

Annexure - I

63

TECHNICAL DATA SHEET **STAINLESS STEEL HYDRANT VALVE**

Sl. No.	Description	Technical Particulars
1.	Manufacturer	NewAge Industries / Shah Bhogilal
2.	Type	Female Oblique type single outlet angled towards ground
3.	Code / Standard	IS:5290 Type-A
4.	Hydrostatic Pressure Test of Body	21 Kg/cm ² (g)
5.	Water Tightness Test of Valve	14 Kg/cm ² (g)
6.	Flow	900 LPM at 7 Kg/cm ² (g)
7.	Size	Inlet 80 NB & Outlet 63 NB
8.	Bonnet Type	Screwed / Bolted
9.	Stem type	As per IS:5290 (Rising)
10.	Operation	Hand wheel (C.I.)
11.	End connection	Flanged
11.1	Inlet	Flanges (Flat Faced) drilled as per IS:1538
11.2	Outlet	Female instantaneous coupling with spring lock type coupling as per IS:5290 with blank cap & chain
12.	Material of Construction	
12.1	Body	SS
12.2	Bonnet	SS
12.3	Stop Valve	SS
12.4	Seat	Neoprene Rubber
12.5	Check Nut & Gland Nut	SS
12.6	Spindle	SS
12.7	Hand Wheel	CI to IS:210
12.8	Instantaneous coupling	SS
12.9	Spring	Ph bronze wire IS:7608
12.10	Gland packing	Asbestos as per IS:4687
12.11	Washer & Gasket	Rubber to IS:937
12.12	Blank Cap	ABS plastic
13.	TAC approved and ISI marked	Yes
14.	Quantity	As per approved layout drawings
15.	Catalogue enclosed	

BHEL	CAT-1
APPROVED	
This Approval does not relieve the Sub-Contractor of his responsibilities under the contract.	
SIGNED <i>[Signature]</i>	DATE 23/02/10
Transmission Projects Engineering Management	

Name of Supplier - TECHNICO (INDIA) PVT. LTD.					
ADDRESS OF SUPPLIER - 3, B. B. GANGULY STREET, KOLKATA - 700012					
PROJECT	APGCL - Namrup	Rev	Date	Prepared	Jolly Mukherjee
P.O. NO. & DATE	319P462, dtd. 02.01.2010	0	05.02.10	Checked	J Mukherjee
CUSTOMER	Assam Power Ltd.				
CLIENT	Bharat Heavy Electricals Limited - TBG, New Delhi				
DATA SHEET NO.	TIPL/P-356/TDS-01			DATE	05.02.10

JD:tm (TDS-01-HYD-VLV-NUMRUP)

Annexure-I

62

TECHNICAL DATA SHEET
BRANCH PIPE WITH NOZZLE

Sl. No.	Description	Technical Particulars
1.	Manufacturer	NewAge Industries / Shah Bhogilal
2.	Code & Standard	
a)	Branch Pipe	IS : 903
b)	Nozzle	IS : 903
3.	Type	Solid stream (Jet type)
4.	Size (Branch Pipe & Nozzle)	
a)	Inlet	63 mm dia
b)	Outlet	20 mm dia
5.	End Connection	Instantaneous Male
6.	Material of Construction	
a)	Branch Pipe	SS
b)	Nozzle	SS
c)	Washer	Rubber to IS:937, Type - B
7.	Hydrostatic Pressure	21 Kg/ cm ² for 2.5 minutes
8.	TAC Approved	Yes
9.	Quantity	As per approved drawings
10.	Marking	ISI Marked
11.	Catalogue enclosed	Yes

BHEL	CAT-1
APPROVED	
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SIGNED G.W.D.	DATE 23/02/10
Transmission Projects Engineering Management	

Name of Supplier - TECHNICO (INDIA) PVT. LTD.					
ADDRESS OF SUPPLIER - 3, B. B. GANGULY STREET, KOLKATA - 700012					
PROJECT	APGCL - Namrup	Rev	Date	Prepared	Jolly Mukherjee
P.O. NO. & DATE	319P462, dtd. 02.01.2010	0	05.02.10	Checked	J Mukherjee
CUSTOMER	Assam Power Ltd.				
CLIENT	Bharat Heavy Electricals Limited - TBG, New Delhi				
DATA SHEET NO.	TIPL/P-356/TDS-02			DATE	05.02.10

JD:tm (TDS-02-BRANCH-PIPE-NUMRUP)

Annexure-I

TECHNICAL DATA SHEET HOSE PIPE WITH G.M. COUPLING

Sl. No.	Description	Technical Particulars
1.	Manufacturer	NEWAGE / CHATARIA
2.	Confirm to IS Code	IS: 636 Type-A
3.	Type	Non-Percolating Flexible Reinforced Rubber Lined (RRL)
4.	Quantity	As per approved drawings
5.	Hydrostatic Burst Pressure	38 Kg/ cm ²
6.	Working Pressure	7 Kg/ cm ²
7.	Hydrostatic Proof Pressure	22 Kg/ cm ² for 1 minute
8.	Mass of Hose per meter	425 gm/m (Max.)
9.	Size	63 mm x 15 M Long (External)
10.	Hoses shall have ISI certification marks	Yes
11.	Type of coupling	Instantaneous spring lock type as per IS: 903 Male / Female (GM)
12.	Material of hose coupling	SS
13.	Whether approved by TAC	Yes
14.	Whether Hose Coupling shall be ISI marked?	Yes
15.	Catalogue enclosed	Yes

BHEL	CAT-1
APPROVED	
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Transmission Projects Engineering Management	

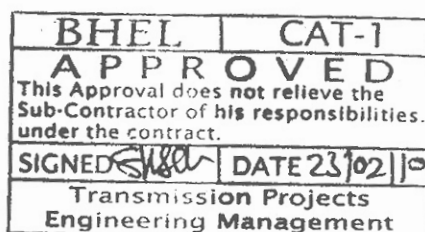
Name of Supplier - TECHNICO (INDIA) PVT. LTD.					
ADDRESS OF SUPPLIER - 3, B. B. GANGULY STREET, KOLKATA - 700012					
PROJECT	APGCL - Namrup	Rev	Date	Prepared	Jolly Mukherjee
P.O. NO. & DATE	319P462, dtd. 02.01.2010	0	05.02.10	Checked	J Mukherjee
CUSTOMER	Assam Power Ltd.				
CLIENT	Bharat Heavy Electricals Limited - TBG, New Delhi				
DATA SHEET NO.	TIPL/P-356/TDS-03			DATE	05.02.10

JD-1m (TDS-03-HOSE-NUMRUP)

Annexure I

TECHNICAL DATA SHEET
HOSE BOX (EXTERNAL & INTERNAL)

Sl. No.	Description	Technical Particulars
1.	Manufacturer	TECHNICO / ASCO STRUMECH
2.	Code/ Standard	Manufacturer's standard
3.	Material of Construction	MS to IS: 2062-16 SWG
4.	Accessories	
a)	External	To accommodate 2 nos. of 63 mm x 15 m long hoses with coupling and 1 no. of branch pipe with nozzle
5.	Type	Pedestal mounting (for external hydrant)
6.	Size (mm)	External : 750 x 600 x 250mm
7.	Quantity	As per approved drawing
8.	Painting (Inside & Outside)	The inside & outside surface shall be painted with two coats of red oxide primer followed by two coats of synthetic enamel P.O. Red paint.
9.	Marking	'FIRE' in 150 mm size letter inscribed on 3 mm thk. glass fronted door
10.	Locking arrangement	Built in lock, reputed make with key
11.	Accessories provided	Yes as per specification
12.	Drawing enclosed	Drg. No. TIPL/P-313/HBOX-EXT/01



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P.O. NO. & DATE	319P462, dtd. 02.01.2010	0	05.02.10	Checked	J Mukherjee
CUSTOMER	Assam Power Ltd.				
CLIENT	Bharat Heavy Electricals Limited - TBG, New Delhi				
DATA SHEET NO.	TIPL/P-356/TDS-04			DATE	05.02.10

JD:tm (TDS-04-HOSE BOX-NUMRUP)

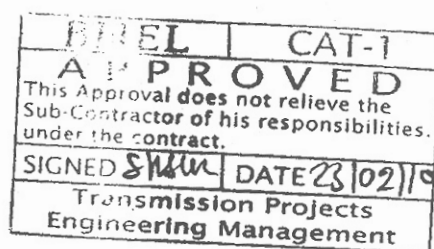
54

Annexure-I

TECHNICAL DATA SHEET

M.S. PIPES & FITTINGS

Sl. No.	Description	Technical Particulars
1.0	Overground Piping with Painting	
1.1	Manufacturer	JINDAL / TATA / SAIL
1.2	Material	Mild Steel Black Pipes
1.3	Standard	IS : 1239, Part-I Medium Grade for 150 NB & below
1.4	Type	ERW
1.5	End / Facing	Plain End
1.6	Type of Joint	Butt Weld / Flanged
1.7	Painting	Two coats of red oxide primer followed by two coat of synthetic enamel paint of IS : 5 shade P.O. Red
1.8	Pipe fittings	Shall be M.S. as per IS:1239 Part-II butt welded upto 150 NB.
1.9	Whether Approved by TAC	Yes



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PROJECT	APGCL - Namrup	Rev	Date	Prepared	Jolly Mukherjee	
P.O. NO. & DATE	319P462, dtd. 02.01.2010	0	05.02.10	Checked	J Mukherjee	
CUSTOMER	Assam Power Ltd.					
CLIENT	Bharat Heavy Electricals Limited - TBG, New Delhi					
DATA SHEET NO.	TIPL/P-356/TDS-05			DATE	05.02.10	

JD:tm (TDS-05-MS-PIPE-NUMRUP)

58

Annexure-I

TECHNICAL DATA SHEET
CAST IRON GATE VALVE

Sl. No.	Description	Technical Particulars
1.	Manufacturer	H. SARKER / Shivdurga / Kalpana
2.	Type	Inside Screwed Non Rising Spindle type
3.	Nos. offered	As per BOQ
4.	Standard	As per IS:14846 PN 1.6 with flange drilled as per IS:1538
5.	Manufacturing & Testing standard	As per IS:14846, PN 1.6
6.	End connection	Double flanged
7.	Closing direction	Clockwise
8.	Marking	ISI marked
9.	Whether TAC Approved	Yes
10.	Material of construction	
a)	Body, Bonnet wedge	C.I., IS-210, FG 200
b)	Stem	AISI:410 / IS:6603, Gr.12 Cr.13
c)	Wedge / Body Ring	Bronze, IS-318, LTB-2
d)	Wedge Nut	Bronze, IS-318, LTB-2
e)	Bolt	Carbon Steel to IS:1367
f)	Nuts	Carbon Steel to IS:1367
g)	Bonnet	C.I., IS:210, FG 200
h)	Hand Wheel	Cast Iron
i)	Gland Packing	Jute & Hemp as per IS:5414
11.	Hydrostatic Test Pressure (Gauge)	24 Kg/cm ² for Body & 16 Kg/cm ² for seat
12.	Shop Test carried out by Manufacturer	Hydraulic test for body & seat
13.	Gate Valve provided with Hand Wheel	Yes
14.	Marking & approval	ISI marked & TAC approved
15.	Catalogue enclosed	Yes

BHEL **CAT-1**
APPROVED
This Approval does not relieve the
Sub-Contractor of his responsibilities.
under the contract.
SIGNED *[Signature]* DATE 23/02/10

Name of Supplier - TECHNICO (INDIA) PVT. LTD.		Transmission Projects	
ADDRESS OF SUPPLIER - 3, B. B. GANGULY STREET, KOLKATA - 700012		Engineering Management	
PROJECT	APGCL - Namrup	Rev	Date
P.O. NO. & DATE	319P462, dtd. 02.01.2010	0	05.02.10
CUSTOMER	Assam Power Ltd.		
CLIENT	Bharat Heavy Electricals Limited - TBG, New Delhi		
DATA SHEET NO.	TIPL/P-356/TDS-06		DATE 05.02.10

JD:tm (TDS-06-GVALVE-NUMRUP)

Annexure - I

57

TECHNICAL DATA SHEET
WRAPPING & COATING

SL. No.	Description	Technical Particulars
1.0	Make	Rustech, Kolkata / IWL
2.0	Type	Coal Tar type
3.0	Qty	As per Approved Drawing
4.0	Standard	As per AWWA-C203
5.0	Thickness	4 mm
6.0	Primer	Coal tar primer
7.0	Approved by TAC	Yes

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P.O. NO. & DATE	319P462, dtd. 02.01.2010	0	05.02.10	Checked	J Mukherjee
CUSTOMER	Assam Power Ltd.				
CLIENT	Bharat Heavy Electricals Limited - TBG, New Delhi				
DATA SHEET NO.	TIPL/P-356/TDS-07			DATE	05.02.10