



QUALITY MANAGEMENT SYSTEM - FORMS

QUALITY ASSURANCE PLAN -DI RESILIENT SEATED GATE VALVE

User /Client	Rural Water Supply and Sanitation- Hyderabad	Doc No.:	AVKVIPL / D / 01	Valve standard	IS14846/BS5163
Contractor	L & T Construction, Chennai	Revision No.:	I	Valve testing Std	BS5163/12266-1
Manufacturer	AVK Valves India Pvt Ltd	Issue Date:	06.02.2013	Flanges Drilling	EN1092-2 PN10/PN16
Project	Telegana Drinking Water Supply Project - Adilabad Water Supply Scheme	Page	I	Valve Pressure rating	PN 16
P.O.NO & Date		QAP.REF.NO.	AVKVIPL/QAP/1617/00017		Dt.20.04.2016
		Drawing No:	02XXX202X4 & 55XX660A4		
		ITEM	DI RESILIENT SOFT SEATED GATE VALVE - DN50 TO DN600 all are PN16		

Sr.No	Component /Material	Charateristic Checked	Category	Type of Check	Quantum of Check		Reference Documents	Acceptance Norm	Format or Record	Inspection		Remarks
					M	L&T and TPIA				M	L&T and TPIA	
A Raw Material Control:												
1	Body & Bonnet Casting of Grade GGG50/SG500/7, Stem, Stem Bearing & Wedge with EPDM Rubber Volcanized	Chemical Properties	Major	Chemical Analysis	1 per lot	-	IS 3896:1985 part 2 1865:1991/EN1563, AISI 430, EPDM / as per Approved Drawing	IS 3896:1985 part 2 1865:1991/EN1563, AISI 430, EPDM / as per Approved Drawing	MTC/Internal Test Certificates of the Manufacturer	P	R	No Weld Repair on the casting is permitted
		Mechanical Properties	Major	Mechanical Test	1 per lot	-	IS 3896:1985 part 2 1865:1991/EN1563 / As per Approved Drawing	IS 3896:1985 part 2 1865:1991/EN1563 / As per Approved Drawing		P	R	
B In Process Inspection : Mechanical Component												
1	Flanges of the Valve		Major	Dimension	Sample Inspection as per ISO 2859-1 Table 1 S 2	10%	As per Approved Drawing	As per Approved Drawing	Internal Test Certificate of the Manufacturer	P	R	
2	Stem Test	Inspection	Critical	Ultra Sonic Test		10%	Ultra sonic test specification	as per IS11630	Internal Test Certificate of the Manufacturer	P	R	
3	Stem Test	Inspection	Critical	Liquid Penetration and Flaw Detection Test		10%	Liquid Penetration & Flaw Detection test	IS 14846:2000	Final Inspection Report	P	R	
C Final Inspection and Test												
1	Complete valve with Handwheel	Surface Defect	Major	Visual		100%	IS14846:2000 & As per Approved Drawing	Free from Harmful surface defects	Internal Inspection report	P	W	
2	Complete valve with Handwheel	Visual and Dimensional Check	Major	Measurement		100%	IS14846:2000 & As per Approved Drawing	Face to face in accordance with IS14846:2000	Final Inspection Report	P	W	
3	Complete valve with Handwheel	Performance Test	Major	Operational		100%	IS 14846:2000	Smooth Operation - Open & Close	Final Inspection Report	P	W	
4	Body Tightness	Hydrostatic Pressure	Critical	Pressure Gauge and Leak tightness		100%	Appendix B of IS14846:2000	No Leakages	Final Inspection Report	P	W	
5	Seat Tightness		Critical	Pressure Gauge and Leak tightness		100%	Appendix B of IS14846:2000	No Leakges both Directions	Final Inspection Report	P	W	
6	Post Blasting Painting - Electrostatic powder coating both inside and outside packet less body passage	Painting appearance & Thickness	Major	Visual		100%	As per Specification and as per Approved drawing	>250 microns	Final Inspection Report / Painting Batch Certificate	P	W	
7	Marking	Details of the Valve	Major	Visual		100%	IS14846:2000	In accordance with IS14846:2000 Clause 11.1	Final Inspection Report	P	W	

- The manufacturer should provide Body, Bonnet of DI Grade GGG50 /SG500/7 or equivalent grade as per IS 3896 -part 2, 1985 and Subsequent revisions.
- If the Valve Manufacturing company is procuring casting (body, bonnet, wedge & stem) from an outside agency, then quality control is to be ensured by the valve manufacturing company by performing the quality tests at the premises of casting factory. The mill certificates, duly signed by the both is to be invariably submitted.
- Wedge shall be fully rubber lined with EPDM food grade quality and seals of NBR
- The Valves shall be of vacuum tight and 100% leak proof with face to face dimensions as per the Drawings
- The Valves shall be with electrostatic powder coating both inside and outside pocket less body passage
- Copies of internal reports shall be given to TPQA for scrutiny before inspection
- All measuring instruments and testing equipments should be calibrated periodically and put up to third party inspection agency for verification
- Manufacturer shall carry out 100% inspection on final product
- Verified items may be randomly witnessed by the concerned if necessary
- A name plate with the lettering-TDWSP - RWSS is to be fixed on the valves
- A warranty certificate for 10 years in favour of respective ULB has to be given by the manufacturer of the valves.
- Legend M: Manufacturer, TPQA: Third party Quality Audit, P: Perform, W: Witness, R: Review, MTC: Material Test Certificate
- Witness point shall be 10% of each size
- All component material shall be as per approved drawing / client tech specifications



(R)

for
 Sujeek
 27/05/2016
 (Muhammed Sujeek)



Executive Engineer
 TDWSP (Grid), Division, Asifabad.

Dy. Executive Engineer
 TDWSP Asifabad

Superintendent Engineer
 TDWSP Nirmal



QUALITY MANAGEMENT SYSTEM - FORMS

QUALITY ASSURANCE PLAN -DI METAL SEATED GATE VALVE

Doc No.:	AVKVIPL / D / 01	Valve standard	IS14846/BS5163
Revision No.:	1	Valve testing Std	BS5163/12266-1
Issue Date:	06.02.2013	Flanges Drilling	EN1092-2 PN10/PN16
Page	1	Valve Pressure rating	PN 16
QAP.REF.NO.	AVKVIPL/QAP/1617/0020	Dt.20.04.2016	
Drawing No:	54XXX311101402		
ITEM	DI METAL SEATED GATE VALVE DN700 PN16		

User /Client Rural Water Supply and Sanitation- Hyderabad
 Contractor L & T Construction, Chennai
 Manufacturer AVK Valves India Pvt Ltd
 Project Telegana Drinking Water Supply Project - Adilabad Water Supply Scheme
 P.O.NO & Date ED 326PO6000102 Dt: 27 Apr 2016

Sr.No	Component /Material	Chararistic Checked	Category	Type of Check	Quantum of Check		Reference Documents	Acceptance Norm	Format or Record	Inspection		Remarks
					M	L&T and TPIA				M	L&T and TPIA	
A Raw Material Control:												
1	Body & Bonnet Casting of Grade GGG50/SG500/7.Stem,Stem Bearing & Wedge	Chemical Properties	Major	Chemical Analysis	1 per lot	-	IS 3896:1985 part 2 1865:1991/EN1563, AISI 430,EPDM / as per Approved Drawing	IS 3896:1985 part 2 1865:1991/EN1563, AISI 430,EPDM / as per Approved Drawing	MTC/Internal Test Certificates of the Manufacturer	P	R	No Weld Repair on the casting is permitted
		Mechanical Properties	Major	Mechanical Test	1 per lot	-	IS 3896:1985 part 2 1865:1991/EN1563 / As per Approved Drawing	IS 3896:1985 part 2 1865:1991/EN1563 / As per Approved Drawing		P	R	
B In Process Inspection : Mechanical Component												
1	Flanges of the Valve		Major	Dimension	Sample Inspection as per ISO 2859-1 Table 1 S 2	10%	As per Approved Drawing	As per Approved Drawing	Internal Test Certificate of the Manufacturer	P	R	
2	Stem Test	Inspection	Critical	Ultra Sonic Test	10%	10%	Ultra sonic test specification	as per IS11630	Internal Test Certificate of the Manufacturer	P	R	
3	Stem Test	Inspection	Critical	Liquid Penetration and Flaw Detection Test	10%	10%	Liquid Penetration & Flaw Detection test	IS 14846:2000	Final Inspection Report	P	R	
C Final Inspection and Test												
1	Complete valve with Handwheel	Surface Defect	Major	Visual	100%	10%	IS14846:2000 & As per Approved Drawing	Free from Harmful surface defects	Internal Inspection report	P	W	
2	Complete valve with Handwheel	Visual and Dimensional Check	Major	Measurement	100%	10%	IS14846:2000 & As per Approved Drawing	Face to face in accordance with IS14846:2000	Final Inspection Report	P	W	Visual Shall be 100% W
3	Complete valve with Handwheel	Performance Test	Major	Operational	100%	10%	IS 14846:2000	Smooth Operation - Open & Close	Final Inspection Report	P	W	
4	Body Tightness	Hydrostatic Pressure	Critical	Pressure Gauge and Leak tightness	100%	10%	Appendix B of IS14846:2000	No Leakages	Final Inspection Report	P	W	
5	Seat Tightness		Critical	Pressure Gauge and Leak tightness	100%	10%	Appendix B of IS14846:2000	No Leakges both Directions	Final Inspection Report	P	W	
6	Post Blasting Painting - Electrostatic powder coating both inside and outside packet less body passage	Painting appearance & Thickness	Major	Visual	100%	10%	As per Specification and as per Approved drawing	>250 microns	Final Inspection Report / Painting Batch Certificate	P	W	
7	Marking	Details of the Valve	Major	Visual	100%	10%	IS14846:2000	In accordance with IS14846:2000 Clause 11.1	Final Inspection Report	P	W	

- The manufacturer should provide Body,Bonnet of DI Grade GGG50 /SG500/7 or equivalent grade as per IS 3896 -part 2,1985 and Subsequent revisions.
- If the Valve Manufacturing company is procuring casting (body,bonnet,wedge & stem) from an outside agency, then quality control is to be ensured by the valve manufacturing company by performing the quality tests at the premises of casting factory. the mill certificates,duly signed by the both is to be invariably submitted.
- Wedge shall be fully rubber lined with EPDM food grade quality and seals of NBR
- The Valves shall be of vaccum tight and 100% leak proof with face to face dimensions as per the Drawings
- The Valves shall be with electrostatic powder coating both inside and outside pocket less body passage
- Copies of internal reports shall be given to TPQA for scrutiny before inspection
- All measuring instruments and testing equipments should be calibrated periodically and put up to third party inspection agency for verification
- Manufacturer shall carry out 100% inspection on final product
- Verified items may be randomly witnessed by the concerned if necessary
- A name plate with the lettering-TDWSP - RWSS is to be fixed on the valves
- A warranty certificate for 10 years in favour of respective ULB has to be given by the manufacturer of the valves.
- Legend M:Manufacturer, TPQA: Third party Quality Audit, P:Perform, W:Witness, R:Review, MTC: Material Test Certificate
- Witness point shall be 10% of each size
- All component material shall be as per approved drawing / client tech specifications
- Gear boxMTC shall be provided



Dy. Executive Engineer
TDWSP Asifabad

(Muhammed Sufjeek)

Executive Engineer
TDWSP (Grid), Division, Asifabad.

Superintendent Engineer
TDWSP Nirmal



QUALITY MANAGEMENT SYSTEM - FORMS

QUALITY ASSURANCE PLAN - DI BUTTERFLY VALVES

Doc No.:	AVKVIPL / D / 01	Valve standard	IS13095/EN593/BS5155
Revision No.:	1	Valve testing Std	IS13095/EN593/ EN12266-1
Issue Date:	06.02.2013	Flanges Drilling	As per IS1538/EN1092-2 PN10
Page	1	Valve Pressure rating	PN 16
QAP.REF.NO.	AVKVIPL/QAP/1617/00018	Dt. 20.04.2016	
Drawing No:	756XXXX1C4018014, 756XXXX104018018 & 756XXXX204018014		
ITEM	DI BUTTERFLY VALVE - DN200 TO DN2200 all are PN16		

User /Client	Rural Water Supply and Sanitation - Hyderabad		
Contractor	L & T Construction , Chennai		
Manufacturer	AVK Valves India Pvt Ltd		
Project	Telegana Drinking Water Supply Project -Adilabad Water Supply Scheme		

Sr.No	Component /Material	Charateristic Checked	Category	Type of Check	Quantum of Check		Reference Documents	Acceptance Norm	Format or Record	Inspection		Remarks
					M	L & T and TPIA				M	L&T and TPIA	
A Raw Material Control:												
1	Body & Bonnet Casting of Grade GGG50/SG500/7,Shaft & Seal Ring with EPDM Rubber	Chemical Properties	Major	Chemical Analysis	1 per lot	-	IS 3896:1985 part 2 IS 1865:1991/EN1563, AISI 430,EPDM/ as per Approved Drawing	IS 3896:1985 part 2 IS 1865:1991/EN1563, AISI 430,EPDM as per Approved Drawing	MTC/Internal Test Certificates of the Manufacturer	P	R	No Weld Repair on the casting is permitted
		Mechanical Properties	Major	Mechanical Test	1 per lot	-	IS 3896:1985 part 2 IS 1865:1991/EN1563 / As per Approved Drawing	IS 3896:1985 part 2 IS 1865:1991/EN1563 as per Approved Drawing		P	R	
B In Process Inspection : Mechanical Component												
1	Flanges of the Valve		Major	Dimension	Sample Inspection as per ISO 2859-1 Table 1 S 2	10%	As per Approved Drawing	As per Approved Drawing	Internal Test Certificate of the Manufacturer	P	R	
2	ShaftTest	Inspection	Critical	Ultra Sonic Test	10%	10%	Ultra sonic test specification	as per IS11630	Internal Test Certificate of the Manufacturer	P	R	
3	Shaft Test	Inspection	Critical	Liquid Penetration and Flaw Detection Test	10%	10%	Liquid Penetration & Flaw Detection test	IS 14846:2000	Final Inspection Report	P	R	
C Final Inspection and Test												
1	Complete valve with Handwheel	Surface Defect	Major	Visual	100%	10%	IS13095 & As per Approved Drawing	Free from Harmful surface defects	Internal Inspection report	P	W	
2	Complete valve with Handwheel	Visual and Dimensional Check	Major	Measurement	100%	10%	IS13095 & As per Approved Drawing	Face to face in accordance with IS13095	Final Inspection Report	P	W	
3	Complete valve with Handwheel	Performance Test	Major	Operational	100%	10%	IS 13095	Smooth Operation - Open & Close	Final Inspection Report	P	W	
4	Body Tightness	Hydrostatic Pressure	Critical	Pressure Gauge and Leak tightness	100%	10%	Appendix B of IS13095	No Leakages	Final Inspection Report	P	W	
5	Seat Tightness		Critical	Pressure Gauge and Leak tightness	100%	10%	Appendix B of IS13095	No Leakges both Directions	Final Inspection Report	P	W	
6	Post Blasting Painting - Electrostatic powder coating both inside and outside packet less body passage	Painting appearance & Thickness	Major	Visual	100%	10%	As per Client tech Specification and as per Approved drawing	>250 microns	Final Inspection Report / Painting Batch certificate	P	W	
7	Marking	Details of the Valve	Major	Visual	100%	10%	IS13095	In accordance with IS14846:2000 Clause 11.1 / as per Client tech specification	Final Inspection Report	P	W	

- The manufacturer should provide Body,Bonnet of DI Grade GGG50 /SG500/7 or equivalent grade as per IS 3896 -part 2,1985 and Subsequent revisions.
- If the Valve Manufacturing company is procuring casting (body,bonnet,seal ring & shaft from an outside agency, then quality control is to be ensured by the valve manufacturng company by performing the quality tests at the premises of casting factory. the mill certificates,duly signed by the both is to be invariably submitted.
- Seal ring : EPDM food grade quality and seals of NBR
- The Valves shall be of vaccum tight and 100% leak proof with face to face dimensions as per the Drawings
- The Valves shall be with electrostatic powder coating both inside and outside pocket less body passage
- Copies of internal reports shall be given to TPQA for scrutiny before inspection
- All measuring instruments and testing equipments should be calibrated periodically and put up to third party inspection agency for verification
- Manufacturer shall carry out 100% inspection on final product
- Verified items may be randomly witnessed by the concerned if necessary
- A name plate with the lettering-TDWSP - RWSS is to be fixed on the valves
- A warranty certificate for 10 years in favour of respective ULB has to be given by the manufacturer of the valves.
- Legend M:Manufacturer, TPQA: Third party Quality Audit, P:Perform, W:Witness, R:Review, MTC: Material Test Certificate
- Material like EPDM rubber & FBE Powder Coating are approved by NSF/WRA (Good Grade) up to 60 degree celcius (for drinking water application) - certificate shall be provided
- Witness point shall be 10% of each size
- Disc strength test at body test pressure in each direction
- Valve Operation with & Without actuator (if applicable)



for
27/05/2016
(Muhammed Sulfeek)



Executive Engineer
TDWSP (Grid), Division, Asifabad.

Dy. Executive Engineer
TDWSP Asifabad

Superintendent Engineer
TDWSP Nirmal



QUALITY MANAGEMENT SYSTEM - FORMS

QUALITY ASSURANCE PLAN - DI AIR VALVE

Doc No.:	AVKVIPL / D / 01	Valve standard	IS 14845 /AWWA512-92
Revision No.:	1	Valve testing Std	IS 14845 /AWWA512-92
Issue Date:	06.02.2013	Flanges Drilling	IS1538
Page	1	Valve Pressure rating	PN 16
QAP.REF.NO.	AVKVIPL/QAP/1617/00019		Dt.20.04.2016
Drawing No:	851XXX48X11000		
ITEM	DI AIR VALVE - DN25 TO DN200 all are PN16		

User /Client	Rural Water Supply and Sanitation - Hyderabad
Contractor	L & T Construction, Chennai
Manufacturer	AVK Valves India Pvt Ltd
Project	Telegana Drinking Water Supply Project-Adilabad Water Supply Scheme

Sr.No	Component /Material	Chararistic Checked	Category	Type of Check	Quantum of Check		Reference Documents	Acceptance Norm	Format or Record	Inspection		Remarks
					M	L&T and TPIA				M	L&T and TPIA	
A Raw Material Control:												
1	Body & Bonnet Casting of Grade GGG50/SG500/7,Internals & Seal Ring with EPDM Rubber	Chemical Properties	Major	Chemical Analysis	1 per lot	-	IS 3896:1985 part 2 IS 1865:1991/EN1563, AISI 430,EPDM (as per Approved Drawing/Client Spec)	IS 3896:1985 part 2 IS 1865:1991/EN1563, AISI 430,EPDM (as per Approved Drawing/Client Spec)	MTC/Internal Test Certificates of the Manufacturer	P	R	No Weld Repair on the casting is permitted
		Mechanical Properties	Major	Mechanical Test	1 per lot	-	IS 3896:1985 part 2 IS 1865:1991/EN1563 (as per Approved Drawing/Client Spec)	IS 3896:1985 part 2 IS 1865:1991/EN1563 (as per Approved Drawing/Client Spec)		P	R	
B In Process Inspection : Mechanical Component												
1	Flanges of the Valve		Major	Dimension	Sample Inspection as per ISO 2859-1 Table 1 S 2	10%	As per Approved Drawing	As per Approved Drawing	Internal Test Certificate of the Manufacturer	P	R	
3	Internals Test	Inspection	Critical	Liquid Penetration and Flaw Detection Test		10%	Liquid Penetration & Flaw Detection test	IS 14845	Final Inspection Report	P	R	
C Final Inspection and Test												
1	Complete valve	Surface Defect	Major	Visual		100%	IS14845 & As per Approved Drawing	Free from Harmful surface defects	Internal Inspection report	P	W	
2	Complete valve	Visual and Dimensional Check	Major	Measurement		100%	IS14845 & As per Approved Drawing	Face to face in accordance with IS14845	Final Inspection Report	P	W	
4	Body	Hydrostatic Pressure	Critical	Pressure Gauge and Leak tightness		100%	Appendix B of IS14845	No Leakages	Final Inspection Report	P	W	
5	Low Pressure Test		Critical	Pressure Gauge and Leak tightness		100%	Appendix B of IS14845	Air out	Final Inspection Report	P	W	
6	Post Blasting Painting - Electrostatic powder coating both inside and outside packet less body passage	Painting appearance & Thickness	Major	Visual		100%	As per Specification and as per Approved drawing	>250 microns	Final Inspection Report / Painting Batch Certificate	P	W	
7	Marking	Details of the Valve	Major	Visual		100%	IS14845	In accordance with IS14845 Clause 11.1	Final Inspection Report	P	W	

- The manufacturer should provide Body,Bonnet of DI Grade GGG50 /SG500/7 or equivalent grade as per IS 3896 -part 2,1985 and Subsequent revisions.
- If the Valve Manufacturing company is procuring casting (body,bonnet,Internals & stem) from an outside agency, then quality control is to be ensured by the valve manufacturing company by performing the quality tests at the premises of casting factory. the mill certificates,duly signed by the both is to be invariably submitted.
- Seal Ring: EPDM food grade quality and seals of NBR.
- The Valves shall be of vaccum tight and 100% leak proof.
- The Valves shall be with electrostatic powder coating both inside and outside pocket less body passage
- Copies of internal reports shall be given to L & T / TPQA for scrutiny before inspection
- All measuring instruments and testing equipments should be calibrated periodically and put up to third party inspection agency for verification
- Manufacturer shall carry out 100% inspection on final product
- Verified items may be randomly witnessed by the concerned if necessary
- A name plate with the lettering-TDWSP – RWSS is to be fixed on the valves
- A warranty certificate for 10 years in favour of respective ULB has to be given by the manufacturer of the valves.
- Legend M:Manufacturer, TPQA: Third party Quality Audit, P:Perform, W:Witness, R:Review, MTC: Material Test Certificate
- Witness point shall be 10% of each size
- All Components / Materials shall be as per approved drawing / client technical specifications

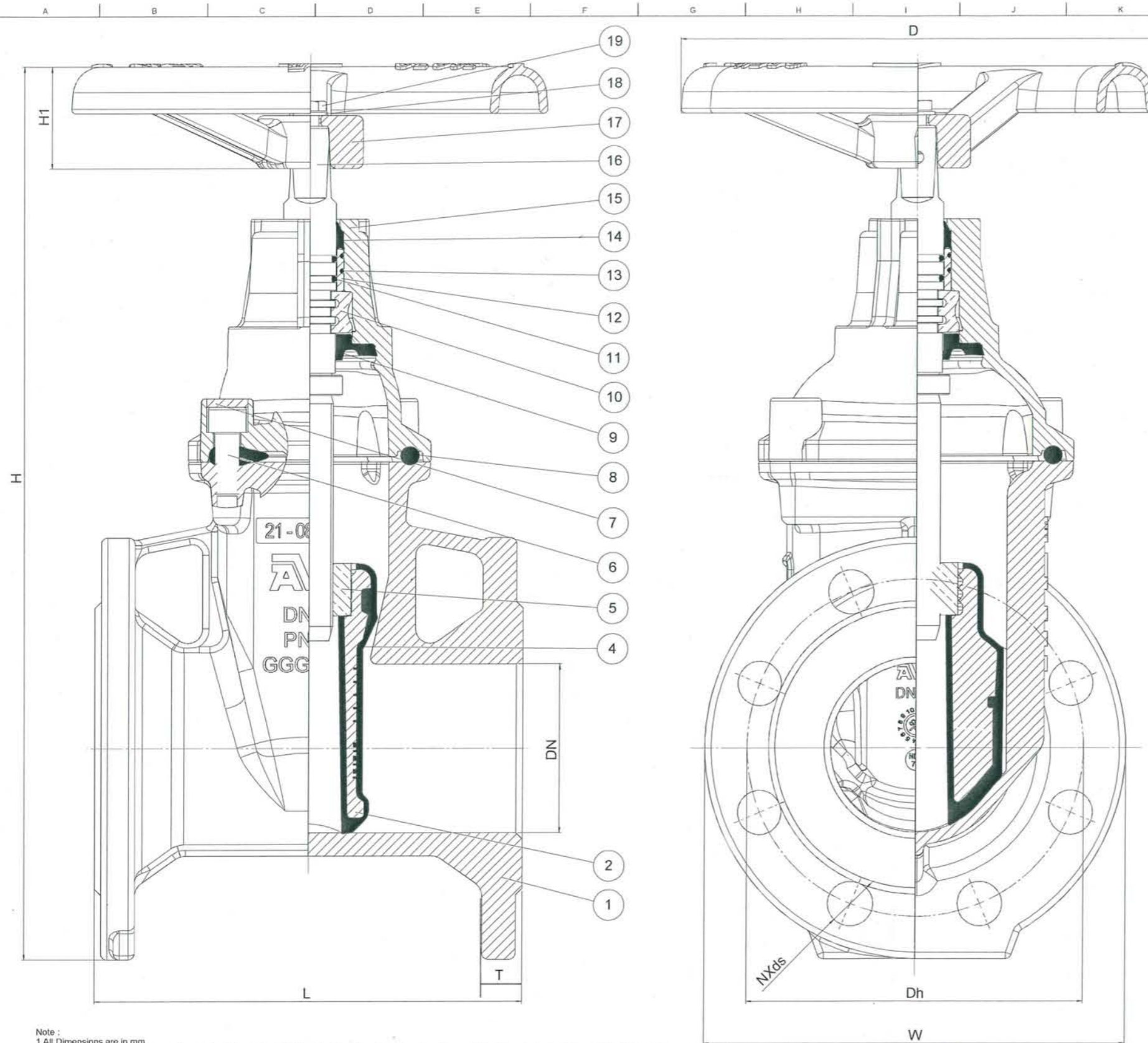


for
27/05/2014
(Muhammad Saif)

Executive Engineer
TDWSP (Grid), Division, Asifabad.

Dy. Executive Engineer
TDWSP Asifabad

Superintendent Engineer
TDWSP Nirmal



DN	Drilling	H	H1	L	W	D	Dh	N	ds	T	P.O.QTY
		MM	MM	MM	MM	MM	MM	Nos	Dia	MM	Nos
80	10/16	425	48	203	200	225	160	8	19	25	2875
100	10/16	472	52	229	220	280	180	8	19	25	490
125	10/16	528	52	254	250	280	210	8	19	25	133
150	10/16	620	53	267	285	320	240	8	23	26	598
200	10	760	56	292	340	360	295	8	23	27.5	123
250	10	891	57	330	400	500	350	12	23	29	71
300	10	995	57	356	455	500	400	12	23	31.5	144

Item NO	Description	Material	Qty
1	Body	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
2	Wedge body	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
4	Wedge rubber	EPDM/EUW	1
5	Wedge nut	Dezn. res. brass EN 12165: CW602N (CZ132)	1
6	Insex bolt	SS ISO3506; Grade A2	/
7	Hot melt	/	/
8	Bonnet gasket	EPDM/EUW	1
9	Stem seal	EPDM/EUW	1
10	Thrust collar	Dezn. res. brass EN 12165: CW602N (CZ132)	1
11	O-ring	NBR	2
12	Bearing	Nylon 6.6	1
13	O-ring	NBR	2
14	Wiper ring	NBR	1
15	Bonnet	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
16	Stem	SS EN 10088-1; (W1.4021)/ASTM A276-420	1
17	Handwheel	Grey Iron EN1561; EN-GJL-250	1
18	Washer	SS ISO3506; Grade A2	1
19	Bolt	SS ISO3506; Grade A2	1
20	Coating	Electrostatically applied powder coating RAL 5017 Min 250Micron	

Note:
 1. All Dimensions are in mm
 2. Coating: Epoxy food grade powder coating in Blue Color, RAL 5017 both inside and outside with minimum 250 microns thickness approved GSK for drinking water application.
 3. Governing STD: IS 14846 / EN1074-4
 4. Flange Drilling as per: EN1092-2 / IS 1538
 5. Hydro Testing as per: EN12266-1 / IS14846
 a) Hydro-Body Test: 1.5 Times the Pressure Rating
 b) Hydro-Seal Test: 1.1 Times the Pressure Rating
 c) Hydro Strength Test: 1.5 Times the Pressure Rating
 6. Application: Water
 7. For Flange holes diameter(ds), tolerance will measure -1.5 mm due to the coating but it will be suitable for bolt insertion.
 8. Rubber: WRAS Approved for drinking water application

Client: Rural Water Supply and Sanitation- Hyderabad
 Contractor: L&T Construction, Chennai

Note: AVK Gate Valves are designed for fully Open / fully closed application, Throttling application is not valid for AVK Gate valves/Sluice Valve. If used for throttling application our warranty will be treated as Null.



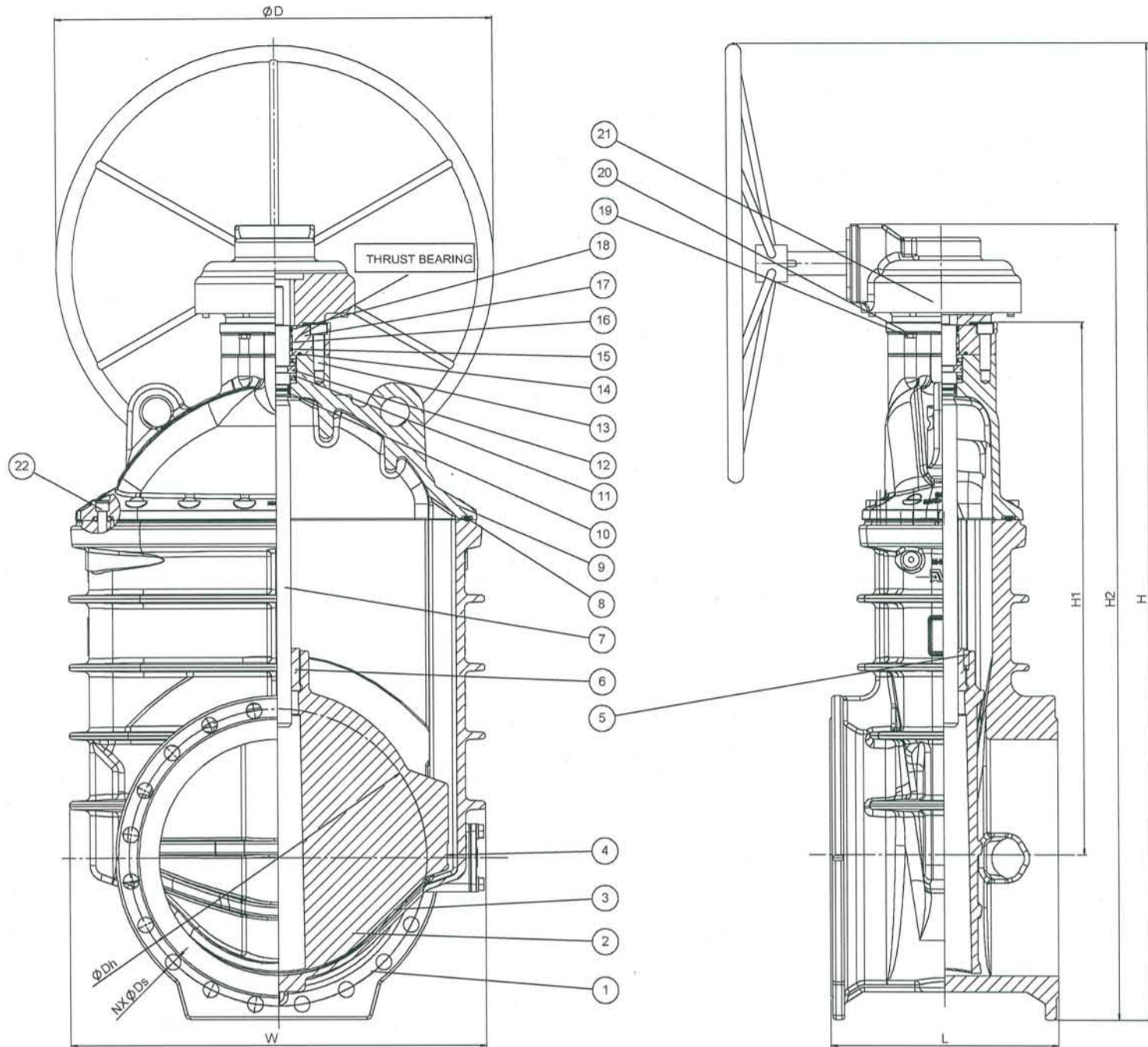
M. Reddy
 Superintendent Engineer
 TDWSP Nirmal

Dr. Jayan
 Executive Engineer
 TDWSP (Grid), Division, Asifabad
 Dy. Executive Engineer
 TDWSP Asifabad

Gate Valve with Handwheel
 Series 02
 Pressure Rating PN16 CTC
 Dimensions: DN80-DN400 Flange Drilling: IS1538 / EN1092-2 PN10
 Project: TDWSP - Komarambheem Asifabad segment
 Application: Water
 Standards: EN1074-1&2 / BS5163/ As per IS 14846
 Production tests: EN1074-1&2 / EN12266-1

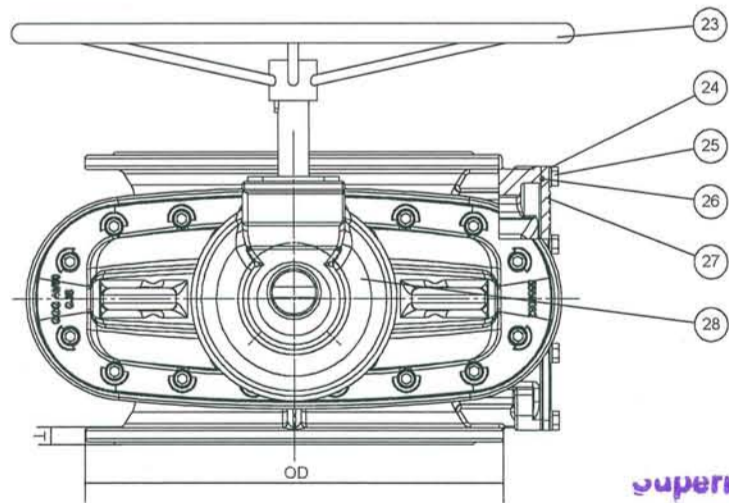
AA	8/10/2014	Ken	New drawing
Rev. No.	Date	Drawn Appr.	Changes
AA		Ken	
AA		Ken	

Drawn: Ken Scale: 1:1 Size: A/H
 Date: 2014-06-19
 Drawing No.: **02XXX202X4** Rev. No.: **AA**
 Replace for:



Note:
 1. All Dimensions are in mm
 2. Coating : Epoxy food grade powder coating in Blue Color, RAL 5017 both inside and outside with minimum 250 microns thickness approved GSK for drinking water application.
 3. Governing STD : IS 14846 / EN1074-4
 4. Flange Drilling as per : EN1092-2 / IS 1538
 5. Hydro Testing as per : EN12286-1 / IS14846
 a) Hydro-Body Test : 1.5 Times the Pressure Rating
 b) Hydro-Seal Test : 1.1 Times the Pressure Rating
 c) Hydro Strength Test : 1.5 Times the Pressure Rating
 6. Application : Water
 7. For Flange holes diameter(ds), tolerance will measure -1.5 mm due to the coating but it will be suitable for bolt insertion.
 8. Rubber: WRAS Approved for drinking water application

Client: Rural Water Supply and Sanitation- Hyderabad
 Contractor: L&T Construction, Chennai



M. S. D. S.
 Superintendent Engineer
 TDWSP Nirmal

DN	H	H1	H2	L	W	Ds	Dh	D	N	T	OD	P.O.QTY
	MM	MM	MM	MM	MM	MM	MM	MM	Nos	MM	MM	Nos
500	1966	1041	1616	457	806	28	620	800	20	47	670	29

Item No.	Description	Material	QTY.
1	Body	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
2	Wedge	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
3	Wedge Rubber	EPDM/EUW	1
4	Guide Shoe	PA6.6 black (polyamid)	1
5	Slotted Pin	SS EN 10088-1;(W1.4404)/ASTM A276-316L	1
6	Stem Nut	Dezn. res. brass EN 12165: CW602N (CZ132)	1
7	Stem	SS EN 10088-1;(W1.4021)/ASTM A276-420	1
8	Bonnet Gasket	EPDM/EUW	1
9	Bonnet	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
10	O-Ring	EPDM	2
11	Bearing	/	1
12	Thrust Washer	SS EN 10088-1;(W1.4404)/ASTM A276-316L	1
13	Bolt	SS ISO 3506; Grade A2	4
14	O-Ring	EPDM	1
15	O-Ring	EPDM	2
16	Bushing	Nylon	1
17	Gland Flange	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
18	Wiper Ring	NBR	1
19	Bolt	SS ISO 3506; Grade A2	4
20	Washer	SS ISO 3506; Grade A2	4
21	Key	SS ISO 3506; Grade A2	1
22	Bolt	SS ISO 3506; Grade A2	XX
23	Handwheel	/	1
24	Washer	SS ISO 3506; Grade A2	8
25	Bolt	SS ISO 3506; Grade A2	8
26	O-Ring	EPDM	2
27	Blanking Plate	Ductile Iron EN-GJS-500-7 to BS EN 1563	2
28	Gearbox	/	1

Gate Valve with Gear box
 Series 55
 Pressure Rating : PN16 CTC

Dimensions: DN450 - DN600 Flange Drilling : IS1538

Project : TDWSP - Komarambheem Asifabad segment

Application: Water

Standards: EN1074- 1 & 2 / as per IS14846

Production tests: EN1074- 1 & 2 / as per IS14846

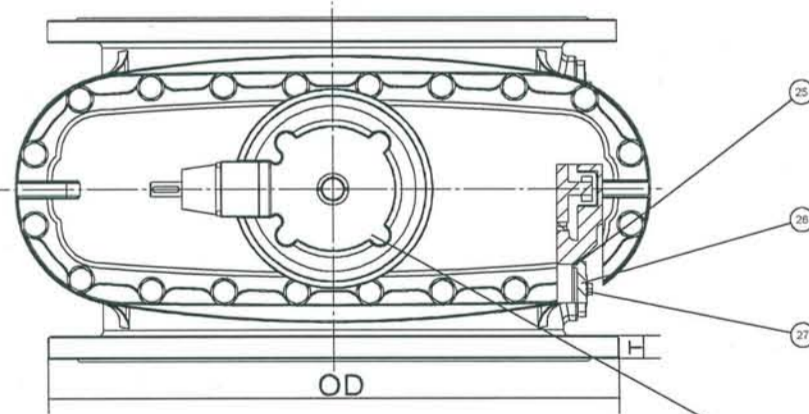
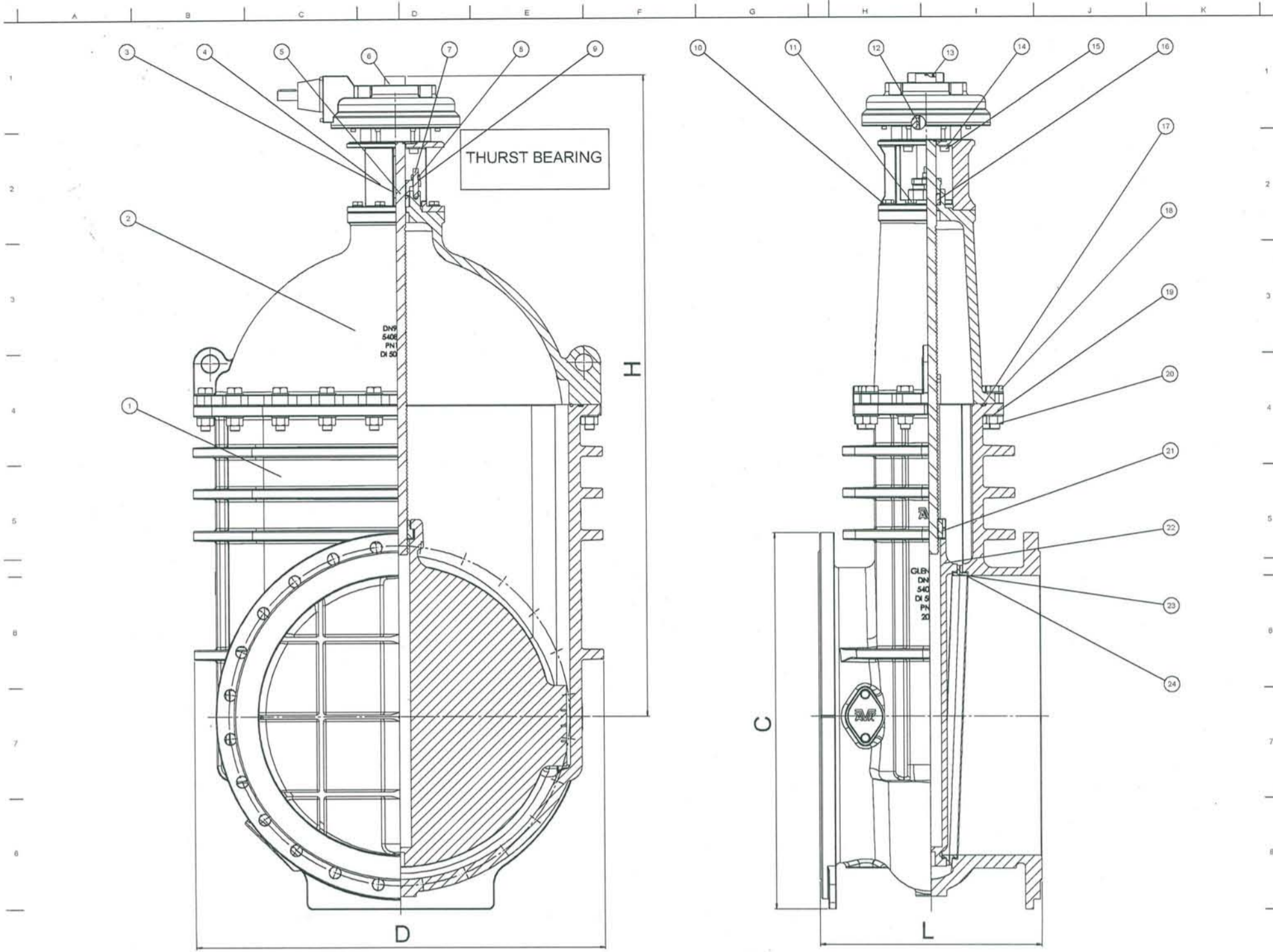
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AA	01/02/2014	Rev	New drawing
Rev. No.	Date	Drawn Appr.	Changes
Scale: 1:5	Size: A1V	Projection:	Weight: kg
Appr.: HPM	Date: 2014-06-19	Drawing No.: 55XXX660A4	Rev. No.: AA
AVK HOLDING A/S Søndergade 33 DK-8240 Galten, Denmark	AVK	Replace for: XXXXXXXXXX	



J. S. S.
 Dy. Executive Engineer
 TDWSP Asifabad

Note : AVK Gate Valves are designed for fully open and fully closed application. Throttling application is not valid for AVK Gate valves/Scour/Silence Valves. If used for throttling application our warranty will be treated as Null.



Note:

- All Dimensions are in mm
- Coating: Epoxy food grade powder coating in Blue Color, RAL 5017 both inside and outside with minimum 250 microns thickness approved GSK for drinking water application.
- Governing STD : IS 14846 / EN1074-4
- Flange Drilling as per. : EN1092-2 / IS 1538
- Hydro Testing as per. : EN12266-1 / IS14846
 - Hydro-Body Test : 1.5 Times the Pressure Rating
 - Hydro-Seal Test : 1.1 Times th Pressure Rating
 - Hydro Strength Test : 1.5 Times the Pressure Rating
- Application : Water
- For Flange holes diameter(cs), tolerance will measure -1.5 mm due to the coating but it will be suitable for bolt insertion.
- Rubber: WRAS Approved for drinking water application

Client: Rural Water Supply and Sanitation- Hyderabad
 Contractor: L&T Construction, Chennai

H / Horizontal mounting with IB Gearbox	L	C	D	OD	T	P.O.QTY
MM	MM	MM	MM	MM	MM	Nos
DN700	1756	610	910	1050	895	43.5

28	Gearbox	IB / IS Gearbox with Hand wheel
27	Hex. Bolt	A4 Stainless Steel to BS EN 10088-1:2005
26	Blanking Plate	DI EN 1563; GJS-500-7
25	O-ring	EPDM EN681-1
24	Face Ring	Al. Bronze; EN1982; CC331G
23	Seat Ring	Al. Bronze; EN1982; CC331G
22	Wedge	DI EN 1563; GJS-500-7
21	Stem Nut	Al. Bronze; EN1982; CC331G
20	Nut	A4 Stainless Steel to BS EN 10088-1:2005
19	Washer	A4 Stainless Steel to BS EN 10088-1:2005
18	Bolt	A4 Stainless Steel to BS EN 10088-1:2005
17	O-Cord	EPDM WRAS to BS EN 681-1:1996
16	Packing	PTFE WRAS to BS EN 10088-1:2005
15	Insex Bolt	A4 Stainless Steel to BS EN 10088-1:2005
14	Washer	A4 Stainless Steel to BS EN 10088-1:2005
13	Screw	A4 Stainless Steel to BS EN 10088-1:2005
12	Key	A4 Stainless Steel to BS EN 10088-1:2005
11	Bolt	A4 Stainless Steel to BS EN 10088-1:2005
10	Washer	A4 Stainless Steel to BS EN 10088-1:2005
9	Washer	A4 Stainless Steel to BS EN 10088-1:2005
8	Nut	A4 Stainless Steel to BS EN 10088-1:2005
7	Stud Bolt	A4 Stainless Steel to BS EN 10088-1:2005
6	Thrust Nut	SS EN 10088-1;(W 1.4401)
5	Stem	Stainless steel Gr 1.4057 to BS EN 10088-1:2005
4	Gland	DI EN 1563; GJS-500-7
3	Distance Piece	DI EN 1563; GJS-500-7
2	Bonnet	DI EN 1563; GJS-500-7
1	Body	DI EN 1563; GJS-500-7

Gate Valve With Gearbox
 Horizontal Valve
 Pressure Rating PN16 CTC
 Series : 54

Dimensions: DN700-900
 Project: TDWSP - Komarambheem Asifabad segment
 Application: Water
 Standards: EN1074-2
 Production tests: EN1074-2

M. Reddy
Superintendent Engineer
 TDWSP Nimal

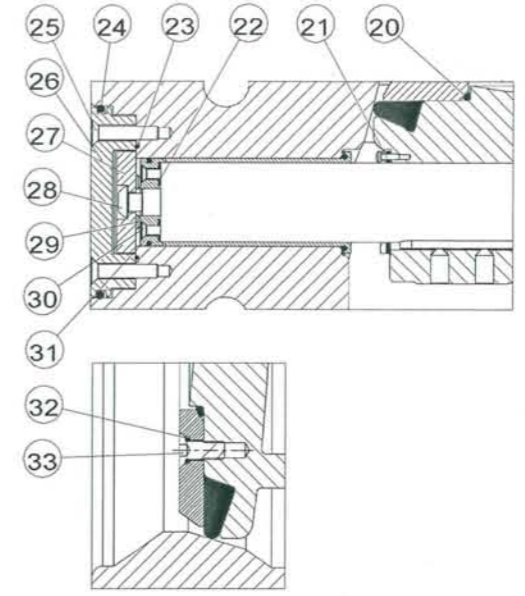
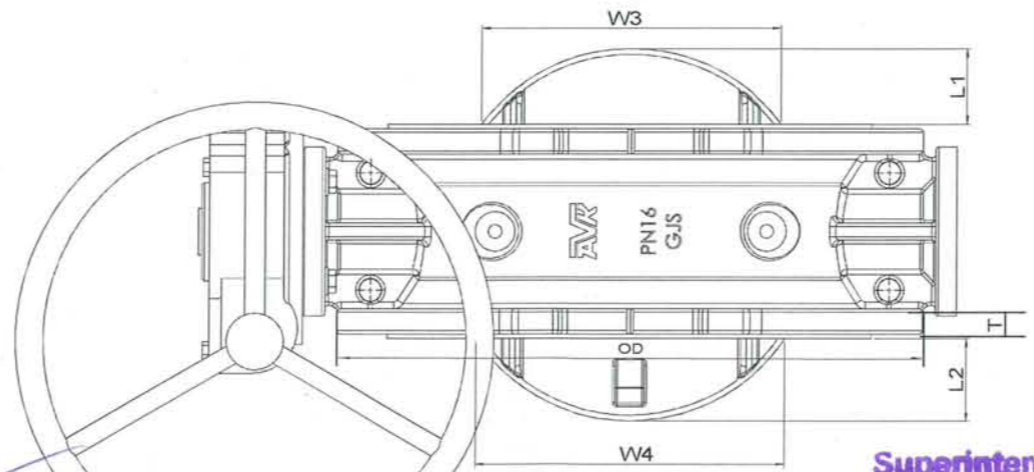
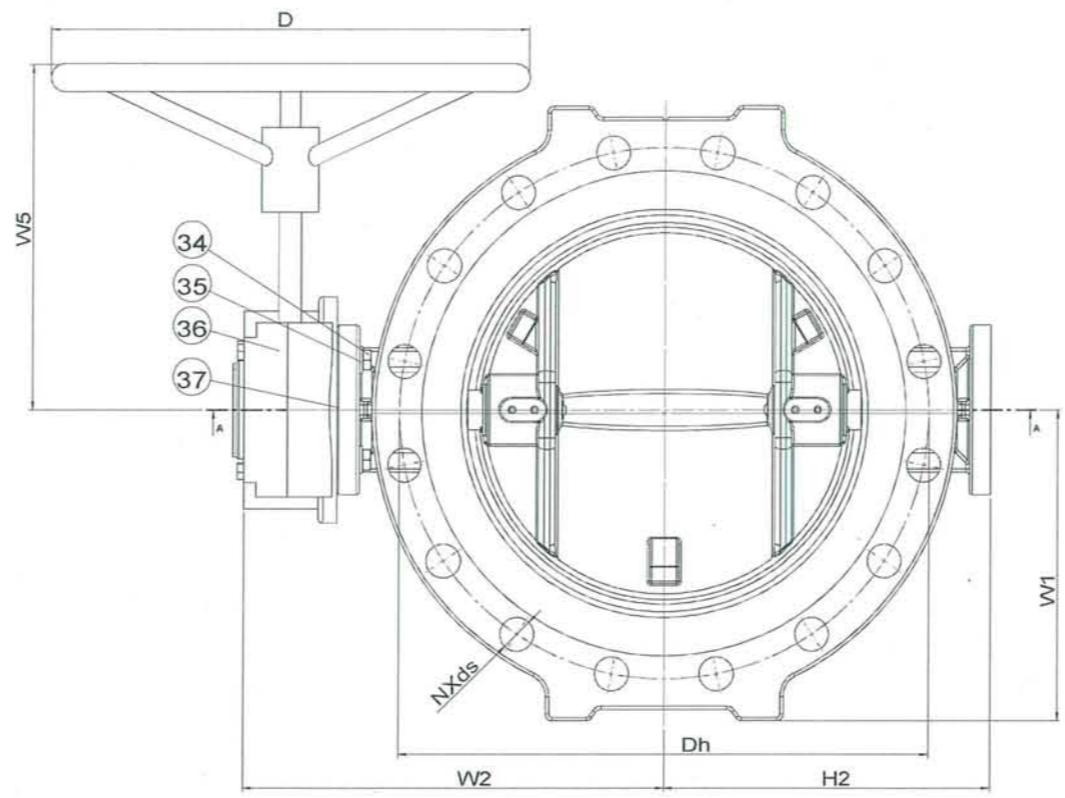
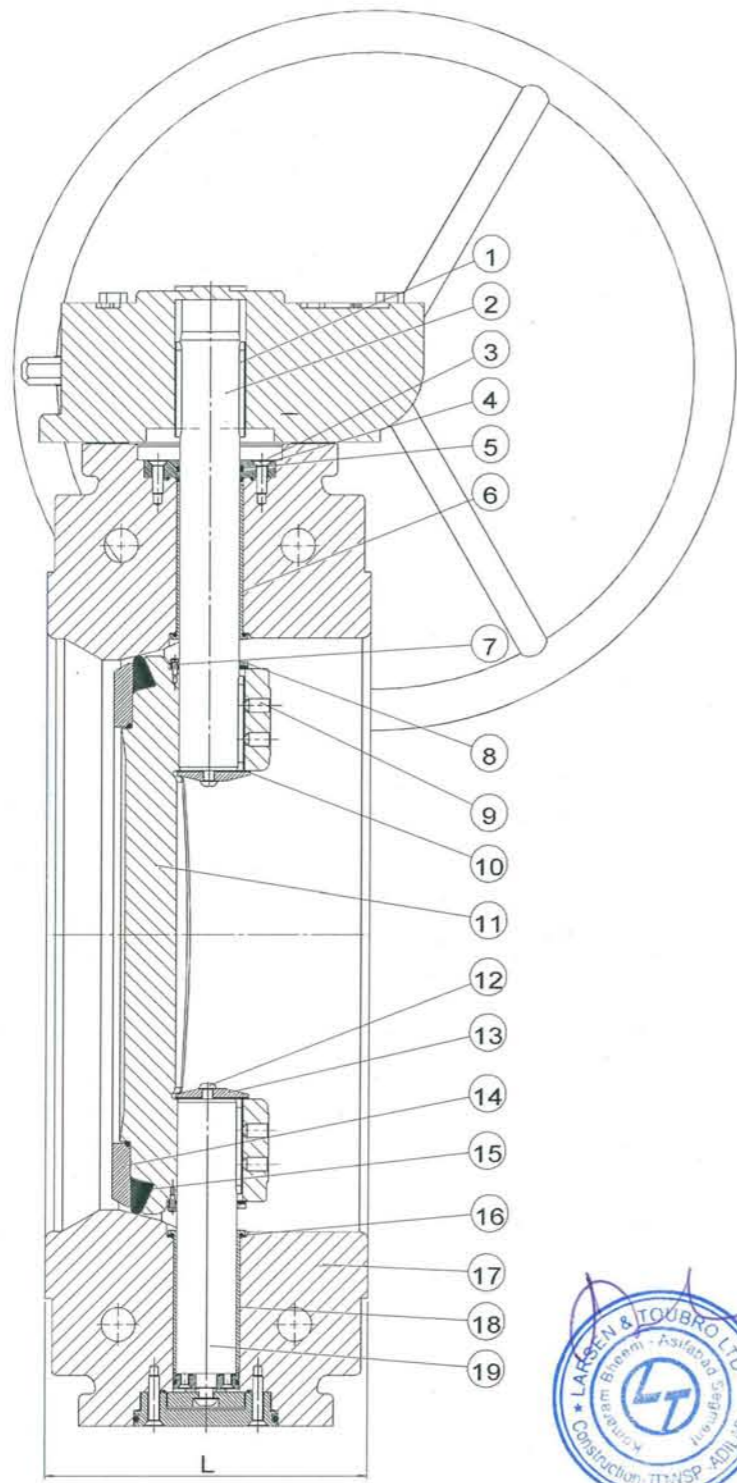
N. Jayaram
Executive Engineer
 TDWSP (Grid), Division, Asifabad

J. Jayaram
Dy. Executive Engineer
 TDWSP Asifabad



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 Scale: N.T.S. Size: A1V
 Date: 2019-02-20
 AVK HOLDING AS
 Svanborggade 23
 DK-3454 Galten, Denmark
 Drawing No.: 54XXX311101402
 Rev. No.: AA
 Replace for:

Client: Rural Water Supply and Sanitation- Hyderabad
 Contractor: L&T Construction, Chennai



ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	Key	SS ISO 3506, Grade A2	4
2	Driven Shaft	SS EN 10088-1; (W 1.4021)/A276-420	1
3	Screw	SS ISO 3506, Grade A2	4
4	Spacer	Dezn. res. brass EN 12165.CW602N (CZ132)	1
5	O-Ring	EPDM	3
6	Headed Bush	Al, Bronze; BS EN12163; CW307G	1
7	Socket Screw	SS ISO 3506, Grade A2	6
8	Cover	SS EN 10088-1; (W 1.4401)/A276-316	2
9	Set Screw	SS ISO 3506, Grade A2	4
10	Gasket	EPDM	2
11	Disc	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
12	Screw	SS ISO 3506, Grade A2	2
13	Endcover	SS EN 10088-1; (W 1.4401)/A276-316	2
14	Seat RTG.Ring	Mild Steel EP. Coated	1
15	Seal Ring	EPDM	1
16	O-Ring	EPDM	2
17	Body	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
18	Headed Bush	Al, Bronze; BS EN12163; CW307G	1
19	Non-drive Shaft	SS EN 10088-1; (W 1.4021)/A276-420	1
20	O-Ring	EPDM	1
21	Gasket	EPDM	2
22	Gasket	EPDM	1
23	O-Ring	EPDM	2
24	O-Ring	NBR	1
25	Screw	SS ISO 3506, Grade A2	4
26	End Cover	EN 10025: S235JR (S137.2)	1
27	Thrust Plate	Dezn. res. brass EN 12165.CW602N (CZ132)	1
28	Screw	SS ISO 3506, Grade A2	1
29	SCREW	SS ISO 3506, Grade A2	4
30	Screw	SS ISO 3506, Grade A2	4
31	Ring	SS EN 10088-1; (W 1.4401)/A276-316	1
32	O-Ring	EPDM	12
33	Screw	SS ISO 3506, Grade A2	12
34	Hex bolt	FZV8.8	4
35	Washer	FZV8.8	4
36	Gearbox	/	1
37	Gasket	EPDM	1

Note:
 1. All Dimensions are in mm
 2. Coating : Epoxy food grade powder coating in Blue Color, RAL 5017 both inside and outside with Minimum 250 microns thickness approved GSK for drinking water application.
 3. Governing STD : IS 13095 / EN593
 4. Flange Drilling as per : EN1092-2 / IS 1538
 5. Hydro Testing as per : EN12266-1 / IS13095
 a) Hydro-Body Test : 1.5 Times the Pressure Rating
 b) Hydro-Seat Test : 1.1 Times the Pressure Rating
 c) Hydro-Body Test : 1.5 Times the Pressure Rating
 6. Application : Water
 7. The drawing is a 3D model. The actual dimensions will measure -1.5 mm due to the coating but it will be as per the drawing.
 8. Rubber: WRAS Approved for drinking water application

mmedel
 Superintendent Engineer
 TDWSP Nirmal



desha
 Dy. Executive Engineer
 TDWSP Asifabad

Executive Engineer
 TDWSP (Grid) Division, Asifabad

Finished Item no.	DN	D	L	L1	W1	W2	W3	W4	W5	N x ds	Dh	OD	T	P.O.QTY		
	MM	MM	MM	MM	MM	MM	MM	MM	MM	Nos x Dia	MM	MM	MM	Nos		
7560350204018014	350	250	190	70	76	290	272	369	271	279	276	16 x 23	460	505	33	101
7560400204018014	400	400	216	82	89	321	302	403	313	322	306	16 x 28	515	565	34	42
7560450204018014	450	400	222	102	109	358	332	440	365	374	306	20 x 28	565	615	36	5
7560500204018014	500	400	229	124	130	386	338	468	420	427	306	20 x 28	620	670	47	30
7560600204018014	600	500	267	155	161	445	393	536	514	521	416	20 x 31	725	780	41	55

Butterfly Valve
 Series S756/2
 Pressure Rating : PN16 CTC
 Flange drilling : IS1538/EN1092-2 PN10

Dimensions: DN200-600

Project : TDWSP – Komarambheem Asifabad segment

Application: Water

Standards: IS13095:1991/ EN593

Production tests: IS 13095:1991 / EN1074-1&2

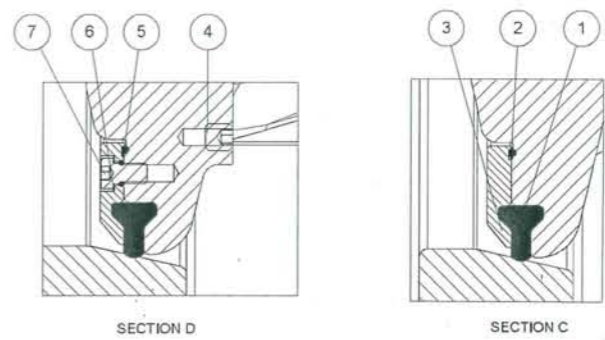
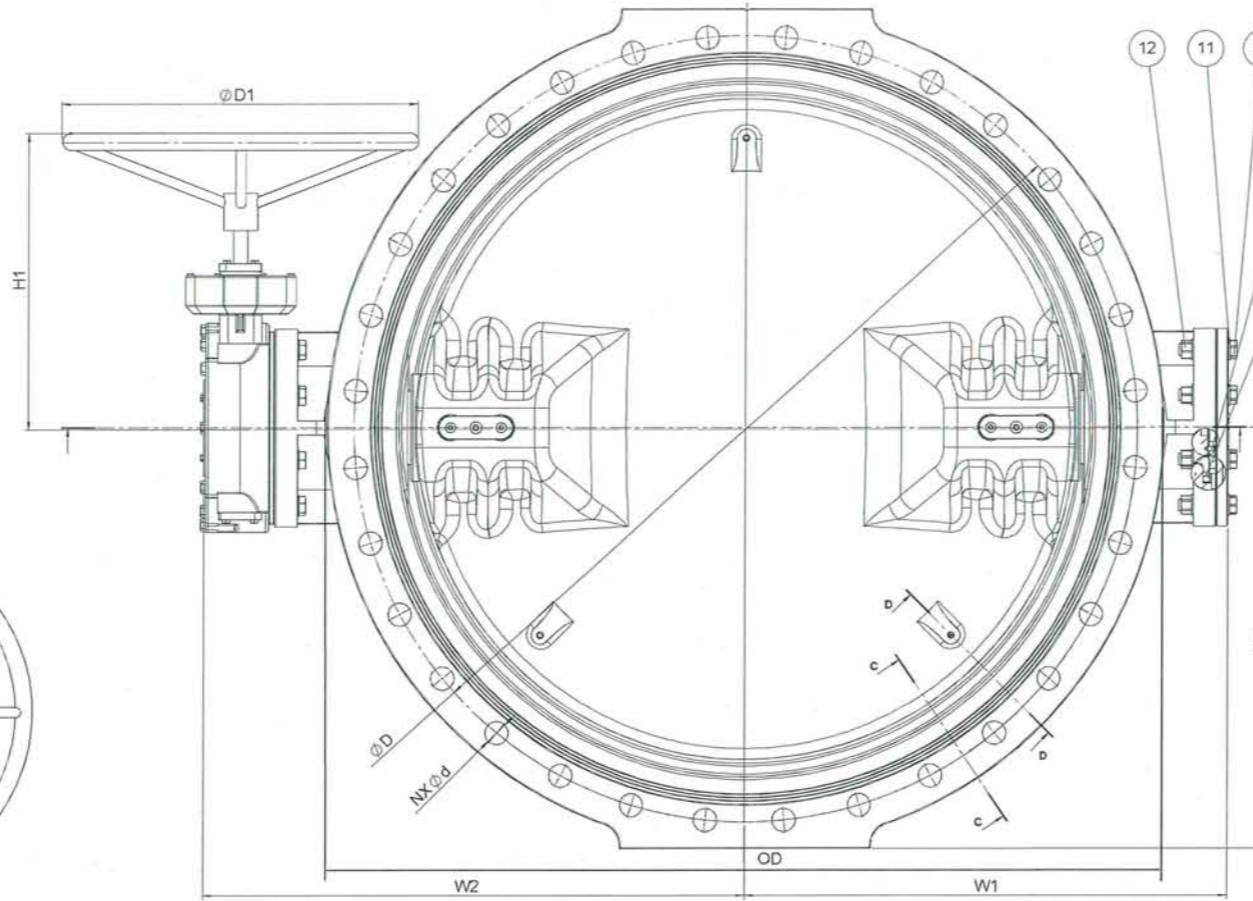
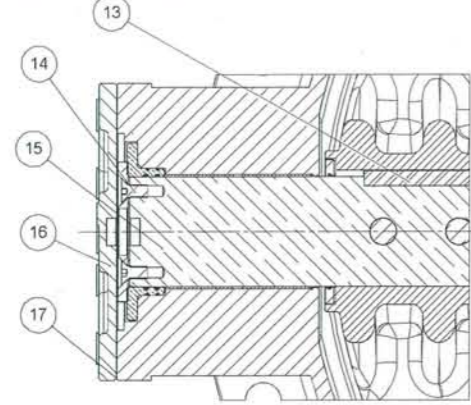
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Drawn: Sky Scale: 1:5 Size: A4 Projection: 1st Angle Weight: kg
 Appr: Date: 2011.11.07
 Drawing No.: 756XXX204018014 Rev. No.: AA
 AVK HOLDINGS Bangalore 55
 AVK India Pvt. Ltd. Chennai
 Replace for:



Note : AVK Butterfly Valves are designed for fully open / close application - Throttling application is not recommended - If you used for throttling application our standard warranty will be considered as Null.

Client: Rural Water Supply and Sanitation- Hyderabad
 Contractor: L&T Construction, Chennai



Item no.	Description	Material	QTY.
1	Disc seal	EPDM	1
2	O-ring	EPDM	1
3	Seal retaining ring	Mild Steel Q235	1
4	Screw	SS ISO 3506; Grade A2	3
5	O-ring	EPDM	XX
6	Washer	SS ISO 3506; Grade A2	XX
7	Screw	SS ISO 3506; Grade A2	XX
8	Screw	SS ISO 3506; Grade A2	X
9	Screw	SS ISO 3506; Grade A2	4
10	Bolt	SS ISO 3506; Grade A2	8
11	Washer	SS ISO 3506; Grade A2	16
12	Nut	SS ISO 3506; Grade A2	8
13	Key	SS EN 10088-1;(W1.4021)/ASTM A276-420	2
14	Screw	SS ISO 3506; Grade A2	2
15	Stub shaft	SS EN 10088-1;(W1.4021)/ASTM A276-420	1
16	End plate	Ductile iron EN-GJS-500-7 to BS EN1563	1
17	Gasket	EPDM	2
18	Handwheel	/	1
19	Gearbox	/	1
20	Key	SS ISO 3506; Grade A2	2
21	Drive shaft	SS EN 10088-1;(W1.4021)/ASTM A276-420	1
22	Seal housing	Al.Bronze;EN1982 CC331G (AB1)	2
23	O-ring	EPDM	4
24	O-ring	EPDM	8
25	Self-lubricating bearing	/	4
26	Disc cover	SS EN 10088-1;(W1.4021)/ASTM A276-420	2
27	Disc cover gasket	EPDM	2
28	O-ring	EPDM	8
29	Drive pin	SS EN 10088-1;(W1.4021)/ASTM A276-420	4
30	O-ring	EPDM	2
31	Plug	Ductile iron or Steel	2
32	Body	Ductile iron EN-GJS-500-7 to BS EN1563	1
34	Security Plate	SS EN 10088-1;(W1.4301)/ASTM A276-304	2
35	Screw	SS ISO 3506; Grade A2	2
36	Screw	SS ISO 3506; Grade A2	4
37	Bolt	SS ISO 3506; Grade A2	8
38	Washer	Zinc Plated Mild Steel (FZV)	8
39	Axial Bearing	Al.Bronze;EN1982 CC331G (AB1)	1

Handwritten signature
 Superintendent Engineer
 TDWSP Normal



Butterfly Valve with Gearbox & Handwheel

Series : S756/2
 Pressure Rating PN16 CTC
 Flange Drilling Standard : EN1092-2 PN10/ IS1538 / IS9523
 Dimensions: DN700 - DN1200
 Project : TDWSP - Komarambheem Asifabad segment
 Application: Water
 Standards: EN1074-1 & 2 / EN593 As per IS13095

DN	L	L1	L2	H1	H2	W1	W2	W3	W4	D1	D2	D	d	N	OD	P.O.QTY
	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	Dia	Nos	MM	Nos
800	318	232	238	457	513	635	711	718	724	600	43	950	34	24	1015	12
900	330	276	282	499	563	705	791	822	827	700	46.5	1050	34	28	1115	7

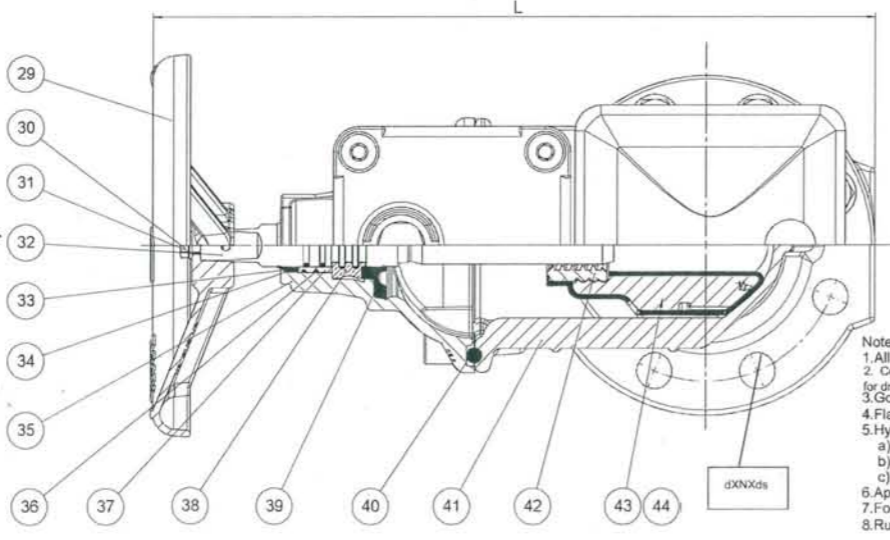
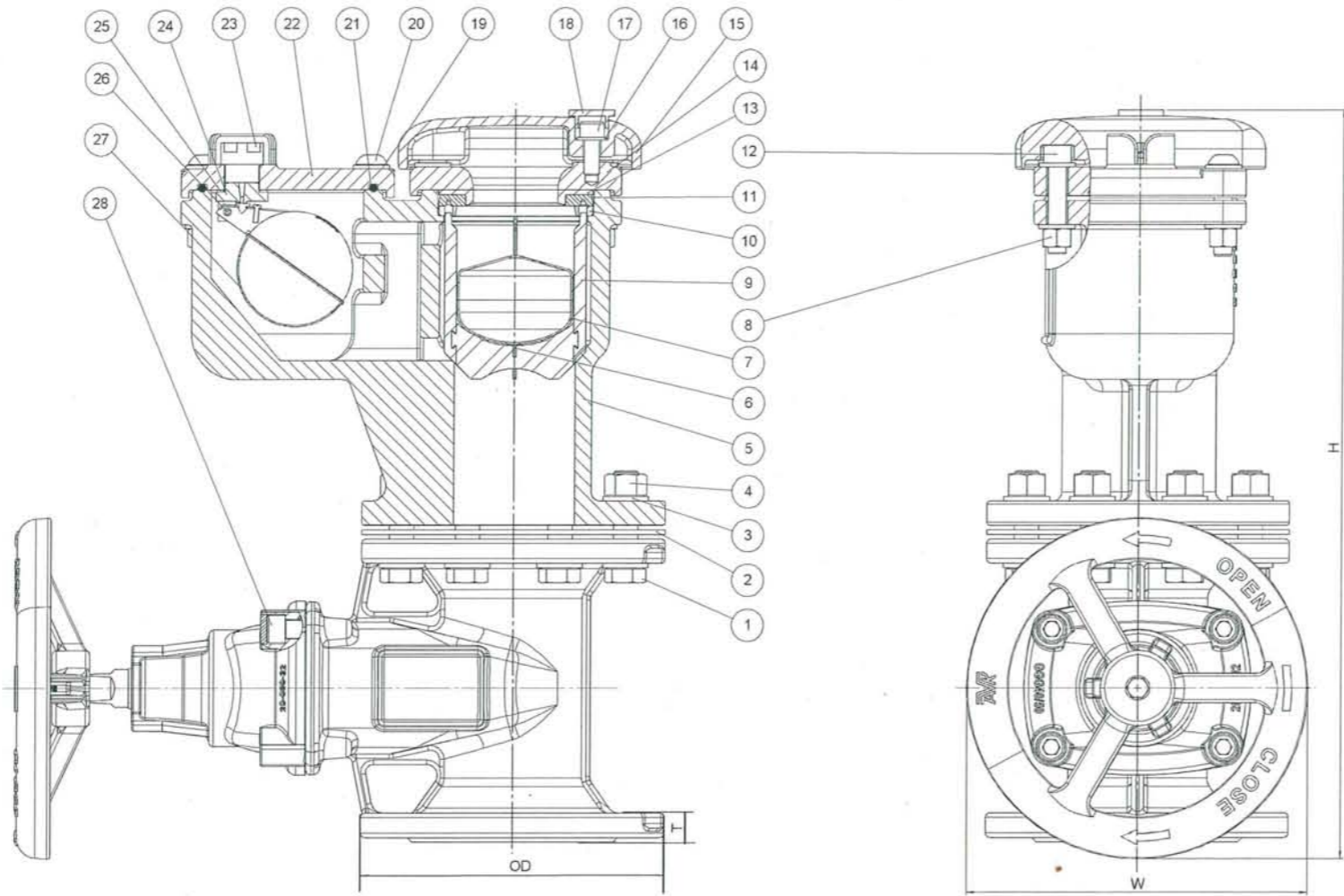
- Note :
- All Dimensions are in mm
 - Coating : Epoxy food grade powder coating in Blue Color, RAL 5017 both inside and outside with Minimum 250 microns thickness approved GSK for drinking water application.
 - Governing STD : IS 13095 / EN593
 - Flange Drilling as per : EN1092-2 / IS 1538
 - Hydro Testing as per : EN12266-1 / IS13095
 - Application :
 - a) Hydro-Body Test : 1.5 Times the Pressure Rating
 - b) Hydro-Seal Test : 1.1 Times th Pressure Rating
 - c) Hydro Strength Test : 1.5 Times the Pressure Rating
 - Water
 - For Flange holes diameter(ds), tolerance will measure -1.5 mm due to the coating but it will be suitable for bolt insertion.
 - Rubber: WRAS Approved for drinking water application



Note : AVK Butterfly Valves are designed for fully open / close application - Throttling application is not recommended - if you used for throttling application our standard warranty will be considered as Null.

Handwritten signature
 Executive Engineer
 TDWSP (Grid), Division, Asifabad
 Dy. Executive Engineer
 TDWSP Asifabad

Production tests: EN1074-1 & 2 / As per IS13095
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 Drawn: Ken Scale: 1:8 Date: 2014-04-23
 Projection: 1st Angle Weight: kg
 Appr: [Signature] Drawing No.: 756XXX204018014 Rev. No.: AA
 AVK HOLLING A/S Søndergade 33 DK-8340 Gadsdal, Denmark
 Replace for:



DN	H	L	W	d	N	ds	OD	T	Joint Fastener	P.O. QTY
MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	Nos
50	504	352	280	19	4	125	165	16	M16	4459
80	517	425	280	19	8	160	200	24	M16	395
100	555	473	320	19	8	180	220	25	M16	391
150	658	619	360	23	8	240	285	26	M20	318
200	740	759	500	23	8	295	340	27.5	M20	48

Note :
 1. All Dimensions are in mm
 2. Coating : Epoxy food grade powder coating in Blue Color, RAL 5017 both inside and outside with minimum 250 microns thickness approved GSK for drinking water application.
 3. Governing STD : IS 14845 / EN1074-4
 4. Flange Drilling as per : EN1092-2 / IS 1538/ IS 9523
 5. Hydro Testing as per : EN12266-1 / IS14945
 a) Hydro-Body Test : 1.5 Times the Pressure Rating
 b) Hydro-Seat Test : 1.1 Times the Pressure Rating
 c) Hydro Strength Test : 1.5 Times the Pressure Rating
 6. Application : Water
 7. For Flange holes diameter (ds), tolerance will measure -1.5 mm due to the coating but it will be suitable for full operation.
 8. Rubber : WRAS Approved for drinking water application.

Executive Engineer
 Client: Rural Water Supply and Sanitation - Hyderabad
 TDWSP (Gnd) Division, Asifabad
 Contractor: L & T Construction, Chennai

M. S. S.
 Superintendent Engineer
 TDWSP Nirmal

Item No.	Description	Material	QTY.
1	Bolt	SS ISO 3506; Grade A2	X
2	Gasket	EPDM	1
3	Washer	SS ISO 3506; Grade A2	XX
4	Nut	SS ISO 3506; Grade A2	X
5	Body	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
6	Float Guide Top	ASTM A276-304L	1
7	Large Orifice Float	ASTM A276-304L	1
8	Nut	A4 Delta Seal GZ	8
9	Float Guide Bottom	ASTM A276-304L	1
10	Guide Ring	ASTM A276-304L	1
11	Seal Ring	EPDM	1
12	Screw	SS ISO 3506; Grade A2	4
13	Seat Ring	ASTM A276-304L	1
14	Bonnet	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
15	Cowl	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
16	Washer	SS ISO 3506; Grade A2	1
17	Screw	SS ISO 3506; Grade A2	1
18	Plug	Plastic	1
19	Washer	SS ISO 3506; Grade A2	16
20	Screw	SS ISO 3506; Grade A2	4
21	O-Ring	EPDM	1
22	Bonnet	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
23	Orifice Cover	Nylon	1
24	Orifice Bracket	Nylon	1
25	Gasket	EPDM	1
26	Grooved Pin	SS EN 10088-1;(W1.4301)/ASTM A276-304	1
27	Small Orifice Float	ASTM A276-304L	4
28	Screw	SS ISO 3506; Grade A2	X
29	Handwheel	Grey iron EN 1561; EN-GJL-250	1
30	Bolt	SS ISO 3506; Grade A2	1
31	Washer	SS ISO 3506; Grade A2	1
32	Stem	SS EN 10088-1;(W1.4201)/ASTM A276-420	1
33	Wiper Ring	NBR	1
34	O-Ring	NBR	2
35	Bonnet	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
36	O-Ring	NBR	2
37	Bearing	Nylon	1
38	Thrust Collar	Dezn.res.brass EN 12165;CW602N (CZ132)	2
39	Stem Seal	EPDM/EUW	1
40	Gasket	EPDM/EUW	1
41	Body	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
42	Wedge Nut	Dezn.res.brass EN 12165;CW602N (CZ132)	1
43	Wedge Core	Ductile Iron EN-GJS-500-7 to BS EN 1563	1
44	Wedge Rubber	EPDM/EUW	1
45	Coating	Electrostatically applied powder coating RAL 5017 Blue	Min. 250 Micron

Series :S851 Air valve with S02 Isolating gate Valve
 Pressure Rating PN16
 Dimensions: DN50 - DN200
 Project : TDWSP - Komarambheem Asifabad segment
 Application: Water Flange Drilling Standard : as per IS1538 / IS 9523 / EN1092-2
 Standards: EN1074-4 / IS14845 / as per IS 14846
 Production tests: EN1074-4 / IS14845 / as per IS 14846

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Drawn: Ken	Scale: 1:2	Size: A1H	Projector:	Weight:	kg
Appr: NRI	Date: 12/7/2015		Drawing No.:	Rev. No.:	
AVK HOLDING A/S Sondergade 38 DK-8450 Galten, Denmark	AVK AVK Holding A/S Sondergade 38 DK-8450 Galten, Denmark		851XXX48 & 02XXX20	AA	Replace for: XXXXXX:XXXX



J. S. S.
 Dy. Executive Engineer
 TDWSP Asifabad