.0	88.0	102.6	124.5	144.0	157.0
Discharge: 2.0 lph										
10 % discharge variation	2	25.8	30.4	39.0	45.2	50.5	55.2	61.5	65.7	69.0
	1	27.1	32.4	42.3	50.4	57.0	63.6	72.0	79.2	85.0
	0	28.5	34.4	45.9	55.2	64.0	72.6	84.0	94.5	102.0
	-1	29.8	36.2	49.2	60.4	70.5	81.0	95.3	108.9	118.0
	-2	31.0	38.2	52.8	65.2	77.0	89.4	105.8	122.4	134.0
7.5 % discharge variation	2	22.8	26.8	34.2	39.2	43.5	47.4	51.8	55.8	58.0
	1	24.3	29.0	37.8	44.4	50.5	56.4	63.0	69.3	74.0
	0	25.8	31.0	41.4	50.0	57.5	65.4	75.8	85.5	92.0
	-1	27.1	33.2	45.3	55.2	65.0	75.0	87.8	100.8	110.0
	-2	28.6	35.2	48.9	60.8	72.0	83.4	99.8	115.2	127.0

Jain Turbo Excel®

Dripper Spacing		15 cm	20 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm
Slope, %		Length,m								
Discharge: 4.0 lph										
	Slope, %	Length,m	Length,m	Length,m	Length,m	Length,m	Length,m	Length,m	Length,m	Length,m
10 % discharge variation	2	17.3	20.6	26.7	31.6	36.0	39.6	45.0	48.6	52.0
	1	17.9	21.4	28.2	33.6	38.5	43.2	49.5	54.9	58.0
	0	18.5	22.2	29.7	35.6	41.5	46.8	54.8	61.2	65.0
	-1	18.9	23.0	30.9	37.6	44.5	50.4	59.3	67.5	73.0
	-2	19.5	23.8	32.4	39.6	47.0	54.0	63.8	72.9	79.0
7.5 % discharge variation	2	15.5	18.2	23.7	27.6	31.5	34.8	39.0	42.3	44.0
	1	16.1	19.2	25.2	30.0	34.5	38.4	44.3	48.6	52.0
	0	16.7	20.0	26.7	32.4	37.5	42.0	49.5	54.9	59.0
	-1	17.3	21.0	28.2	34.4	40.5	46.2	54.8	62.1	67.0
	-2	17.9	21.8	30.0	36.8	43.5	49.8	59.3	68.4	74.0
Note: +ve Slope : Uphill,		-ve Slope : Downhill								

Note: +ve Slope : Uphill, -ve Slope : Downhill

Maximum Recommended Length (m), 16mm(14.2mm ID) at 1 kg/cm² inlet pressure

Dripper Spacing		15 cm	20 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm
Slope, %		Length,m								
Discharge: 0.75 lph										
10 % discharge variation	2	65.5	73.2	83.1	88.8	92.5	94.8	97.5	99.0	99.0
	1	78.8	91.8	112.2	127.6	140.0	149.4	161.3	169.2	174.0
	0	92.9	112.2	147.0	178.0	207.0	234.6	273.8	310.5	334.0
	-1	106.7	132.4	181.2	228.0	273.5	318.6	386.3	453.6	498.0
	-2	119.7	151.0	211.2	270.0	328.0	386.3	453.6	520.9	575.0
7.5 % discharge variation	2	55.0	60.6	67.2	70.8	73.0	74.4	75.8	76.5	77.0
	1	68.8	79.6	95.7	107.6	116.5	123.6	131.3	136.8	139.0
	0	84.0	101.6	132.9	161.2	187.5	212.4	247.5	280.8	303.0
	-1	99.2	123.6	170.1	215.2	259.5	303.6	369.8	435.6	479.0
	-2	113.3	143.6	202.5	260.4	320.0	386.3	453.6	520.9	575.0
Discharge: 1.2 lph										
10 % discharge variation	2	53.5	61.2	72.3	79.2	84.5	88.2	91.5	94.5	96.0
	1	61.0	72.2	90.3	104.0	115.5	125.4	137.3	147.6	153.0
	0	68.8	83.6	109.8	132.4	153.0	173.4	201.0	227.7	244.0
	-1	76.5	95.0	129.3	160.4	190.0	221.4	263.3	307.8	335.0
	-2	83.9	105.8	147.0	185.2	222.5	261.6	315.0	374.4	411.0
7.5 % discharge variation	2	45.9	52.0	60.0	64.8	68.0	70.2	72.8	73.8	75.0
	1	53.8	63.4	78.3	89.2	98.5	106.2	114.8	122.4	126.0
	0	62.2	75.8	99.3	119.6	138.5	157.2	181.5	206.1	221.0
	-1	70.6	88.0	120.3	150.0	178.5	208.8	249.8	292.5	319.0
	-2	78.6	99.6	139.8	177.2	213.5	252.0	303.6	357.9	393.0
Discharge: 1.6 lph										
10 % discharge variation	2	45.7	53.0	63.3	71.2	77.0	81.0	85.5	89.1	91.0
	1	50.8	60.6	75.6	88.8	100.0	108.6	120.8	130.5	136.0
	0	56.2	68.4	88.8	108.0	126.0	141.6	165.8	188.1	201.0
	-1	61.5	76.0	102.0	127.2	152.0	174.6	209.3	243.9	265.0
	-2	66.6	83.6	114.3	144.8	175.5	203.4	247.5	290.7	318.0
7.5 % discharge variation	2	39.6	45.4	53.4	58.8	63.0	65.4	68.3	70.2	71.0
	1	45.1	53.4	66.3	76.8	86.0	93.0	102.0	109.8	114.0
	0	50.8	61.8	80.4	97.6	114.0	128.4	149.3	170.1	182.0
	-1	56.5	70.2	94.5	118.8	142.0	163.8	197.3	230.4	251.0
	-2	62.1	78.4	108.0	137.6	167.5	195.0	237.8	280.1	309.0

Maximum Running Length for Jain Turbo Excel®

Dripper Spacing		15 cm	20 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm
Slope, %		Length,m								
		Discharge: 2.0 lph								
10 % discharge variation	2	39.9	46.6	57.0	64.4	70.5	75.0	80.3	84.6	86.0
	1	43.6	52.2	66.3	77.2	87.5	96.6	107.3	117.0	123.0
	0	47.4	57.8	75.9	91.2	106.5	120.6	139.5	158.4	170.0
	-1	51.1	63.2	85.2	105.2	125.0	144.6	171.0	198.9	216.0
	-2	54.9	68.6	94.2	118.0	142.0	166.2	199.5	234.0	256.0
7.5 % discharge variation	2	34.8	40.4	48.6	54.0	58.5	61.8	65.3	67.5	69.0
	1	38.8	46.2	58.2	67.6	76.0	83.4	92.3	99.9	104.0
	0	42.9	52.2	68.4	82.4	96.5	109.2	126.0	143.1	153.0
	-1	46.9	58.2	78.9	97.6	116.5	135.0	160.5	187.2	204.0
	-2	51.0	64.0	88.8	111.6	135.0	158.4	191.3	225.0	246.0
		Discharge: 4.0 lph								
10 % discharge variation	2	28.2	33.2	41.7	48.4	54.0	58.8	65.3	70.2	73.0
	1	29.8	35.6	45.6	54.4	62.0	69.0	78.0	86.4	91.0
	0	31.5	37.8	49.8	60.4	70.0	79.2	91.5	103.5	111.0
	-1	33.0	40.2	53.7	66.4	77.5	89.4	105.0	121.5	131.0
	-2	34.6	42.6	57.6	72.0	85.5	99.0	117.8	137.7	150.0
7.5 % discharge variation	2	24.9	29.2	36.3	42.0	46.5	50.4	54.8	58.5	60.0
	1	26.7	31.6	40.5	48.0	54.5	60.6	68.3	74.7	79.0
	0	28.5	34.2	45.0	54.8	63.0	71.4	82.5	93.6	101.0
	-1	30.1	36.8	49.2	61.2	71.5	82.8	97.5	112.5	122.0
	-2	31.9	39.4	53.7	67.2	80.0	93.0	111.0	130.5	142.0

Note: +ve Slope : Uphill, -ve Slope : Downhill

Maximum Recommended Length (m), 20mm (18mm ID) at 1 kg/cm² inlet pressure

Dripper Spacing		15 cm	20 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm
Slope, %		Length,m								
		Discharge: 0.75 lph								
10 % discharge variation	2	81.2	87.2	93.9	96.8	98.5	99.6	100.5	101.7	102.0
	1	107.9	123.0	144.9	159.2	169.5	177.0	184.5	189.9	192.0
	0	139.2	168.4	220.5	267.2	310.5	351.6	410.3	466.2	502.0
	-1	170.0	212.8	295.2	375.2	453.5	531.6	648.0	297.9	273.0
	-2	197.4	251.2	355.2	430.8	512.0	591.2	719.3	817.9	888.0
7.5 % discharge variation	2	66.0	69.8	73.5	75.2	76.5	76.8	77.3	77.4	78.0
	1	92.6	104.2	120.0	130.0	136.5	141.0	145.5	148.5	150.0
	0	126.0	152.4	199.5	241.6	281.0	318.6	371.3	421.2	454.0
	-1	159.5	200.8	280.5	358.4	435.5	512.4	601.0	698.1	784.0
	-2	189.0	241.8	336.3	430.8	528.5	631.6	744.0	866.4	968.0
		Discharge: 1.2 lph								
10 % discharge variation	2	68.7	76.4	85.5	90.8	94.5	96.6	98.3	99.9	100.0
	1	84.0	98.0	118.5	134.4	146.5	156.6	166.5	174.6	178.0
	0	100.5	122.2	159.0	193.6	225.5	256.2	296.3	335.7	360.0
	-1	116.7	146.2	198.9	251.6	304.0	355.8	426.8	501.3	547.0
	-2	131.9	167.8	233.7	300.4	363.5	434.4	516.0	602.4	651.0
7.5 % discharge variation	2	57.4	62.8	68.7	72.0	74.0	75.0	75.8	76.5	77.0
	1	73.2	84.6	100.8	112.8	121.5	127.8	135.0	139.5	142.0
	0	90.9	110.6	144.0	175.2	204.0	231.6	267.8	304.2	326.0
	-1	108.6	136.6	187.2	238.4	289.0	339.6	409.5	482.4	528.0
	-2	125.0	160.0	224.7	286.8	355.5	431.8	516.3	609.0	668.0

Maximum Running Length for Jain Turbo Excel®

Dripper Spacing		15 cm	20 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm
Slope, %		Length,m								
Discharge: 1.6 lph										
10 % discharge variation	2	61.9	69.8	80.4	86.8	91.0	93.6	96.0	98.1	99.0
	1	73.0	85.8	106.5	121.2	134.0	143.4	155.3	163.8	168.0
	0	84.9	103.2	136.8	164.8	192.0	216.6	252.0	283.5	304.0
	-1	96.6	120.4	166.5	207.6	250.0	288.6	348.8	405.0	441.0
	-2	107.6	136.4	193.2	244.8	298.0	346.8	413.5	477.8	515.0
7.5 % discharge variation	2	52.3	58.2	65.7	69.6	72.0	73.2	75.0	75.6	76.0
	1	64.0	74.8	91.5	102.8	112.0	118.8	127.5	133.2	136.0
	0	76.8	93.4	123.9	149.2	174.0	195.6	228.0	256.5	275.0
	-1	89.6	112.2	156.3	195.6	236.5	274.2	333.0	387.9	424.0
	-2	101.4	129.4	184.8	235.2	288.0	346.8	413.5	477.8	515.0
Discharge: 2.0 lph										
10 % discharge variation	2	54.0	61.8	73.2	80.0	85.0	88.8	92.3	94.5	96.0
	1	61.6	73.0	91.5	105.6	117.5	127.2	139.5	149.4	154.0
	0	69.6	84.6	112.2	135.2	157.5	177.0	207.0	232.2	249.0
	-1	77.4	96.2	132.3	164.0	196.5	226.8	273.0	315.9	344.0
	-2	85.1	107.2	150.9	190.0	231.0	268.8	327.0	387.9	424.0
7.5 % discharge variation	2	46.2	52.2	60.6	65.2	68.5	70.8	72.8	74.7	75.0
	1	54.3	64.0	79.5	90.8	100.0	107.4	116.3	123.3	127.0
	0	63.0	76.6	101.4	122.4	142.5	160.2	186.8	210.6	225.0
	-1	71.5	89.2	123.3	154.0	185.0	214.2	258.8	300.6	328.0
	-2	79.7	101.0	143.4	182.0	222.0	258.6	300.5	345.5	380.0
Discharge: 4.0 lph										
10 % discharge variation	2	39.3	46.0	56.7	64.4	70.5	75.0	81.0	84.6	87.0
	1	42.9	51.2	65.7	76.8	87.0	95.4	107.3	116.1	122.0
	0	46.3	56.4	74.7	90.0	105.0	118.2	138.0	154.8	166.0
	-1	49.9	61.6	83.7	103.2	122.5	140.4	168.0	192.6	209.0
	-2	53.4	66.6	92.4	115.6	139.0	160.8	195.0	225.9	247.0
7.5 % discharge variation	2	34.3	40.0	48.3	54.0	58.5	61.8	66.0	68.4	70.0
	1	38.1	45.4	57.6	67.2	75.5	82.8	91.5	99.0	103.0
	0	42.0	51.0	67.5	81.6	95.0	106.8	124.5	140.4	150.0
	-1	45.7	56.6	77.4	95.6	114.5	131.4	157.5	181.8	197.0
	-2	49.5	62.2	87.0	109.2	132.0	153.0	186.8	216.9	237.0

Note: +ve Slope : Uphill, -ve Slope : Downhill

