



**KERALA WATER AUTHORITY
P.H.CIRCLE, KOLLAM**

No.KWA/PHC/Q/DB5-2277/16/part 1 (KIIFB-phase II)

Dated: 18/08/2020

From

The Superintending Engineer

To

M/s CIPET(IPT)
Department of Chemicals & Petrochemicals,
Ministry of Chemicals and Fertilizers, Govt of India,
Hil Colony, Edayar Road, Pathalam,
Udyogamandal PO, Kochi-683501

Sub:- KIIFB-Augmentation of WSS to Kollam Corporation-Phase II- Package-I-
Laying Raw water pumping main with 1219mm, 12.5mm thick MS –
pipe for a length of 16035 mtrs & 10mm thick MS pipe for a length of
12095 meters from intake well at Njankadavu to WTP at Vasoorichira-
Inspection of 200 mm dia Kinetic Air Valve & 700m CI D/F Sluice
Valves -reg

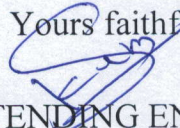
Ref:- 1.This office Work Agt .No 04/2018-19 /SE/Q dtd.02.06.2018
2. Request received from M/s Koya & Company Construction Ltd
Dated 10.08.2020
3. KWA/HO/SP-440/2017/TPI dt 02/07/2020 of Managing
Director, KWA, TVM

M/s Koya & Company Construction Ltd., the selected contractor of the above work has informed that 9 Nos of 700m CI D/F Sluice Valves and 31 Nos of 200 mm dia Kinetic Air Valves which are required for the above work is ready for inspection at the factory site of M/s Super Valve Manufacturing Co.at Vivekananda Industrial Estate, Bakultala, Howrah, West Bengal and requested for the pre-delivery testing of Valves as per the QAP & NIT condition. As per the order vide ref (3) You are requested to conduct pre delivery Third party inspection immediately .

The inspection date shall be fixed in consultation with the contractor M/s Koya & Company Construction Ltd, Hyderabad. The test report shall be forwarded to this office after inspection.

Acc: Approved QAP

Yours faithfully,


SUPERINTENDING ENGINEER

Copy to 1. M/s Super Valve Manufacturing at Vivekananda Industrial Estate,
Bakultala, Howrah, West Bengal

e-mail : sephckwakollam@gmail.com
www.kwa.kerala.gov.in

Tel : 0474-2745293
Fax : 0474-2748823



**KERALA WATER AUTHORITY
P.H.CIRCLE, KOLLAM**

No.KWA/PHC/Q/D5-2277/16(AMRUT Part -I KIIFB Phase-II)

Dated :27-01-2020

From
The Superintending Engineer

To
The Executive Engineer
Project Division,
Kollam.

Sir,

Sub: KIIFB 2016-17 Augmentation of WSS to Kollam Corporation Phase-II-Package-I-
Laying raw water pumping main -QAP and General arrangement drawing
for Sluice Valve and Air Valve – Sanction-reg

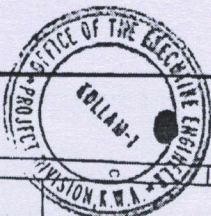
- Ref:- 1. That office letter of even No. dt . 24/08/2019, 04/01/2020 and 23/01/2020
2. This office letter even No .dt 4/10/19 and 21/01/2020
3. Letter No .KCCL/KWA-PH-Kollam /prjt-Exe/082/19-20 dt.23/01/2020 of the
contractor.

Kind attention is invited to the above references. The QAP of 700 mm Sluice Valve for
scour arrangement with pressure rating PN2 is hereby sanctioned with no extra cost based on
ref.(1) dated 23/01/2020 and ref(3).Also sanction is hereby provided for 200mm DI Air valves
instead of CI Air valves without additional cost as mentioned in ref (1) dated 24/08/2019.Hence
you are hereby directed to take further necessary steps in this regard..

ACC:-QAP

Yours faithfully,

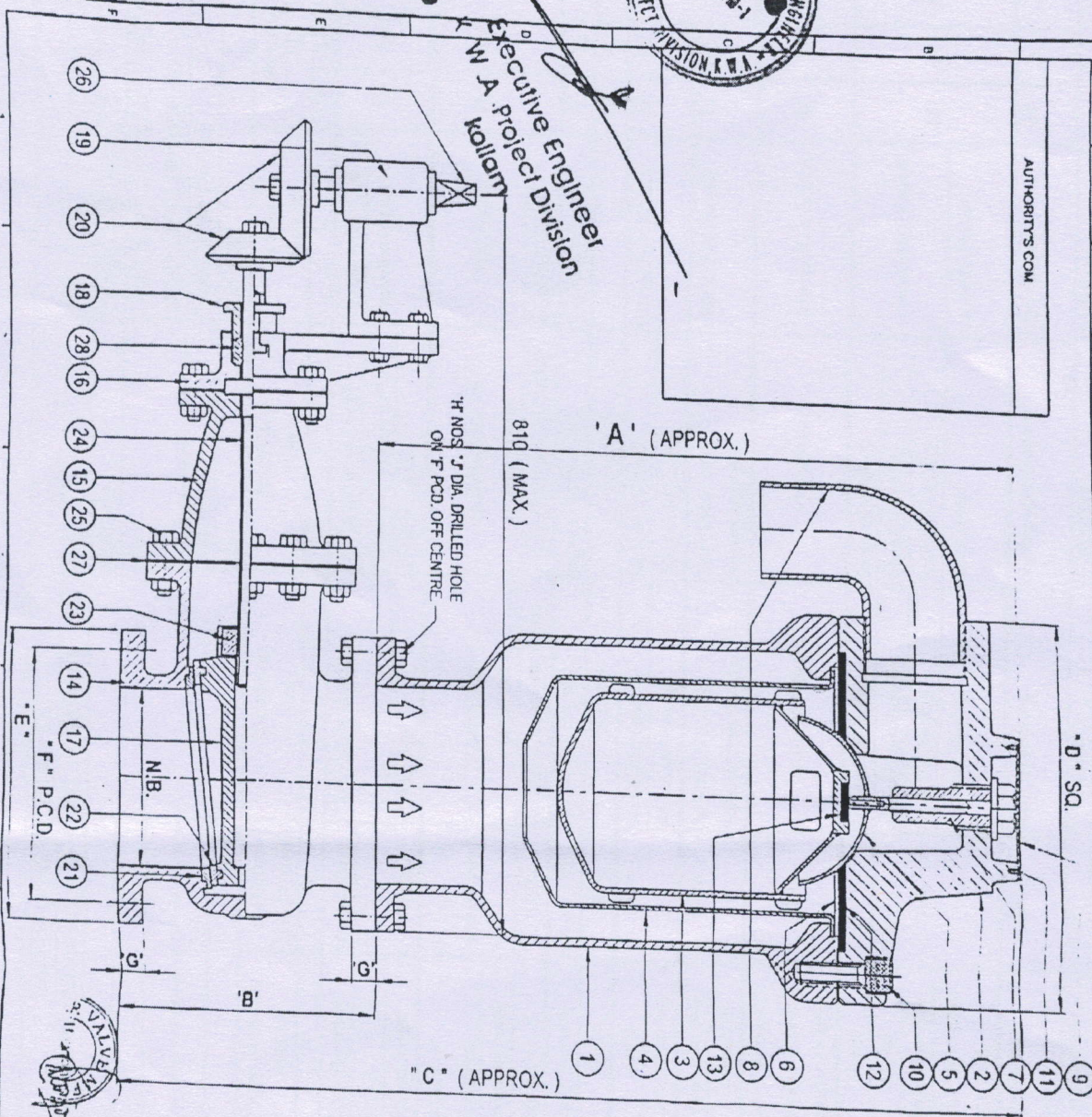

Superintending Engineer



Executive Engineer
W.A. Project Division
Kollam

SIZE	RATING	FACE TO TOP OF AIR VALVE	FACE TO FACE OF SLUICE VALVE	OVERALL HEIGHT	WIDTH X BREDTH	O.D.	P.C.D.	THICKNESS	NO. OF HOLES	HOSE DIA.	REC'D
NB	PN	A	B	C	D	E	F	G	H	J	QTY
200	PN-1.6	440	292	735	310	340	295	24.5	8	23	SET
											25

AUTHORITY'S COM



BILL OF MATERIALS											
ISOLATING SLUICE VALVE											
AIR VALVE											
Sl. No	Comments	NO	DESCRIPTION	UNIT	QTY	REMARKS	Sl. No	Comments	NO	DESCRIPTION	UNIT
01	BODY FOR SLUICE VALVE	1	DUCTILE IRON, GGG 50 / 15 G IRON IS 1055 GRADE	KG	1		01	COVER	1	DUCTILE IRON, GGG 50 / 15 G IRON IS 1055 GRADE	KG
02	COVER	1	DUCTILE IRON, GGG 50 / 15 G IRON IS 1055 GRADE	KG	1		02	FLUID WITH EXTENSIVE RIB	1	STAINLESS STEEL, AISI 304	KG
03	FLUID WITH EXTENSIVE RIB	1	STAINLESS STEEL, AISI 304	KG	1		03	FLUID GEAR	1	STAINLESS STEEL, AISI 304	KG
04	FLUID GEAR	1	STAINLESS STEEL, AISI 304	KG	1		04	JOINT SUPPORT RING	1	STAINLESS STEEL, AISI 304	KG
05	JOINT SUPPORT RING	1	STAINLESS STEEL, AISI 304	KG	1		05	LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
06	LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		06	ARMED PIPE	1	DUCTILE IRON, GGG 50 / 15 G IRON IS 1055 GRADE	KG
07	ARMED PIPE	1	DUCTILE IRON, GGG 50 / 15 G IRON IS 1055 GRADE	KG	1		07	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
08	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		08	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
09	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		09	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
10	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		10	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
11	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		11	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
12	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		12	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
13	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		13	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
14	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		14	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
15	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		15	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
16	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		16	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
17	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		17	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
18	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		18	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
19	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		19	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
20	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		20	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
21	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		21	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
22	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		22	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
23	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		23	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
24	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		24	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
25	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		25	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
26	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		26	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
27	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		27	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG
28	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG	1		28	COVER FOR LEAD SCREW	1	STAINLESS STEEL, AISI 304	KG

SUPER VALVE MANUFACTURING CO

28/11/21, Narayana Dada Road, Kollam, Kerala-691 001

200 MM. DIA. DUCTILE IRON, SINGLE CHAMBER FLANGE END, TRIPLE ACTION, AUTOMATIC, DUAL JET AIR VALVE (AMPER PROOF) AS PER IS 1055 GRADE PN-1.6 MPa RATING FITTED WITH DUCTILE IRON ISOLATING SLUICE VALVE.

MANUFACTURE'S REF: 5 Haza, P Haza, NTS SUPER, SVAC-159, 0110

CUSTOMER'S REF: MIS KOYA & COMPANY CONSTRUCTION LTD

PROJECT: KIJIB KWA KOLLAM SITE

SUPPLIER: MIS SUPER VALVE MFG. CO.

DATE: 28/11/21

NOTES: 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. 2. TOLERANCE SHALL BE CONFORMING AS PER RELEVANT SPECIFICATION. 3. THE FOLLOWING WARNING SHALL BE CONSIDERED ON THE VALVE BODY: a) Handling with care b) See chapter 10 Pressure Rating

VALVE DETAILS: VALVE: SINGLE CHAMBER AIR VALVE, RATING: PN-1.6 MPa, TYPE: DOUBLE ORIFICE, SERVICE: WATER, END FACE: FLAT FACED, BASIC MATL: DUCTILE IRON / S G IRON, TRIM MATL: NITRILE RUBBER

SUPER VALVE MFG. CO.

29/2/3/1, NARASINGHA DUTTA ROAD, HOWRAH-711101, W.B.

QUALITY ASSURANCE PLAN

M/S KOYA & COMPANY CONSTRUCTION LTD.

KIIFB KWA Kollam Site

M/S SUPER VALVE MFG. CO.

Client	Project	Supplier	QAP No.	Item	SVMC/QAP/150/19-20
					CAST IRON D/F SLUICE VALVE
					SPUR GEAR OPERATED
					SVMC/154 REV-1
					700 MM

Sl.No.	Component	Characteristic of Check	Category	Type of Check/Method	Extend of Check/Sample	Reference Doc	Acceptance Norm	Format of Record	Agency		
									P	W	V
1	Body Bonet, Wedge Gland, Stuffing box Gear Box etc.	Physical Properties Surface Dimensional	4	UTS, Hardness Visual Measurement	One per Heat 100%	C.I. To IS210 Gr.FG260 Measurement	8	Manufactures's T.C. Inspection Report	M	M	A
1.1	Spindle	Physical Properties	Major	UTS, % of Elongation	one per Batch	IS:6603(12 Cr 12) (AISI : 410)	IS:6603(12 Cr 12) (AISI : 410)	Test Report	M	M	A
1.2		Chemical properties		Major elements	100%	Approved Drawing/IS:14846					
1.3		Dimensional		Major elements	one per Batch	Bronze IS:318 LTB2					
1.4		Chemical properties		Major elements	100%	No defect					
1.5	Seat Ring, Stem Nut Bolts & Nuts	Surface defect	Major	Visual	100%	No defect	No harmful defect	Inspection Report	M	M	A
1.6	Inprocess inspection All Component	Surface defect	Major	Visual	100%	No harmful defect					
1.7	Assembly	Dimensional	Major	Measurements	100%	Approved Drawing					
1.8	Internal Testing	Overall dimension performance(O &C)	Major	Measurements	100%	Approved Drawing					
1.9	Painting&Marking As per Relev Stand	Leakage Test & Operational Test	Critical	Hyd. Pressure test Body(for 5 mints.) Seat(for 2 mints)	100%	Approved Drawing	No Leakage	Internal Insp. Report	M	M	A
1.10	Final Inspection	Surface defect& Appearance Operational	Major	Visual	10%	Relevant Specification					
1.11		Dimensional	Major	Visual	10%	Relevant Specification					
1.12		Leakage Test	Critical	Hyd. Pressure test body , seat	100%	Approved Drawing					
1.13	Painting&Marking As per Relev Stand	Appearance&Identification	Major	Appearance & Visual	100%	Approved Drawing	Painting specifications	Store Record	M	...	...
1.14											
1.15											
1.16											

Note 1. Manufacturer's raw material test certificate will be reviewed by the third party inspection agency and dimensions check & Hydrostatic test will be done by the third party inspection agency as per the ordering specification.

2. After final inspection client / clients inspection agency will issue inspection clearance certificate and release the material for painting

3. The Valve shall be tested for a test pressure of PN 20 at 2 Mpa for 5 min body and seat

Prepared by

Checked by

Approved by

Supervising Engineer

Public Health Circle

Kerala Water Authority

Kollam

Executive Engineer

Project Division

K W A Kollam

SUPER VALVE MFG. CO.

29/2/3/1, NARASINGHA DUTTA ROAD, HOWRAH-711101, W.B.

QUALITY ASSURANCE PLAN

Client M/S KOYA & COMPANY CONSTRUCTION LTD.

Project KIIFB KWA Kollam Site

Supplier M/S SUPER VALVE MFG. CO.

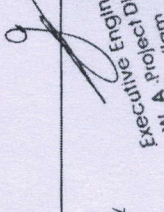
QUALITY ASSURANCE PLAN											QAP No.			SVMC/QAP/155/19-20		
Client	M/S KOYA & COMPANY CONSTRUCTION LTD.										Item	DI SINGLE CHAMBER AIR VALVE				
Project	KIIFB KWA Kollam Site											WITH DI ISOLATING SLUICE VALVE				
Supplier	M/S SUPER VALVE MFG. CO.										Drg. No	SVMC/159				
											Size	200 MM				
Sl.No.	Component	Characteristic of Check	Category	Type of Check/ Method	Extend of Check/Sample	Reference Doc	Acceptance Norm	Format of Record	Agency							
1	2	3	4	5	6	7	8	9	10							
1.1	Body,Dome Wedge, Gland, Gear & Air Valve body ,Cover, Exit Pipe	Physical Properties	Major	UTS ,	One per Heat	D I To IS1865 Gr. 500/7	No Defect	Internal materials Test Certificate	M	M	V					
		Surface		Visual	100%			Inspection Report								
1.2	Body & Wedge Seat Ring& Stern Nut	Physical Properties	Major	UTS, % of Elongation	one per lot	Bronze to IS:318 LTB2	Bronze to IS:318 LTB2	Internal materials Test Certificate	M	M	A					
		Chemical properties		Major elements	100%			Inspection Report								
1.3	Spindle for Isolating Sluice Valve & Air Valve Float & Socket Screw	Physical Properties	Major	UTS, % of elongation	one per lot	SS IS:6603 12 cr 12 AISI:304	Approved Drawings	Internal materials Test Certificate	M	M	A					
		Chemical properties		Major elements	100%			Inspection Report								
		Dimensional		Measurements	100%			Inspection Report								
		Surface defect		Visual	100%			Inspection Report								
1.4	Bolts & Nuts	Surface defect	Major	Visual	100%	No defect	No defect	Internal Insp. Report	M	M	A					
1.5	Inprocess inspection	Surface defect	Major	Visual	100%	No defect	No defect	Internal Insp. Report	M	M	A					
1.6	All Component Assembly	Dimensional	Major	Measurements	100%	Approved Drawing	Approved Drawing	Internal Insp. Report	M	M	A					
		Overall dimension performance(O &C)		Operational	Smooth operation											
1.7	Internal Testing	Leakage Test	Critical	Hyd. Pressure test Body(for 5 mints.) Seat(for 3 mints)	100%	Approved Drawing	No Leakage	Internal Insp. Report	M	M	A					
1.8	Final Inspection	Surface defect& Appearance	Major	Visual	100%	Relevant Specification	No harmful defect	Internal Insp. Report	M	A	A					
		Visual		10%	Smooth operation											
		Measurements		Approved Drawing	Approved Drawing											
		Hyd. Pressure test body , seat		No Leakage												
1.9	Painting&Marking	Appearance&Identification	Major	Appearance & Visual	100%	Approved Drawing	Painting & Marking as per IS:14845	Store Record	M	...	...					

Nomenclature / Legend M-Manufacturer A- T P I / contractor. P-Performed by W- Witness by V- Verified by

Note 1. Manufacturer's raw material test certificate will be reviewed by the third party inspection agency and dimensions check & Hydrostatic test will be done by the third party inspection agency as per the ordering specification.

2. After final inspection client / clients inspector will issue inspection clearance certification and release the material for painting

1 item 1.8 of the QAP is modified as Inspector report instead of Internal Insp. Report


Superintending Engineer
Public Health Circle
Kerala Water Authority
Kollam
 Approved by
 Executive Engineer
 Division
 Kollam