

VTL/EPC/MPWRD/QAP/21

To

09/12/2025

Executive Engineer

Water Resource Department

Neemuch (M.P.)

Ref.: LOA No. 558/SAC/2023, Dated: 13/03/2023

Subject: Request for QAP & Operation Control Philosophy (OCP) Approval of OMS of M/s ACMO Water Technology India Pvt. Ltd., Madhya Pradesh.

Dear Sir,

With reference to above mentioned LOA awarded to us, we request you to kindly approve Quality Assurance Plan (QAP) & Operation Control Philosophy (OCP) of below mentioned vendor.

M/s ACMO Water Technology India Pvt. Ltd., Madhya Pradesh.

We are enclosing Quality Assurance Plan & OCP of OMS for your kind perusal.

The vendor is already approved in the MPWRD, therefore we request you to kindly approve the QAP & OCP at the earliest.

Thanking you

Yours Faithfully,

For Vindhya Telelinks Ltd.



(Authorized Signatory)

Encl. As above



ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Office of The Chief Engineer,
Water Resources Department Ujjain
(Ce.ujn.wrd@gmail.com)

L.N. **489** /Work/CE WRD/26
To,

Ujjain, Dated **12/02/2026**

Executive Engineer
Water Resources Division,
Neemuch.

Sub: Submission of operation & control philosophy for Management System through SCADA for Rampur Manasa Micro Irrigation Project.

Ref: Chief Engineer, E/M Water Resources Department, Bhopal Memo No.21/W/24/582, Bhopal, Date 10.02.2026
00000

In context of the letter referred to under above subject after vetting and scrutinized by the Superintending Engineer, E&M, Circle, Water Resource Department, Bhopal, Executive Engineer, Light Machinery and E/M Division, Water Resource Department, Ujjain recommendation for approval by Chief Engineer E/M, Water Resource Department, Bhopal operation & control philosophy for Outlet Management System through SCADA for Rampur Manasar Micro Irrigation Project on turnkey basis project has been submitted to this office by M/s Vindhya Telelinks Limited, Rewa.

And Comments are as below :-

Sr.No.	Drawing No./Document No.	Description of design/drawings	Rev.	Comments
1	AWT-VTL-RMMMIP OCP	Components of OMS	RO	As Corrected
2	AWT-OMS-RMP-DN100-10/16-1225-03	GA Drawing for outlet management system (OMS)	RO	Generally OK
3	--	Datasheet of OMS Components : 1. Ball Valve 2. Air Valve 3. Butterfly valve DN100(PN10) 4. Butterfly valve DN100(PN16) 5. Strainer 6. PFCMD 7. Pressure Transducer 8. Outlet solenoid valve 9. RTU Controller	RO	As Corrected
4	--	QAP for outlet management system (OMS) 1. Ball Valve 2. Air Valve 3. Butterfly valve DN100(PN10) 4. Butterfly valve DN100(PN16) 5. Strainer 6. PFCMD 7. Pressure Transducer 8. Outlet solenoid valve 9. RTU Controller	RO	As Corrected

After checking following point are observed that :

1. The screen used in strainer must be of 150 micron.
2. Thickness of angle frame of OMS enclosure must be of 5mm instead of 3mm for corrosion allowance.
3. Thickness of sheet OMS enclosure must be of 1mm instead of 0.8mm.

Hence after compliance above submitted Operation & control philosophy for Outlet Management System through SCADA are here by approved but is also advised that while granting the approval it should be emphasized that this approval is part of contract, but his approval does not relieve the contractor from his responsibilities for the accuracy and correctness of the Design/Drawings, manufacturing, fabrication, installation and smooth operation of the equipments etc.. Ensure that the above work is done in accordance with all the conditions of contract.

Enclosure : Operation & control philosophy for Outlet Management System through SCADA as above.

E.N. **490** /Work/CE WRD/26
Copy Forwarded to:-

- 1) Superintending Engineer, Water Resources Circle, Ratlam for information & necessary action.
- 2) M/s Vindhya Telelinks Limited, Rewa for information and necessary action.


(P.C. Mahajan)
Chief Engineer
Water Resources Department Ujjain
Ujjain, Dated **12/02/2026**


(P.C. Mahajan)
Chief Engineer
Water Resources Department Ujjain

Office of the Chief Engineer, E/M, Water Resources Department,
Dam Safety Building, Tulsi Nagar, Bhopal (M.P.)
Tel.No. & 0755&25529131 Fax No.-0755&25529131 email ID ccwrdbho@mnp.nic.in

Memo no.21/ W/24/ **582**

Bhopal, date: **10/02/2026**

To,
The Chief Engineer
Water Resources Department
Ujjain

Sub:- **Submission of operation & control philosophy for Outlet Management System through SCADA for Rampura Manasa Micro Irrigation Project .**

Ref:- **Your letter No. 4942/Work/ Rampura Manasa/C.E/25, Ujjain, dated 23/12/2025.**

As per E-in-C's letter No. 4214/35/2020 Bhopal , Dated 27/10/20 and your letter cited above Documents of operation & control philosophy for Outlet Management System through SCADA have been checked and scrutinized by The Superintending Engineer, E/M Circle , Water Resources Department, Bhopal, Executive Engineer, Light mach. & E/M Division , Water Resources Department., Ujjain and this office and comments are as below:-

Sr. no.	Drawing No./Document No.	Description of design/ drawings	Rev.	Comments
1.	AWT-VTL-RMMMIP OCP	Components of OMS	R0	As corrected
2.	AWT-OMS-RMP-DN100-10/16-1225-03	GA Drawing for outlet management system (OMS).	R0	Generally O.K.
3.	---	Datasheet of OMS Components: 1. Ball Valve 2. Air valve 3. Butterfly valve DN100(PN10) 4. Butterfly valve DN100(PN16) 5. Strainer 6. PFCMD 7. Pressure Transducer 8. Outlet solenoid valve 9. RTU Controller	R0	As corrected
4.	--	QAP for outlet management system (OMS). 1. Ball Valve 2. Air valve 3. Butterfly valve DN100(PN10) 4. Butterfly valve DN100(PN16) 5. Strainer 6. PFCMD 7. Pressure Transducer 8. Outlet solenoid valve 9. RTU Controller	R0	As corrected

After checking following points are observed that:

1. The screen used in strainer must be of 150 micron .
2. Thickness of angle frame of OMS enclosure must be of 5 mm instead of 3 mm for corrosion allowance.
3. Thickness of sheet of OMS enclosure must be of 1 mm instead of 0.8 mm.

After compliance the operation & control philosophy for Outlet Management System through SCADA are in order and recommended for approval. Also it is advised that while granting the approval it should be emphasized that this approval is part of contract, but this approval does not relieve the contractor from his responsibilities for the accuracy and correctness of the Design/Drawings, manufacturing, fabrication, installation and smooth operation of the equipments etc.

Send one scanned copy of approved operation & control philosophy for Outlet Management System through SCADA for record of this office.

Enclosure :- Operation & control philosophy for Outlet Management System through SCADA as above

135/2025
10.02.2026
(B.S. Rawat)
Chief Engineer(E&M)
Water Resources Department, Bhopal.

कार्यालय मुख्य अभियंता
जल संसाधन विभाग, उज्जैन
आवक क्रमांक **296**
दिनांक **12/2/26**

Endt. No. .21/ W/24/

Bhopal, date: /02/2026

Copy is forwarded to:-

- 1- The E-in-C, Water Resources Department, Bhopal(M.P.),
- 2- The Superintending Engineer, E/M Circle , Water Resources Department, Bhopal
- 3- Executive Engineer, Light mach. & E/M Division ,Water Resources Department., Ujjain
for information and necessary action as per E-in-C's letter dated 27/10/20.

Encl:- 0



(B.S. Rawat)
Chief Engineer(E&M)
Water Resources Department, Bhopal.



RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT



RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

DIST.- NEEMUCH (M.P.)

TITLE: OPERATION & CONTROL PHILOSOPHY OF OUTLET MANAGEMENT SYSTEM (OMS) WITH SCADA

CLIENT		Government of Madhya Pradesh Water Resources Department	
MAIN CONTRACTOR		Vindhya Telelinks Limited	
SUB -CONTRACTOR (INTEGRATOR)		ACMO Water Technology India Pvt. Ltd.	
DT: 09.12.2025	DOC. NO: AWT_VTL_RMMMIP_OCP_001_R0		
DESIGNED BY:	SUBMITTED BY:	CHECKED BY:	CHECKED BY:
ACMO WATER TECHNOLOGY INDIA PVT.LTD.	VINDHYA TELELINKS LIMITED	DIST - NEEMUCH (M.P.)	(EXECUTIVE ENGINEER) DIST - NEEMUCH (M.P.)
RECOMMENDED BY:	RECOMMENDED BY:	APPROVED BY:	
Superintending Engineer Water Resources Circle Ratlam (M.P.)	Chief Engineer, E/M Water Resources Department, Bhopal (M.P.)	Chief Engineer, Water Resources Department, Ujjain (36) M.P.	

Water Resources Department, Bhopal (M.P.)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt.

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M

Corporate Office Address: Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh

GST No: 23AAHCN5259N1Z0. CIN No: U74999MP2021PTC055600. www.awt-bharat.com, info@avkawt.com

INDEX

1. PROJECT INTRODUCTION.....	3
1.1 PROJECT SCHEMATIC LAYOUT:.....	5
1.2 OUTLET MANAGEMENT SYSTEM (OMS) LOCATIONS:	5
1.3 SYSTEM ARCHITECTURE:	6
2. OUTLET MANAGEMENT SYSTEM (OMS):	8
2.1 OMS – NETWORK AND COMMUNICATION ARCHITECTURE:	9
2.2 SITE PICTURES OF INSTALLED GATEWAY :-.....	10
2.3 ROTATION MANAGEMENT SYSTEM DESIGN:	10
2.4 SCADA –	12
3. WATER USER ASSOCIATION (WUA) OVERVIEW.....	15
4. ROTATION MANAGEMENT SYSTEM SAMPLE.....	18
5. OMS GENERAL ARRANGEMENT DRAWING: -	20
6. COMPONENTS DATASHEET & GAD	23
7. OMS COMPONENTS QAP –	42
8. ACMO WATER TECHNOLOGY APPROVAL DOCUMENTS: -	54

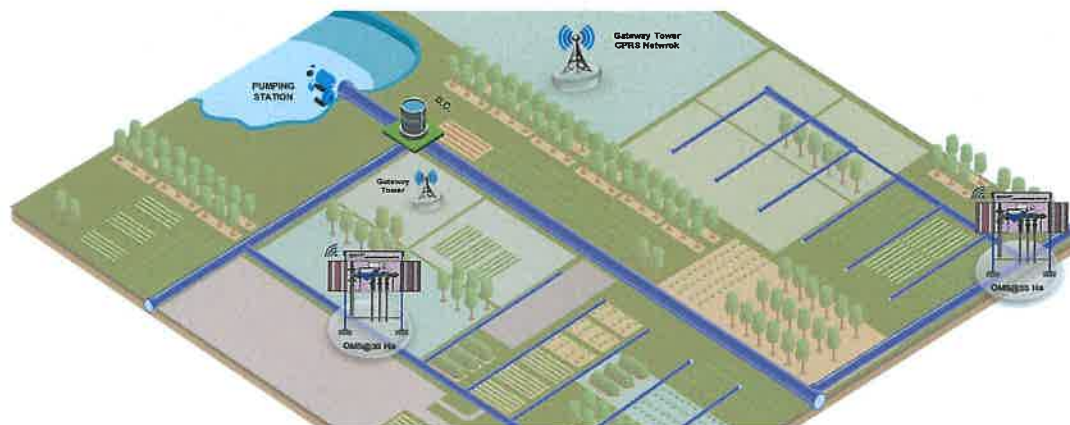
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1. PROJECT INTRODUCTION

This micro-irrigation project aims to enhance agricultural productivity by delivering water precisely and efficiently, while encouraging the adoption of advanced irrigation technologies such as drip and sprinkler systems. The system is designed to supply water in the required quantity, at the appropriate pressure, and at the right time, ensuring optimal crop growth and minimizing wastage. By lifting water from the designated water source, the project reduces dependence on groundwater, thereby preserving it for essential uses such as drinking water supply. Instead, it utilizes rainwater or surface water (raw water) to meet agricultural requirements. This approach helps address the increasing issue of groundwater depletion and supports the sustainable management of water resources.



*All the images are shown in this document are for indicative purpose.

The Rampura–Manasa Micro Major Irrigation Project, situated in the Neemuch District, is an ambitious initiative designed to distribute water across a Culturable Command Area (CCA) of 67,227 hectares.

Salient features Of Project

District	=	Neemuch
Tehsil	=	Rampura, Manasa, Neemuch and Jawad
No. of Village	=	217+ Nos
Source of Water	=	Gandhi Sagar LSL
CCA Area	=	67,227 Ha
Pump House -1	=	System 1 & 3 - 5(4W+1S) System 2 - 5(4W+1S) Stage-2 - 5(4W+1S)
Pump House -2	=	TAG-1 - 4(3W+1S) TAG-2 - 2(1W+1S)
Duty	=	0.33 LPS/HA
Design Head PH-1	=	System 1 & 3 - 141 mtr System 2 - 99.4 mtr Stage-2 - 72.5 mtr
Design Head PH-2	=	TAG-1 - 130.5 mtr TAG-2 - 95 mtr



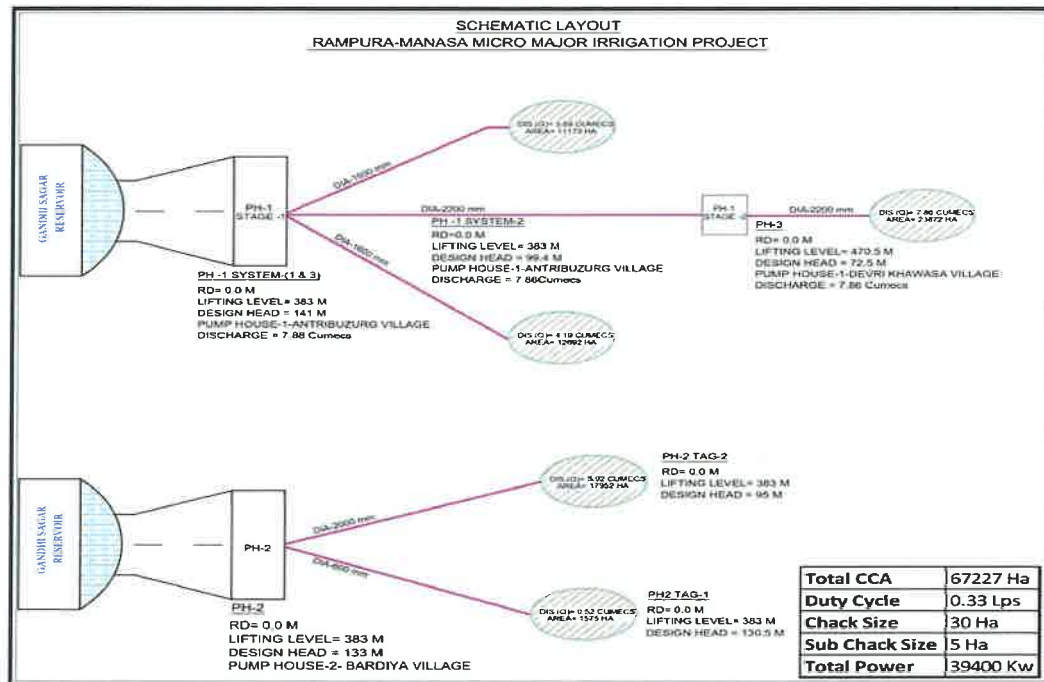
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ACRONYMS

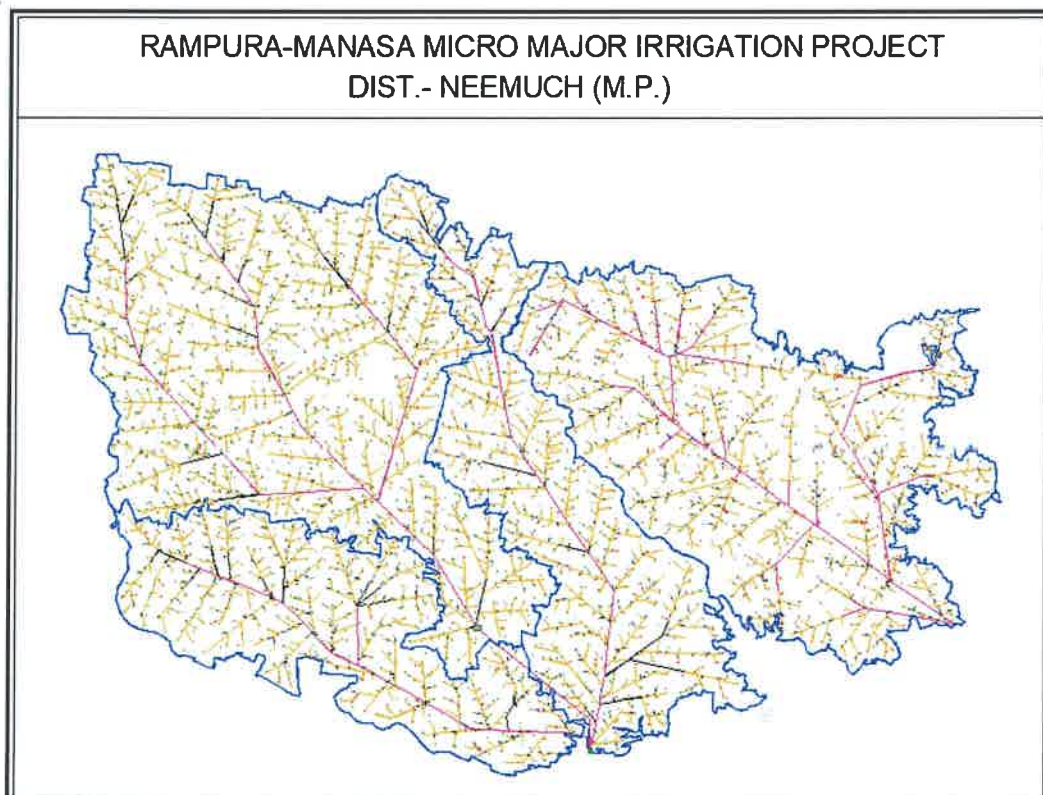
- i. **SCADA** - Supervisory Control and Data Acquisition
- ii. **PT** - Pressure Transmitter
- iii. **FM** - Flow Meter
- iv. **PG** - Pressure Gauge
- v. **PS** - Pressure Switch
- vi. **OMS** – Outlet Management System
- vii. **AMS** – Air Management System
- viii. **RMS** – Rotational Management System
- ix. **RTU** – Remote Terminal Unit
- x. **PFCMD** – Pressure and Flow, Controlling and Monitoring Device
- xi. **O&M** – Operation and Maintenance
- xii. **WUA** -Water User Association
- xiii. **CCA** – Culturable Command Area
- xiv. **GCA** – Gross Command Area

1.1 PROJECT SCHEMATIC LAYOUT:



1.2 OUTLET MANAGEMENT SYSTEM (OMS) LOCATIONS:

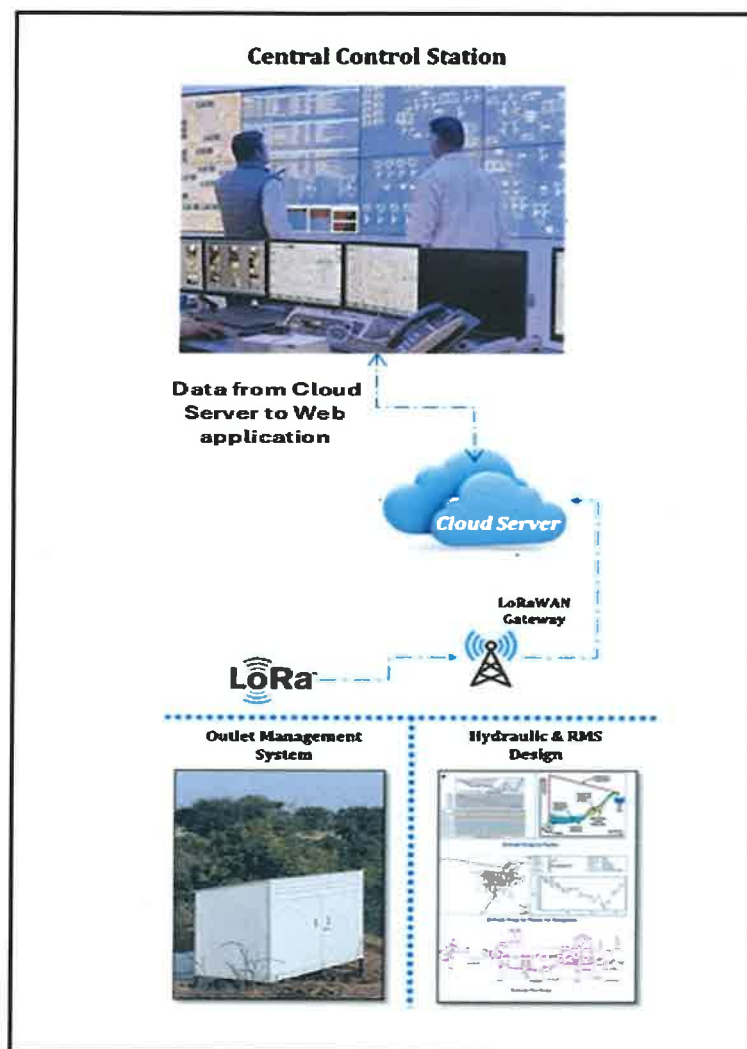
Approximately 2253 OMS units have been designed across the command area to facilitate water distribution to farmers, each covering about 30 hectares.



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1.3 SYSTEM ARCHITECTURE:



Note:

1. All the images are shown in this document are for indicative purposes.
2. This is typical philosophy that can be changed during details engineering.

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OMS OPERATION & CONTROL PHILOSOPHY

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2. OUTLET MANAGEMENT SYSTEM (OMS):

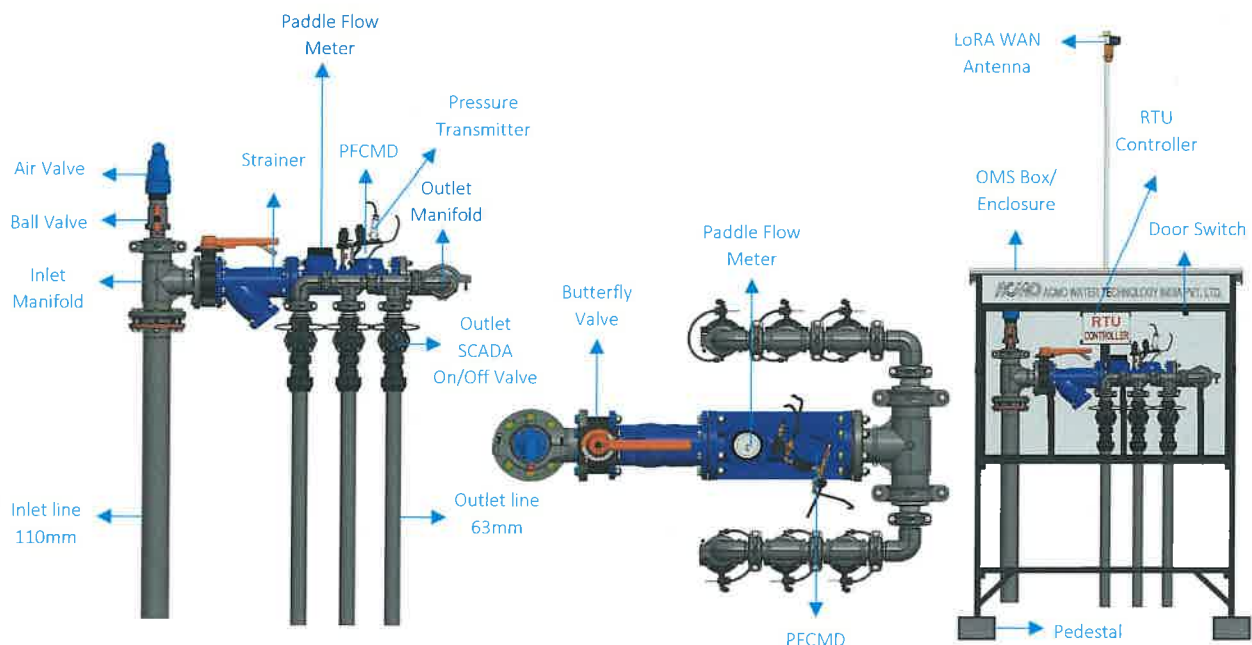
An Outlet Management System (OMS) is designed to monitor the pressure & discharge of each OMS and control water delivered to farmers by controlling individual outlet on/off valves as per Rotation Management System (RMS).

ACMO OMS Controller works as a master capable of storing the Rotation Management System (RMS). At the start of the Rabi irrigation season, the RMS is broadcast through SCADA and stored locally in each Remote Terminal Unit (RTU). This ensures uninterrupted rotation even during communication loss with SCADA.

The RMS is time-driven and flexible, allowing operators to change the water schedule at any time for an individual outlet or the entire Outlet Management System (OMS) based on farmer demands or in case of crop variations through SCADA.

As per WRD guidelines, OMS will be installed at 30 Ha, and the number of outlets will be defined as per hydraulic design.

General Arrangement of Outlet Management System (OMS)-



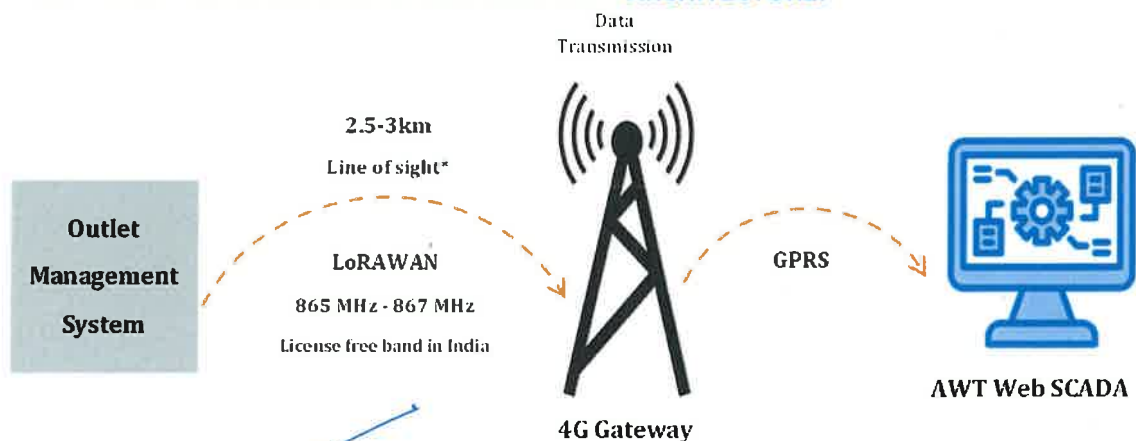
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COMPONENTS OF OMS			
Sr.No.	Component List	Size	Application
1.	Butterfly Valve	DN100	For isolation of complete OMS system during maintenance.
2.	Air Valve with	DN50	To release trapped air from water.
3.	Ball Valve	DN50	For isolation purpose during air valve maintenance.
4.	PFCMD Valve with Paddle Wheel Flow Meter	DN100	PFCMD - To control and monitor flow of water. Flow Meter – For monitoring total volume of water discharge and flow rate of water.
5.	Pressure Transducer	0-10/16 Bar	To monitor water pressure.
6.	Outlet SCADA On/Off Valve	DN50	Solenoid operated control valves to on/off the outlets according to the RMS
7.	Strainer	DN100, 2mm screen	To strain raw water.
8.	Door Switch	NO/NC	To provide alarm when someone opens the door of OMS chamber.
9.	RTU with LoRaWAN	12VDC operated	To control valves and monitor OMS parameters and communicate it to Master control room through LoRA WAN communication. Inbuilt battery with Note: No solar system needed.
10.	OMS Enclosure	OMS Enclosure 1. Angle Frame 3 mm thick, 2. Sheet 0.8 mm GI sheet (pre-painted).	To protect the component from theft and Sabotage & provide housing to the equipment.

2.1 OMS – NETWORK AND COMMUNICATION ARCHITECTURE:



Chief Engineer
Water Resources Department
Ujjain (36) M.P.
ACMO Water Technology India Pvt Ltd

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Recommended for Approval

138 Rawat

(B.S. RAWAT)

Chief Engineer, E/M.

Water Resources Department,
Bhopal (M.P.)

2.2 SITE PICTURES OF INSTALLED GATEWAY :-



2.3 ROTATION MANAGEMENT SYSTEM DESIGN:

1. The RMS cycle is planned for the irrigation of wheat crops during the Rabi season, lasting 120 days from November to February.
2. It considers a total precipitation depth of 30 cm for the entire season.
3. Wheat crops typically require 4-5 irrigation cycles, but we have planned for a total of 6 cycles.
4. Each irrigation cycle will provide 5 cm of water.
5. AWT RMS is time-driven and flexible, allowing operators to change the water schedule at any time for an individual outlet or the entire Outlet Management System (OMS) based on farmer demands or in case of crop variations through SCADA.

a. Rotation Management System (RMS) for 6 Outlet – (in 30Ha)

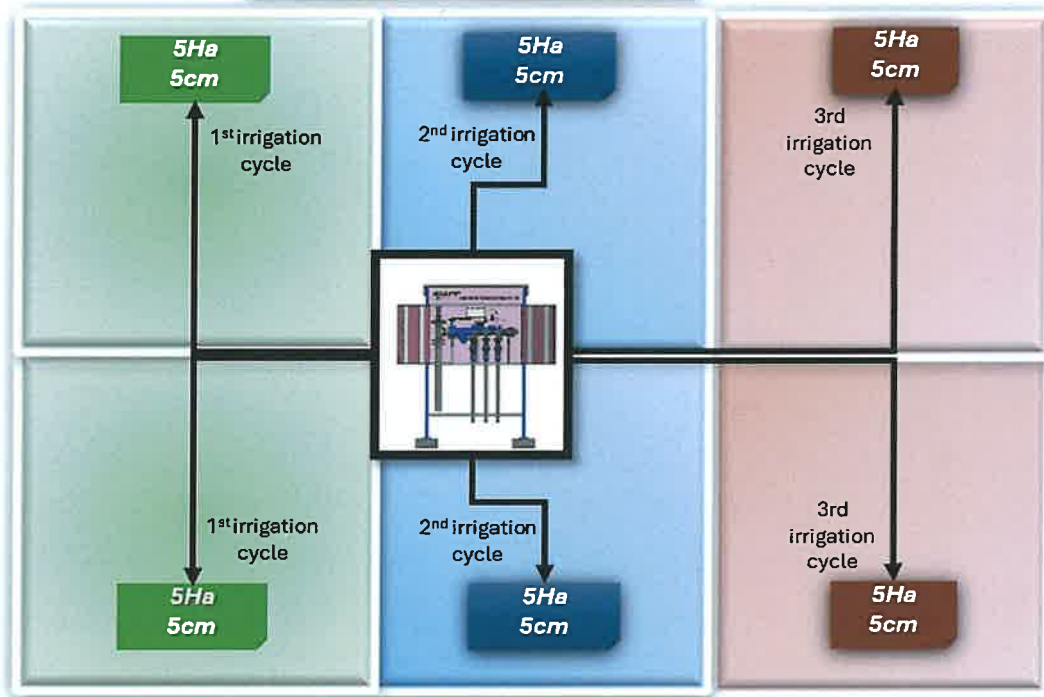
- 30Ha chak is divided into 6 No's of 5Ha sub chaks.

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- First irrigation cycle –
 - Let's say -1st, & 2nd outlets start at a time and will run till it meets the precipitation depth of 5cm; hence the inlet flow will be distributed in two equal parts in each line.
 - After completion of 5cm depth of 1st and 2nd outlets, the 3rd and 4th outlets initiate irrigation in their designated areas promptly following the closure of the 1st and 2nd outlets. Subsequently, the 5th and 6th outlets will commence their irrigation once the 3rd and 4th outlets are closed, in this way the first irrigation cycle will be completed.
- Similarly, the 2nd, 3rd, 4th, and 5th or 6th irrigation cycle will be continued for 120 days to cover 30 cm precipitation depth of water.

Water Distribution Under 30 Ha



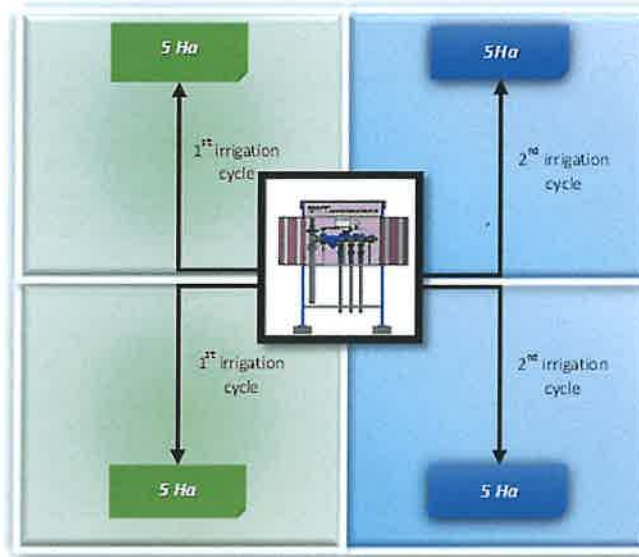
b. Rotation Management System (RMS) for 4 Outlet – (in less than 30 Ha)

- First irrigation cycle –
 - Let's say -1st, & 2nd outlets start at a time and will run till it meets the precipitation depth of 5cm; hence the inlet flow will be distributed in two equal parts in each line.
 - After completion of 5cm depth of 1st and 2nd outlets, the 3rd and 4th outlets initiate irrigation in their designated areas promptly following the closure of the 1st and 2nd outlets. In this way the first irrigation cycle will be completed.
- Similarly, the 2nd, 3rd, 4th, and 5th 6th irrigation cycle will be continued for 120 days to cover 30 cm precipitation depth of water.

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Water Distribution below 30Ha Chak



2.4 SCADA –

1. ACMO SCADA can generate two types of reports: one for historical daily activities of an OMS and another for alarm event generation.
2. SCADA will be monitoring and controlling the OMS parameters like pressure, flow, totalizer values.
3. Individual valve controlling provision is also provided at each OMS the SCADA system for operation in auto and manual mode.
4. SCADA system will be connected with all RTU controllers through the LoRaWan network at 865 MHz - 867 MHz license free band in India.
5. OMS SCADA will send message (SMS) to farmer's / WUA representative before the watering cycle begins (opening of their valves).
6. The farmer's details along with the farmer's name/land number/CCA and totalizer details of each OMS will be shown in the SCADA.
7. Controller sends data to SCADA in every 30 min for monitoring and takes commands from SCADA.
8. All incoming and PLC internal generated alarms are indicated in the SCADA Workstations. This will help operators to overcome critical situations of any equipment or of the system.

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Sample SCADA Screens –

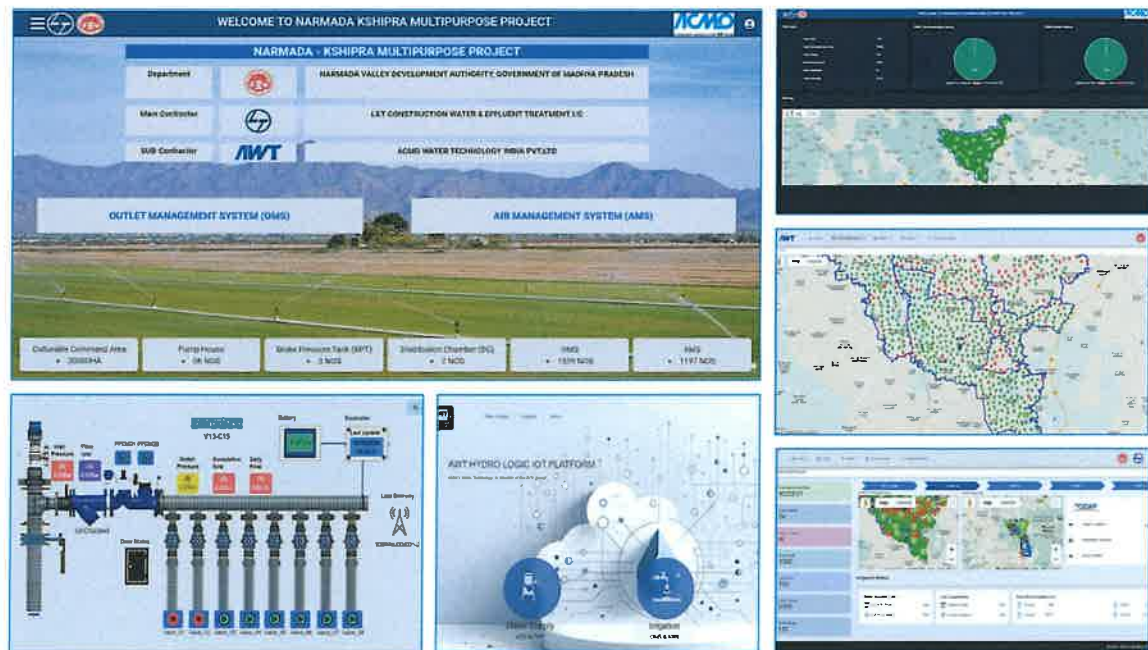


FIG – SAMPLE OMS SCADA SCREENS

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WATER USER ASSOCIATION (WUA)

ACMO Water Technology India Pvt Ltd

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3. WATER USER ASSOCIATION (WUA) OVERVIEW

The Water User Association operates the irrigation system to ensure equitable distribution of water across the command area, based on verified land records, approved command mapping, and farmer participation. The association maintains transparent records, follows rotational irrigation practices, facilitates training, supports modern irrigation methods, and ensures long term sustainability of irrigation assets.

The steps carried out in the Water User Association (WUA) are as follows:

Farmer Engagement

Awareness meetings are conducted across the command area to educate farmers about participatory irrigation management and the importance of collective decision-making. With their consent, farmers' details such as identification, contact information, and cultivated land area as per existing records are also documented.

Farmer Database and Land Verification

A farmer master detail document is prepared with Aadhaar, mobile number, khasra details, total cultivable area and outlet connectivity. Land entries are verified through field inspections in consultation with each farmer. Khasra and boundary deviations are corrected during verification and updated in the final document. This document becomes the official beneficiary base linked to the command area.

Command Mapping

The verified farmer data as a reference, a geo-referenced command map is created. Thereafter, tertiary areas are marked based on the actual cultivated land, and each farmer is linked to the corresponding outlet. This command map serves as the operational reference for scheduling, water distribution, WUA elections, and farmer service linkage, and it remains unchanged unless revised through approved procedures.

Training, Demonstration and Farmer Advisory

In training programs, farmers are educated about proper irrigation practices, water-saving methods, crop water requirements, rotational water supply, and basic farm-level maintenance. Demonstration units are set up so farmers can learn through practical examples during different crop seasons. Additionally, exposure visits and information sessions are organized by trained staff and farmer representatives.

Formation and Election of WUA

Farmer representatives coordinate with the department for the formation and election of Water User Associations. Elections are conducted through the notified departmental procedure, using voter lists prepared only from the verified farmer register. Nomination, scrutiny, objection handling and polling

are carried out as per prescribed norms. The elected committee members are assigned responsibilities for record keeping, water allocation, farmer communication and operational supervision within their designated command area.

Farmer Service Centres

Farmer Service Centres act as public access points supporting farmers, training coordination, exposure visits, demonstration management and information dissemination. Centres maintain records of visitors, advisory consultations, training sessions and crop planning assistance. These centres ensure continuous farmer engagement throughout the command.

Irrigation Scheduling and Distribution

Water allocation follows rotational distribution aligned with crop water requirements and the approved command mapping. Schedules are prepared seasonally and updated only when cropping patterns change significantly. Distribution follows equal opportunity principles, maintaining transparent record keeping of outflow timings, duration and deviations.

Monitoring, Maintenance and Record Management

Routine inspections are carried out to Check distribution performance, farmer compliance, and the overall functioning of the irrigation project. Records are maintained for water delivery, farmer training, seasonal planning, and maintenance activities. Annual reviews are conducted to optimize water usage and improve scheduling efficiency.

ACMO Water Technology India Pvt Ltd

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ROTATION MANAGEMENT SYSTEM

ACMO Water Technology India Pvt Ltd

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GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com , info@avkawt.com



MP BIRLA
GROUP

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT



4. ROTATION MANAGEMENT SYSTEM SAMPLE

OMS - C1071			No of hrs to precipitate = 6 cm	No of Days for 1 irrigation cycle	Total no of days to precipitate 30cm	Volume of water given in each cycle	IRRIGATION CYCLE 1		IRRIGATION CYCLE 6	
Line No.	Area (Ha)	Flow Rate (lps)	0.06 m	24.00 hr	0.30 m	Litre				
C1071	30.38	10.63	476.19	19.84	99.21	1,82,28,000.00	01-11-2025 05:00	20-11-2025 02:18	11-02-2026 21:01	04-03-2026 09:49
C1071-O1	4.910	3.54	230.88	9.62	48.10	29,46,000.00	1-11-2025 5:00	10-11-2025 19:53	3-2-2026 15:31	13-2-2026 6:24
C1071-O2	4.490	3.54	211.14	8.80	43.99	26,94,000.00	1-11-2025 5:00	10-11-2025 0:08	11-2-2026 21:01	20-2-2026 16:09
C1071-O3	6.380	3.54	300.01	12.50	62.50	38,28,000.00	1-11-2025 5:00	13-11-2025 17:00	9-2-2026 17:18	22-2-2026 5:18
C1071-O4	4.730	3.54	222.42	9.27	46.34	28,38,000.00	10-11-2025 19:53	20-11-2025 2:18	13-2-2026 6:24	22-2-2026 12:50
C1071-O5	5.990	3.54	281.67	11.74	58.68	35,94,000.00	10-11-2025 0:08	21-11-2025 17:48	20-2-2026 16:09	4-3-2026 9:49
C1071-O6	3.880	3.54	182.45	7.60	38.01	23,28,000.00	13-11-2025 17:00	21-11-2025 7:27	22-2-2026 5:18	1-3-2026 19:45



Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)
Neemuch (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

YOGESH DOBEY
F/M Circle, Water Resources Deptt. Bhopal
Executives Engineer
Night Machinery & EM
Water Resources Division Ujjain

B.S. Meena
Superintending Engineer

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No 23AAHCN5259N1ZO, CIN No : U74999MP2021PTC055600, www.awt-bharat.com, info@awt.com

Sub Divisional Officer
L.M. AND E/M WRD

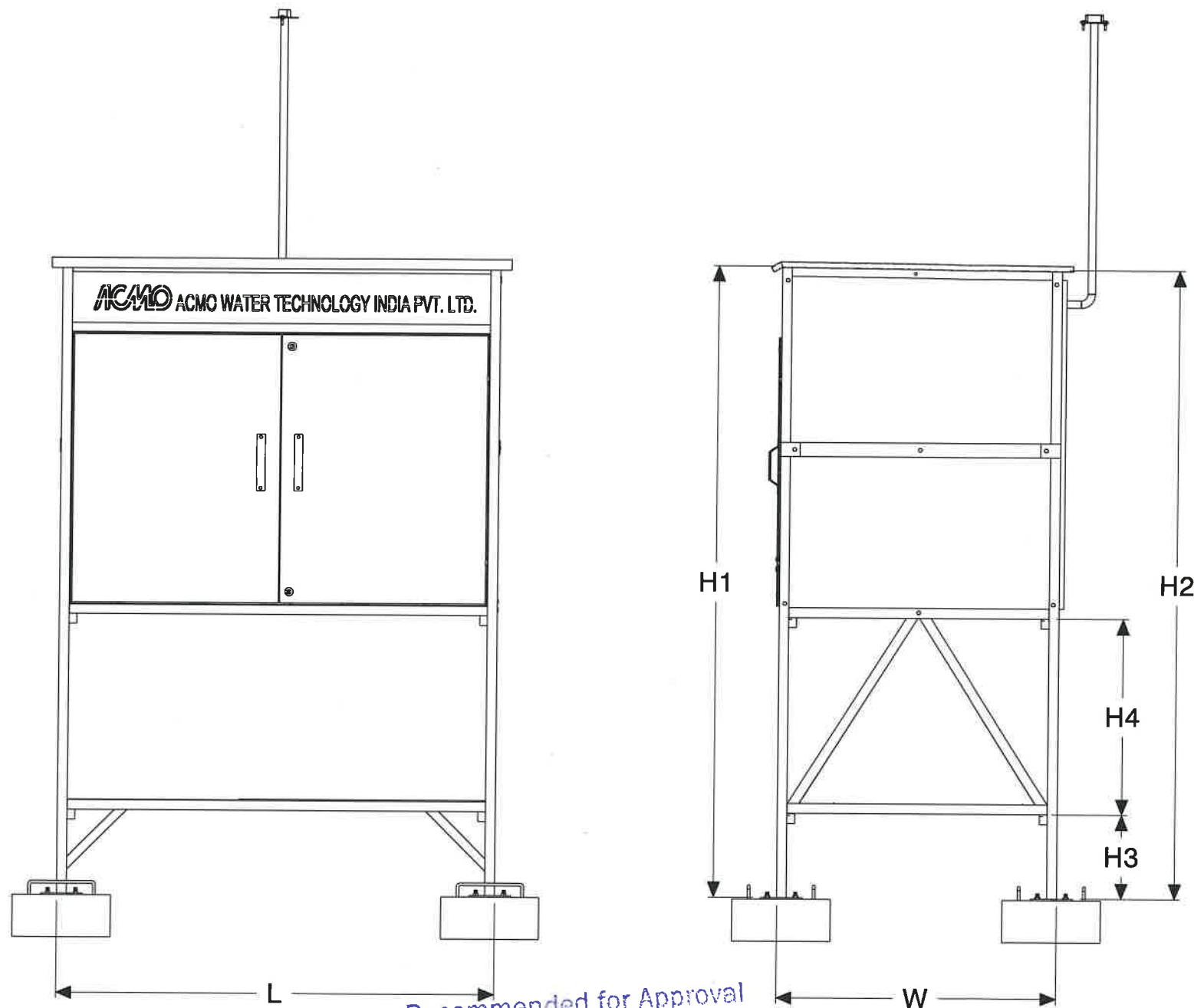
SUB DIVISION SHAMGARH (0264)

OMS GENERAL ARRANGEMENT DRAWING

ACMO Water Technology India Pvt Ltd

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OUTLET MANAGEMENT SYSTEM ENCLOSURE



FRONT VIEW

SIDE VIEW

Recommended for Approval
138 Paur
(B.S. RAWAT)
Chief Engineer, E/M,
Water Resources Department,
Bhopal (M.P.)

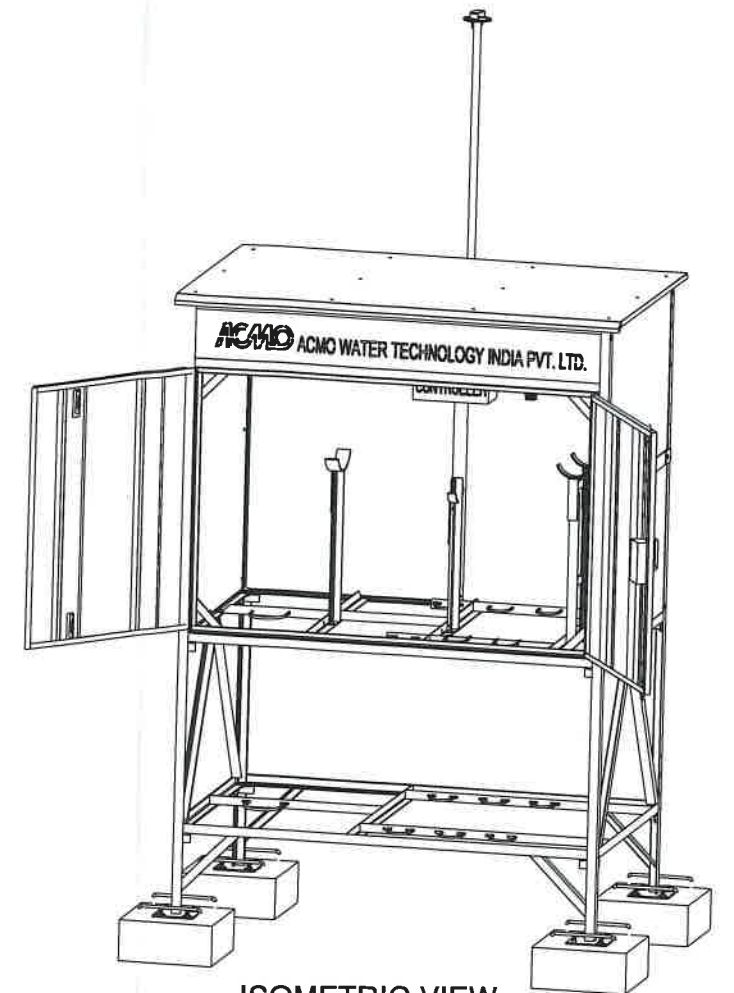
SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal
(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

OMS ENCLOSURE SHEET DETAIL			
DESCRIPTION	THICKNESS	COLOR	THICKNESS TOLERANCE
PPGI/PPGL Sheet	0.8 MM	White	AS per relevant IS code IS 15965 / IS 15961

OMS ENCLOSURE DN100						UNIT - MM
SIZE	HEIGHT				LENGTH	WIDTH
DN	H1	H2	H3	H4	L	W
100	2250	2230	300	700	1560	1000

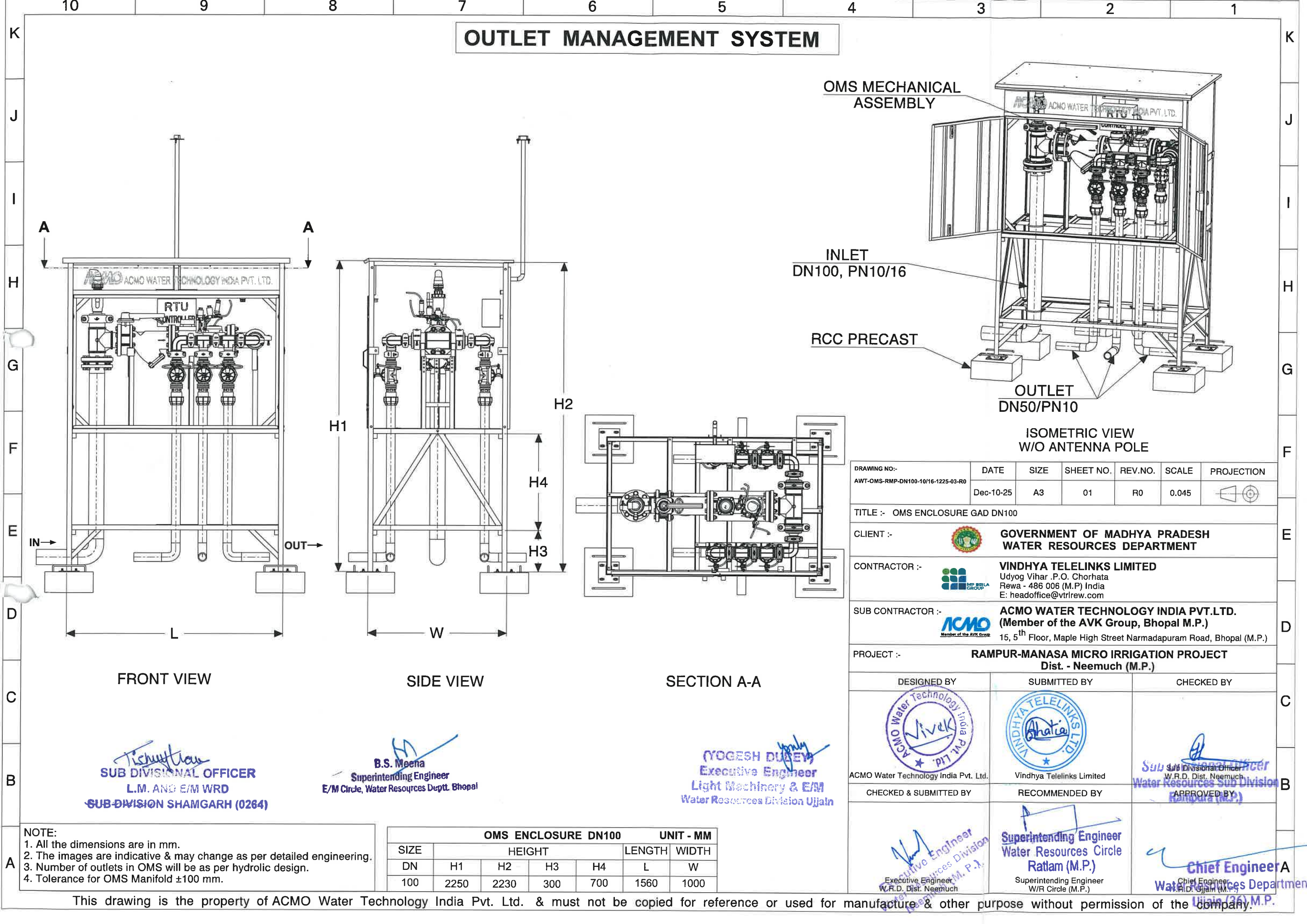
NOTE:-
1. All the dimensions are in mm.
2. The images are indicative & may change as per detailed engineering.
3. MS Angle for OMS Enclosure frame fabrication :- ISA 35X35X3 mm MS Angle .
4. MS Angle for saddle support fabrication :-ISA 30X30X5 mm & ISA 25X25X5 mm.
5. Tolerances for MS angle & MS sheet are applicable as per IS 1852 & IS 808.
6. Tolerance for enclosure fabrication ±100 mm.
7. Precast design & mounting accessories may vary as per site condition.
8. Profile sheet has to mount above 1000 mm compartment.



ISOMETRIC VIEW

DRAWING NO:- AWT-OMS-RMP-DN100-10/16-1225-03-R0	DATE Dec-10-25	SIZE A3	SHEET NO. 01	REV.NO. R0	SCALE 0.050	PROJECTION 
TITLE :- OMS ENCLOSURE GAD DN100						
CLIENT :- 	GOVERNMENT OF MADHYA PRADESH WATER RESOURCES DEPARTMENT					
CONTRACTOR :- 	VINDHYA TELELINKS LIMITED Udyog Vihar .P.O. Chorhata Rewa - 486 006 (M.P) India E: headoffice@vtrlink.com					
SUB CONTRACTOR :- 	ACMO WATER TECHNOLOGY INDIA PVT.LTD. (Member of the AVK Group, Bhopal M.P.) 15, 5 th Floor, Maple High Street Narmadapuram Road, Bhopal (M.P.)					
PROJECT :- RAMPUR-MANASA MICRO IRRIGATION PROJECT Dist. - Neemuch (M.P.)						
DESIGNED BY		SUBMITTED BY		CHECKED BY		
 ACMO Water Technology India Pvt. Ltd.		 Vindhya Telelinks Limited		 Sub Divisional Officer Water Resources Sub Division Rampura (M.P.)		
CHECKED & SUBMITTED BY		RECOMMENDED BY		APPROVED BY		
 Executive Engineer Water Resources Division W.R.D. Dist. Neemuch		 Superintending Engineer Water Resources Circle Ratlam (M.P.) Superintending Engineer W/R Circle (M.P.)		 Chief Engineer Water Resources Department W.R.D. Bhopal (M.P.)		

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OUTLET MANAGEMENT SYSTEM

OMS MECHANICAL ASSEMBLY

INLET DN100, PN10/16

RCC PRECAST

OUTLET DN50/PN10

ISOMETRIC VIEW W/O ANTENNA POLE

DRAWING NO.:-	DATE	SIZE	SHEET NO.	REV.NO.	SCALE	PROJECTION
AWT-OMS-RMP-DN100-16-1225-03-R0	Dec-10-25	A3	01	R0	0.045	

TITLE :- OMS ENCLOSURE GAD DN100

CLIENT :- GOVERNMENT OF MADHYA PRADESH WATER RESOURCES DEPARTMENT

CONTRACTOR :- VINDHYA TELELINKS LIMITED
Udyog Vihar .P.O. Chorghata
Rewa - 486 006 (M.P) India
E: headoffice@vtrilrewa.com

SUB CONTRACTOR :- ACMO WATER TECHNOLOGY INDIA PVT.LTD.
(Member of the AVK Group, Bhopal M.P.)
15, 5th Floor, Maple High Street Narmadapuram Road, Bhopal (M.P.)

PROJECT :- RAMPUR-MANASA MICRO IRRIGATION PROJECT
Dist. - Neemuch (M.P.)

DESIGNED BY	SUBMITTED BY	CHECKED BY
 ACMO Water Technology India Pvt. Ltd.	 Vindhya Telelinks Limited	 Sub Divisional Officer W.R.D. Dist. Neemuch
CHECKED & SUBMITTED BY	RECOMMENDED BY	APPROVED BY
 Executive Engineer Water Resources Division Ujjain (M.P.)	 Superintending Engineer Water Resources Circle Ratlam (M.P.)	 Chief Engineer Water Resources Department Ujjain (M.P.)

NOTE:
1. All the dimensions are in mm.
2. The images are indicative & may change as per detailed engineering.
3. Number of outlets in OMS will be as per hydrolic design.
4. Tolerance for OMS Manifold ± 100 mm.

OMS ENCLOSURE DN100					UNIT - MM	
SIZE	HEIGHT				LENGTH	WIDTH
DN	H1	H2	H3	H4	L	W
100	2250	2230	300	700	1560	1000

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OMS COMPONENTS DATASHEET & GAD

ACMO Water Technology India Pvt Ltd

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GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com , info@avkawt.com

6. COMPONENTS DATASHEET & GAD

DATA SHEET FOR BALL VALVE		
Sr. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make / ACMO
6	General Operating Specification	
6.01	Valve Type	PVC single union Ball Valve
6.02	Size	50 mm
6.03	Fluid to be Handled	Raw Water
6.04	Fluid State	Liquid
6.05	Operation	Manually lever operated
7	Valve Design Specification	
7.01	Design Standard	Confirming to ISO 9911
7.02	Design Temperature	50°C
7.03	Design Pressure	10/16 Bar
7.04	End Connection	Threaded 2" BSP
8	Material of Construction	
8.01	Seal	TPE (Thermoplastic Elastomer)
8.02	Ball	PVC (Polyvinyl Chloride)
8.03	Body	PVC (Polyvinyl Chloride)
8.04	Shaft	PVC (Polyvinyl Chloride)
8.05	Shaft O-ring	NBR (Nitrile Butadiene Rubber)
9	Working Principle	
9.01	Ball valve	A ball valve is a type of valve which is used to start, stop and regulate the flow of liquid in the pipeline by controlling the movement of a rotary ball having a bore.
10	Testing & Inspection	
10.01	Body Test Pressure	10/16 Bar
11	General Assembly Drawing	Please refer attached drawing.

Recommended for Approval

128 Pmt
(B.S. RAWAT)

Chief Engineer, E/M.

Water Resources Department,

Bhopal (M.P.)



Sub Divisional Officer
Water Resources Sub Division
(M.P.)

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh

GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com , info@avkawt.com

Executive Engineer
Water Resources Division
Neemuch (M. P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Chief Engineer
Water Resources Department
Ujjain (36) M.P.

SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

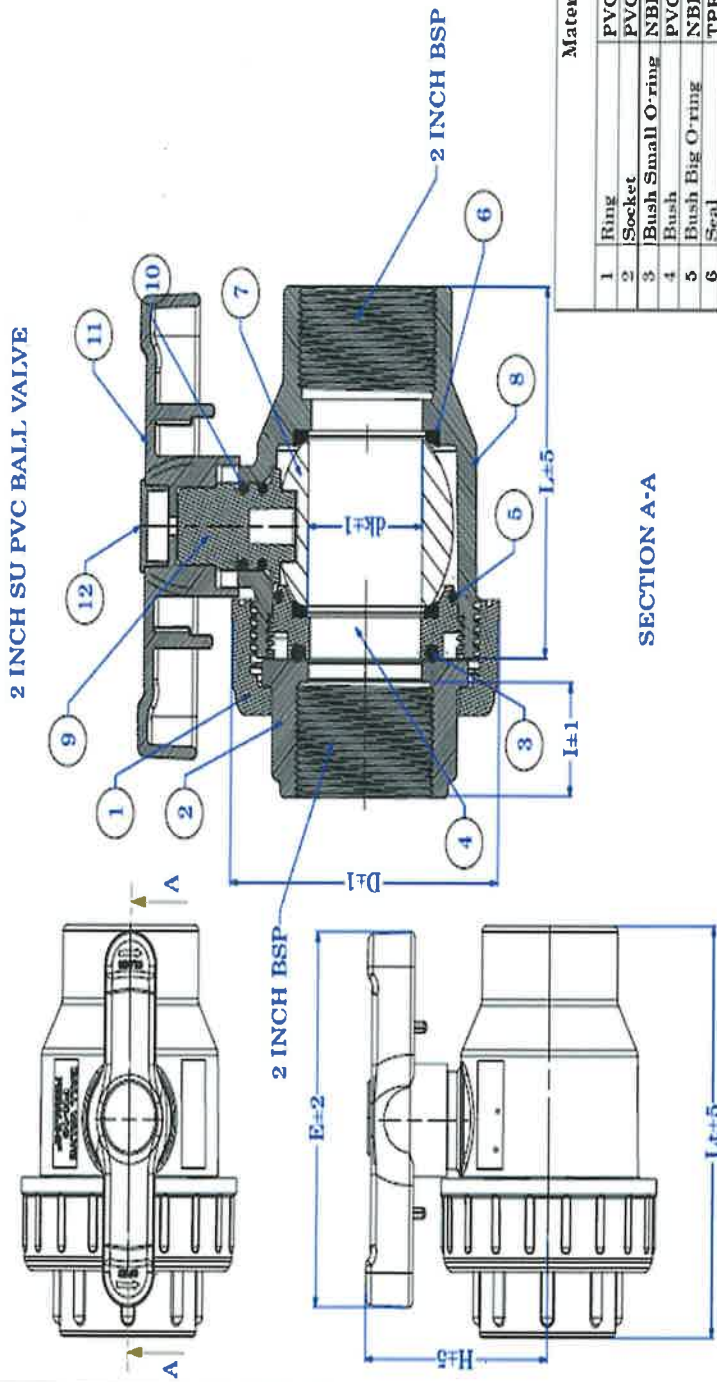


RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT



Member of the AVK Group

BALL VALVE GAD – DN 50



Material of Construction	
1 Ring	PVC (Polyvinyl Chloride)
2 Socket	PVC (Polyvinyl Chloride)
3 Bush Small O-ring	NBR(Nitrile Butadiene Rubber)
4 Bush	PVC (Polyvinyl Chloride)
5 Bush Big O-ring	NBR(Nitrile Butadiene Rubber)
6 Seal	TPE (Thermoplastic Elastomer)
7 Ball	PVC (Polyvinyl Chloride)
8 Body	PVC (Polyvinyl Chloride)
9 Shaft	PVC (Polyvinyl Chloride)
10 Shaft O-ring	NBR(Nitrile Butadiene Rubber)
11 Handle	PPGF-20% (Polypropylene Glass Filled -20%)
12 Handle Logo	PPGF-20% (Polypropylene Glass Filled -20%)

SECTION A-A

SIZE/CM	4k	D	I	L	L ₁	E	H
50	40.5	116	57	116	163	150	97



Executive Engineer
Water Resources Division
Ratlam (M.P.)
462026, Madhya Pradesh

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)
462026, Madhya Pradesh

Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain B.S. Meena

Superintending Engineer
Water Resources Deptt. Shri...

DATA SHEET FOR AIR VALVE		
Sr. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make / ACMO
6	General Operating Specification	
6.1	Valve Type	Acting Air Release Valve
6.2	Size	50 mm
6.3	Fluid to be Handled	Raw Water
6.4	Fluid State	Liquid
6.5	Operation	Automatic
7	Valve Design Standard	
7.1	Design Standard	Confirming to ISO 9635-4
7.2	Design Temperature	50°C
7.3	Pressure Range	0.2 to 10/16 kg/cm ²
7.4	End Connection Size	Threaded 2" BSP (F)
8	Material of Construction	
8.1	Body	Nylon GF
8.2	Bottom	Nylon GF
8.3	Elbow	Nylon GF
8.4	Seal Washer	EPDM
9	Testing & Inspection Detail	
9.1	Hydraulic Pressure Test	10/16 Bar
10	Working Principle	Automatic air release valves are installed at the highest points in a pipeline where air naturally collects. Air bubbles enter the valve and displace the liquid inside, lowering the liquid level. When the level drops to where it no longer buoys the float, the float drops. This motion pulls the seat away from the orifice, triggering the valve to open and vent the accumulated air into the atmosphere.

Recommended for Approval

138 Rawat
(B.S. RAWAT)
Chief Engineer, E/M
Water Resources Department,
Bhopal (M.P.)



Executive Engineer
Water Resources Division
Bhopal (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Chief Engineer
Water Resources Department
Ujjain (36) M.P.

Sub Divisional Officer
Water Resources Division
Rampur (M.P.)

ACMO Water Technology India Pvt Ltd

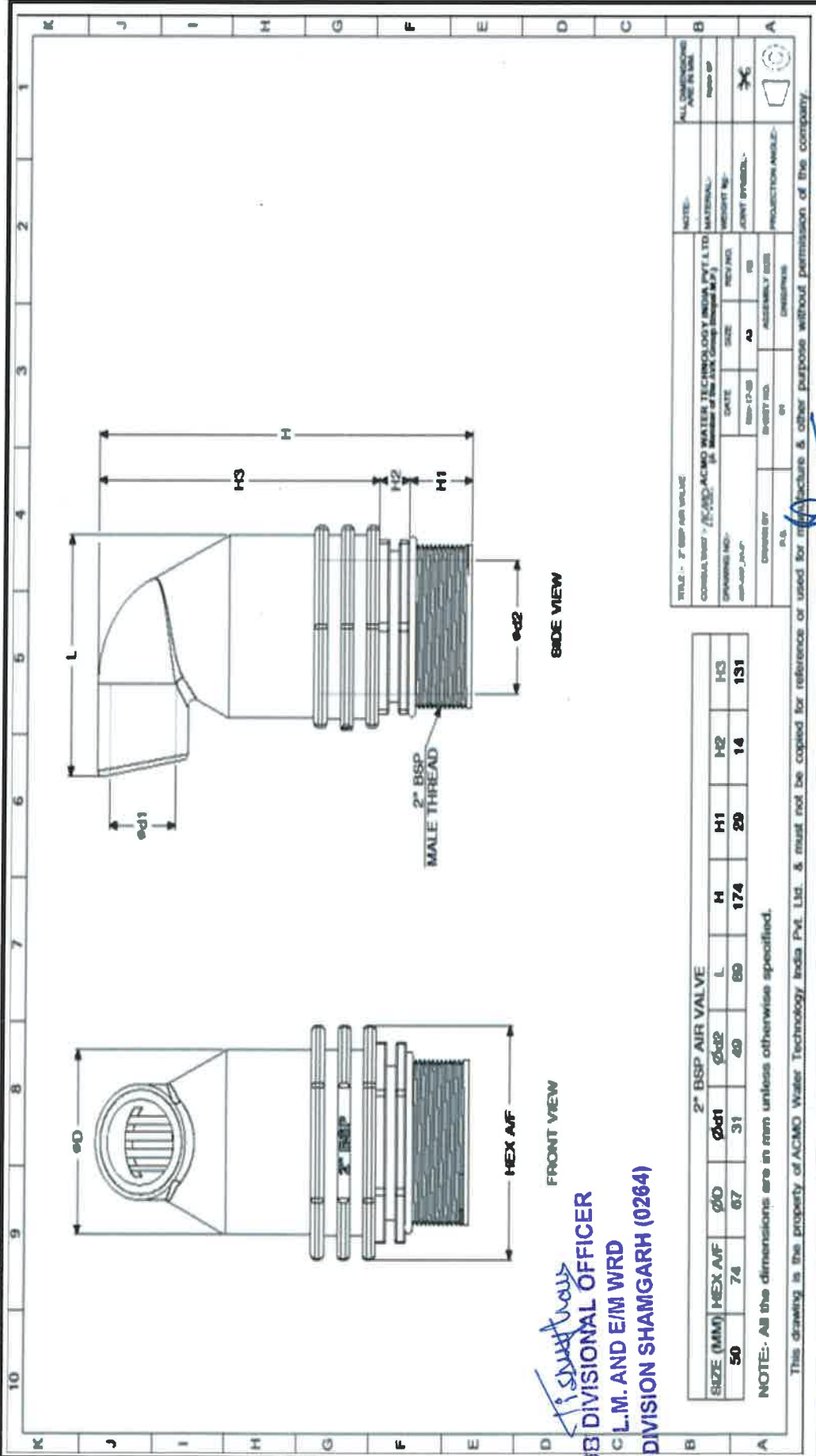
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Tishu
SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH KUREY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

AIR VALVE GAD - DN 50



Signature
SUB DIVISIONAL OFFICER

C.L.M. AND E/M WRD

SUB DIVISION SHAMGARH (0264)



Signature
Executive Engineer
ACMO Water Technology India Pvt Ltd

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt.
Water Resources Circle
Ratlam (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

Water Resources Sub Division
Rampura (M.P.)

Corporate Office Address : Madhya Pradesh, in front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No : 23AAHCN5269RTZO, CIN NO : U74999MP2021PTC055600, www.awt-bharat.com, info@awt.com

DATASHEET FOR BUTTERFLY VALVE DN100 (PN10)

Sr. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make /ACMO
6	General Operating Specification	
6.1	Valve Type	Butterfly valve
6.2	Size	DN100
6.3	Fluid to be Handled	Raw Water
6.4	Fluid State	Liquid
6.5	Operation	Manual
7	Valve Design Standard	
7.1	Design Temperature	50°C
7.2	Design Pressure	PN 10
7.3	End Connection Size	Wafer End, Suitable for - ASME B16.5 150#, EN 1092-2:1997 (Table 9)
8	Material of Construction	
8.1.	Shaft	Stainless steel 304
8.2.	Body	UPVC
8.3.	Disc	UPVC
8.4.	Stem Material	SS
8.5.	Rubber Seal	Ethylene propylene diene monomer (EPDM)
8.6.	Shaft Bearing Material	POM
9	Testing & Inspection Detail	
9.1.	Hydraulic testing pressure	10 Bar
10	Orifice detail	DN100

Recommended for Approval

138 Paut

(B.S. RAWAT)

Chief Engineer, E/M.

Water Resources Department,

Bhopal (M.P.)



Executive Engineer
Water Resources Division
Neemuch (M. P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

Divisional Officer
Water Resources Sub-Division
Rampura (M.P.)

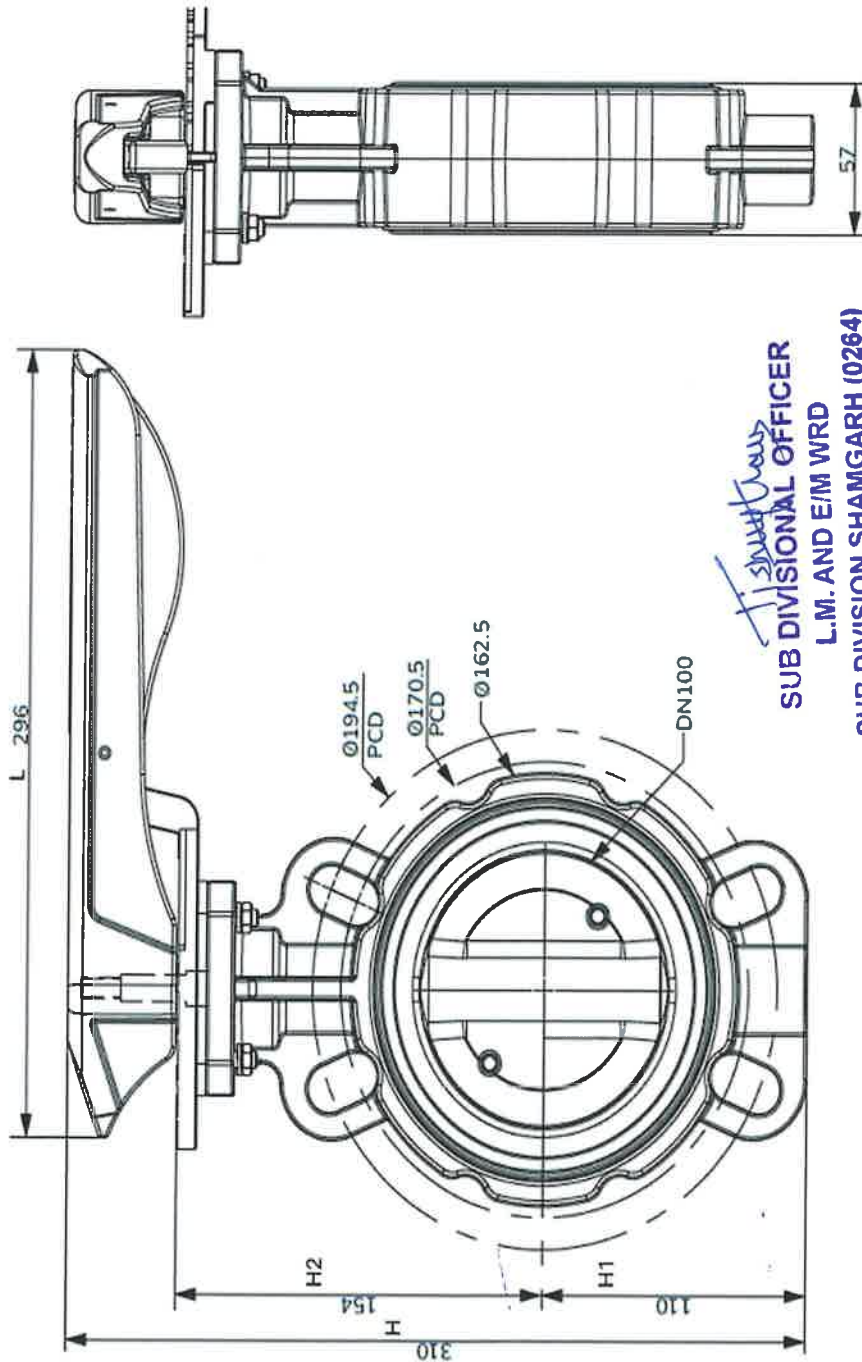
ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh

GST No : 23AAHCH5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@avkawt.com

Chief Engineer
Water Resources Department
Ujjain (36) M.P.

BUTTERFLY VALVE GAD – DN100 (PN16)



T. Shrivastava
SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

Diameter (mm)	Inner PCD (mm)	Outer PCD (mm)	L (mm)	H1 (mm)	H2 (mm)	H (mm)
DN100	170.5	194.5	296	110	154	310



ACMO Water Technology India Pvt Ltd

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[Signature]
Executive Engineer
Water Resources Division
Narmada (M.P.)

[Signature]
Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

[Signature]
Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

[Signature]
B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

[Signature]
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

DATASHEET FOR BUTTERFLY VALVE DN100 (PN16)		
Sr. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PC IPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make /ACMO
6	General Operating Specification	
6.1	Valve Type	Butterfly valve
6.2	Size	DN100
6.3	Fluid to be Handled	Raw Water
6.4	Fluid State	Liquid
6.5	Operation	Manual
7	Valve Design Standard	
7.1	Design Temperature	50°C
7.2	Design Pressure	PN 16
7.3	End Connection Size	Wafer End, Suitable for - ASME B16.5 150#, EN 1092-2:1997 (Table 9)
8	Material of Construction	
8.1.	Shaft	Stainless steel 304
8.2.	Body	UPVC
8.3.	Disc	Ductile Iron
8.4.	Stem Material	SS
8.5.	Rubber Seal	Ethylene propylene diene monomer (EPDM)
8.6.	Shaft Bearing Material	POM
9	Testing & Inspection Detail	
9.1.	Hydraulic testing pressure	16 Bar
10	Orifice detail	DN100

Recommended for Approval

138 Pmt
(B.S. RAWAT)
Chief Engineer, E/M

Water Resources Department,
Bhopal (M.P.)



Executive Engineer
Water Resources Division
Nagpur (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh
GST No. : 23AAHGN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@avkawt.com

Chief Engineer
Water Resources Department
Ujjain (36) M.P.

SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal,

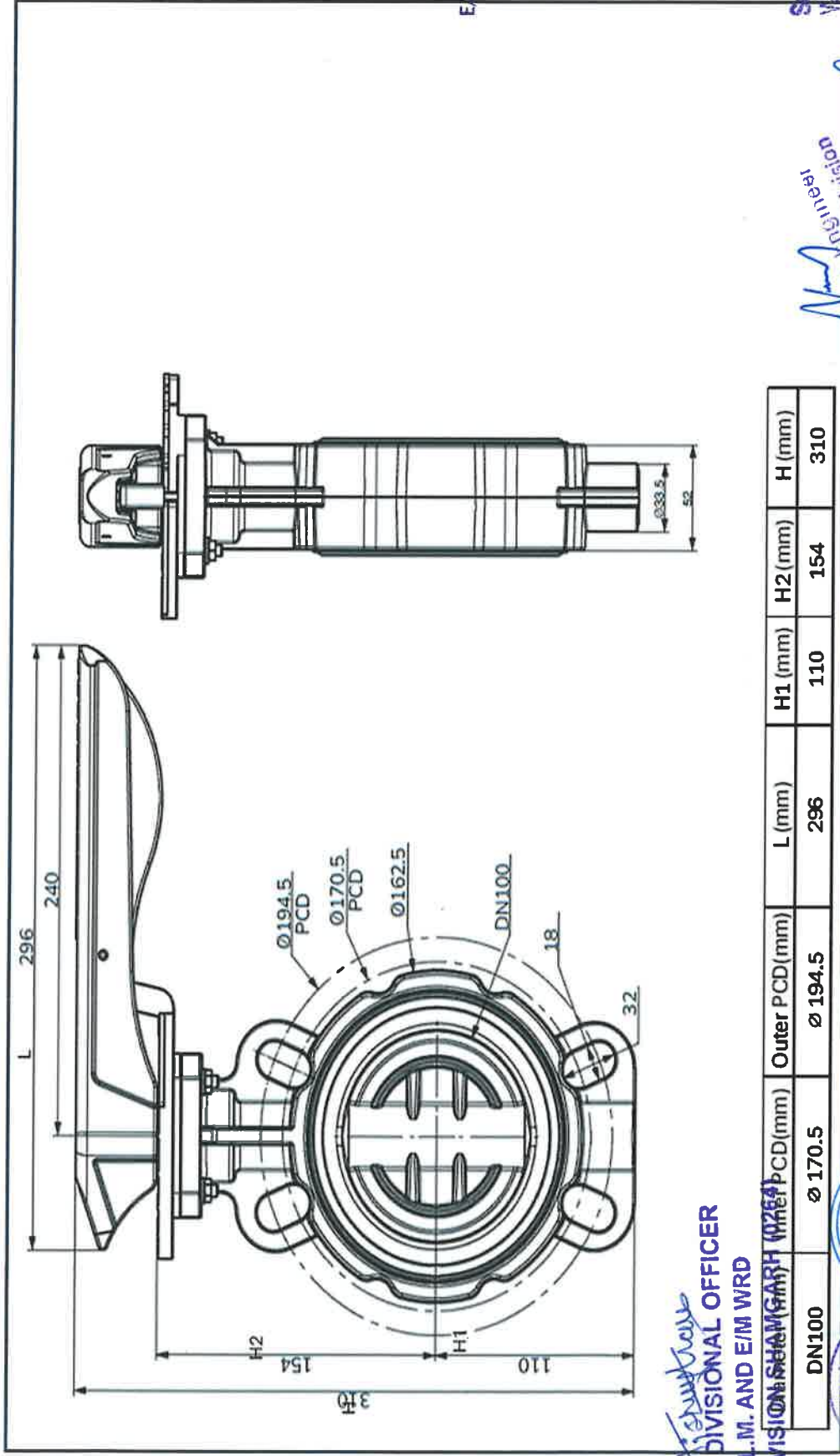
(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain



RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT



BUTTERFLY VALVE GAD – DN100 (PN10)



SUB DIVISIONAL OFFICER
L.M. AND E/M WRD

SUB DIVISIONAL OFFICER (WRD)



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Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No : 23AAHGN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@awkawt.com

Executive Engineer
Water Resources Division
Meerut (M.P.)

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGENDR DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division U

DATA SHEET FOR STRAINER		
S. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PC IPL JV
4	Sub - Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make /ACMO
S. No.	Item	Specification
1	Size	DN100
2	Pressure Rating	PN 10/16
Manufacturing Design		
1	Fluid to be handled	Raw water
2	Type	Y-Type
3	Working Pressure	0-10/16 Bar
4	End	Connection Flange EN1092-2
Construction Features		
1	Body	Nylon GF
Material Specification		
1	Body	Nylon GF
2	Mesh	AISI 304 (Mesh Hole Size 2mm screen)
Hydrostatic Testing Parameter		
1	Body Test	10/16 Bar

Recommended for Approval

128/24

(B.S. RAWAT)
Chief Engineer, E/M.
Water Resources Department,
Bhopal (M.P.)

NOTE:- A self cleaning
secondary filtration system
with 150 micron filter at 30 h/dms
should be installed

150 micron filter



Executive Engineer
Water Resources Division
Meerut (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Chief Engineer
Water Resources Department
Ujjain (36) M.P.

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

Tishu
SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

ACMO Water Technology India Pvt Ltd

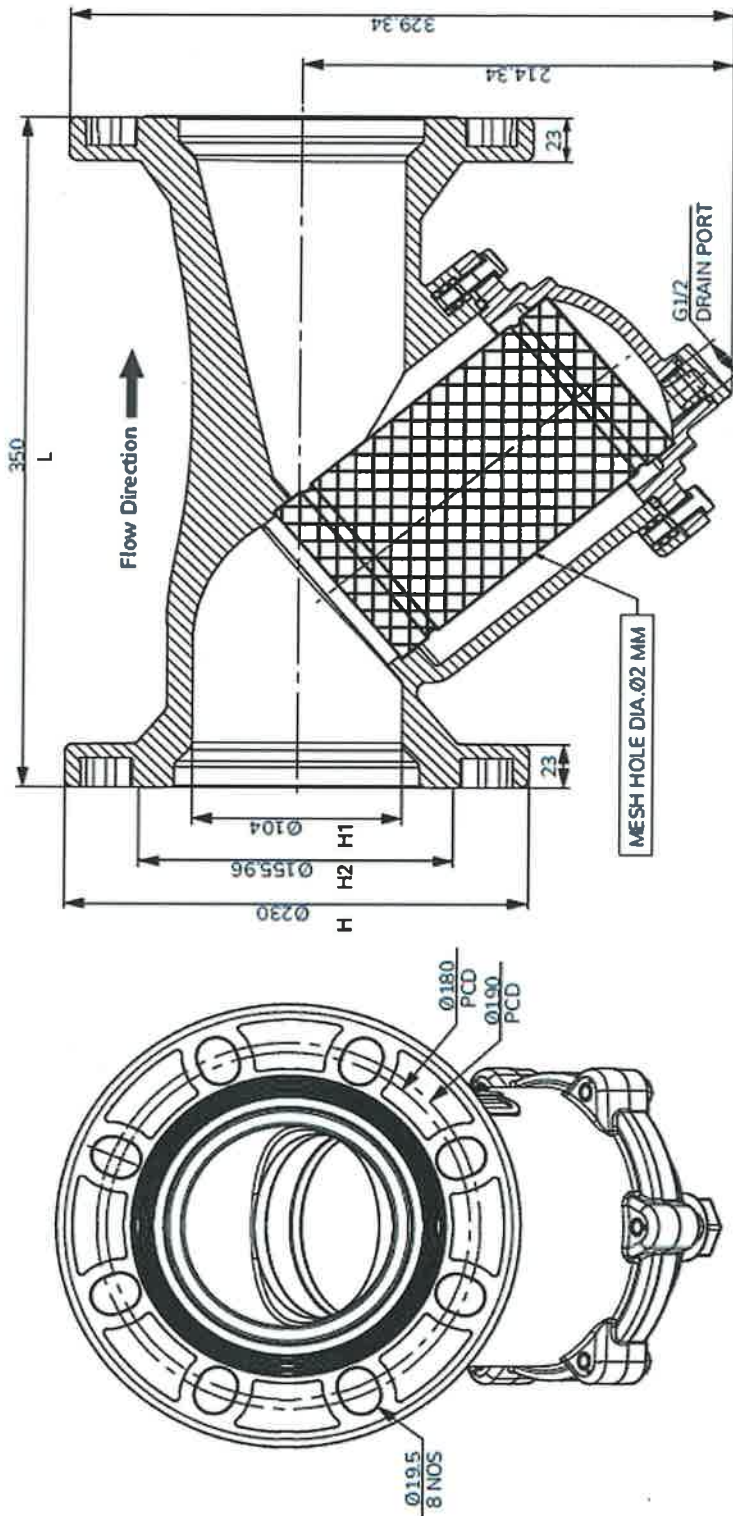
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B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

Y- TYPE STRAINER GAD – DN100, Mesh 2mm



Diameter (mm)	No of Holes (Qty)	Inner PCD(mm)	Outer PCD(mm)	Length (L)	H1 (mm)	H2 (mm)	H (mm)
DN100	08 Nos	Ø180	Ø190	350 mm	104	155.96	230



Chief Engineer
ACMO Water Technology India Pvt. Ltd. Water Resources Department

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal-462026, Madhya Pradesh
GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.avk-bharat.com, info@avkwt.com

B.S. Mehta
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & Effluent
Water Resources Division U.P.

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

DATA SHEET FOR PFCMD		
S. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make /ACMO
S. No.	Item	Specification
1	Model No	HK
2	Size Range	DN100
3	Pressure Rating	PN 10/16
GENERAL		
1	Flange Drilling Standard	EN1092-2 (ISO 7005-2)
2	Operation	Solenoid Operated
3	End Connection	Flanged
4	Flow Meter	Paddle Wheel Flow Meter
MATERIAL OF CONSTRUCTION		
1	Body	Ductile iron GJS-400-15
2	Diaphragm	Rubber SBR
3	Hydraulic Valve Cover	Ductile iron GJS-400-15
4	Spring	Stainless Steel
5	Circuit Fitting	Plastic/Brass
6	Solenoid	12 VDC, Latch Coil, Plastic
7	Flow Metering	Standard EN 14268
TESTING		
1	Testing Standard	EN12266-1 (ISO 5208)
2	Body Test	PN 10/16
PAINTING SPECIFICATION		
1	Painting	Epoxy powder coating with minimum 150 microns thickness

Recommended for Approval

13/5/2021

(B.S. RAWAT)

Chief Engineer, E/M.

Water Resources Department,

Bhopal (M.P.)



Executive Engineer
Water Resources Division
Raichur (M. P.)

Superintending Engineer
Water Resources Circle
Raichur (M.P.)

Chief Engineer
Water Resources Department
Ujjain (36) M.P.

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh

GST No : 23AAHCN5259N120. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@avkawt.com

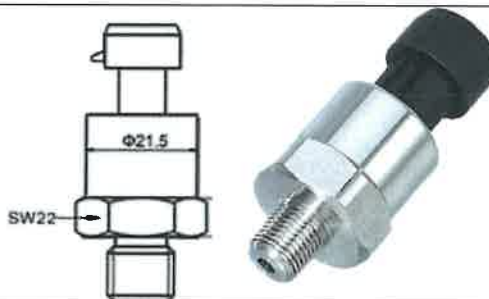
SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

DATASHEET FOR PRESSURE TRANSDUCER

S. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make / ACT
S. No.	Item	Specification
1	Instrument	Pressure transducer
2	Model No	ASPT-11e
3	Pressure Range	0-16 Bar
General Details		
1	Power Supply	5VDC
2	Process Connection	1/4" M BSP
3	Accuracy	$\pm 0.5\%$ FS
4	Output Signal	0.5-4.5V
5	Thermal Limits (Compensated Range)	-20 to 85 °C
6	IP grade	IP67
7	Response Time	≤ 1 ms
DIMENSION DRAWING		



Tishu
SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

Recommended for Approval
B.S. Rawat
(B.S. RAWAT)
Chief Engineer, E/M.
Water Resources Department,
Bhopal (M.P.)

Chief Engineer
Water Resources Department
Ujjain (36) M.P.



ACMO Water Technology India Pvt Ltd
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GST No : 23AAHCN5259N120. CIN No : U74999MP2021PTC055600. www.awt-india.com, info@awkawt.com

Executive Engineer
Water Resources Division
Bhopal (M.P.)

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

B.S. Meena
Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

DATA SHEET FOR OUTLET SOLENOID VALVE		
Sr. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make /ACMO
6	General Operating Specification	
6.1	Valve Type	Solenoid Valve, 12 VDC
6.2	Size	50 mm
6.3	Fluid to be Handled	Raw Water
6.4	Fluid State	Liquid
6.5	Operation	Solenoid Operated
7	Valve Design Standard	
7.1	Design Temperature	50°C
7.2	Design Pressure	PN 10
7.3	End Connection Size	Threaded 2" BSPT (M)
8	Material of Construction	
8.1	Body	Nylon GF
9	Testing & Inspection Detail	
9.1	Hydraulic Pressure Test	10 Bar
10	Working Principle	The solenoid-operated diaphragm valve relies on the interaction between the solenoid, plunger, and diaphragm to control the flow of fluid. The electrical actuation of the solenoid influences the position of the diaphragm, determining whether the valve is open or closed, and thereby regulating the flow of the fluid through the system.

Recommended for Approval

B.S. Rawat
(B.S. RAWAT)

Chief Engineer, E/M.
Water Resources Department,
Bhopal (M.P.)



ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashirwa Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
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Tishu
SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

B
Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

B.S. Meena
Chief Engineer
Water Resources Department
Ujjain (36) M.P.
Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

Yogesh Dubey
(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain



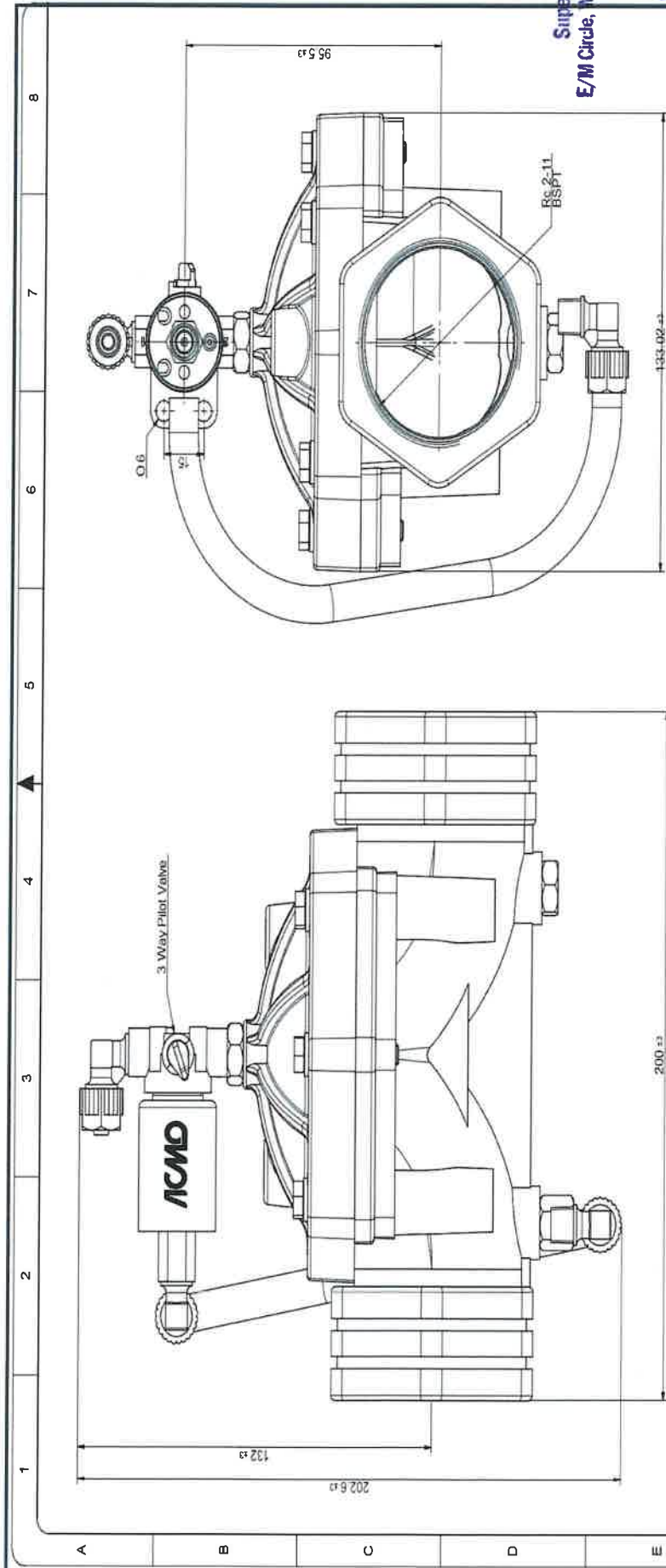
MP BIRLA
GROUP



Member of the AVK Group

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

SOLENOID VALVE GAD – DN 50



Title : 2" BSPT NYLON GF EXTERNAL PILOT OPERATED WITH 12V DC 02W LATCH WITH FITTING KIT		DRG NO : UFENN849PV0-TNN019PZDM012V0-WFG0202LC3-FKENN822PV0-AS-R00		PART CODE : ENN849PV0-TNN019PZDM012V0-WFG0202LC3-FKENN822PV0		STANDARD : REV NO : 00	
Drawn	Date	Sign	Material	Weight	Hardness	Scale	DO NOT SCALE IF IN DOUBT ASK
Checked	20-01-2023	Rathod					
Approved	20-01-2023	Jayesh					
DATE		SIGN					

SUB DIVISIONAL OFFICER
L.M. ANDERSON
SUB DIVISION SHAMGARH (0284)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & Electrical
Water Resources Division U

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

ACMO Water Technology India Pvt Ltd
Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh
GST No : 23AAHCN5259N170. CIN No : U74999MP2021PT0055600. www.awt-bharat.com, info@awt.com



DATA SHEET FOR RTU CONTROLLER

S. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Manufacturer	WRD Approved Make /ACMO
Power Supply	Input Power	3.6 V DC (200 mA)
Battery	No of Batteries	1
	Battery Type	Lithium Battery
	Battery Capacity	19 Ah
	Workable Temperature	-65 Deg C to 85 Deg C
	No of Days of Backup	Minimum 2 years ON- in Rabi season remaining - OFF
Main MCU	Processor	32 BIT ARM CORTEX M4F @ 30MHZ
	Memory	1024 KB Flash, 256 KB SRAM, 6KB EEPROM
Ports	TTL port	For windows configuration and debug logs
Storage	SD Card	SD Card Slot supporting up to 32GB
Digital Inputs	Total Channels	3
	Type	High speed for pulse counting
	Isolation	Non isolated
Digital Outputs	Total Channels	20
	Type	Open Drain output
	Maximum load	1 Amps
Analog Inputs	Number of Channels	5
	Type	Two 4-20mA Two Numbers 0-5 Volts One internal ADC
	Resolution	12 bits
	Accuracy	0.20%
Physical & Environmental	Operating Temperature	-20 C to 70 C
	Humidity	Up to 80%
	Enclosure type	ABS Plastic, IP65
	Size	275 x 190 x 135 mm (L x W x H)
Communication	Protocol	LoRaWAN
Configuration	Local	Through TTL Port (Debug Port)
	Remote	From Application Server Through LoRaWAN network

Recommended for Approval

(B.S. RAWAT)
Chief Engineer, E/M.
Water Resources Department,
Bhopal (M.P.)

Chief Engineer

Water Resources Department
Bhopal (M.P.)

Superintending Engineer

E/M Circle, Water Resources Department

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

(YOGESH KUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain



ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh

GST No: 23AAHCN5259N120, CIN No: U74999MP2021PTC055600, www.awt-bharat.com, info@awt.com

SUB DIVISIONAL OFFICER

L.M. AND E/M WRD

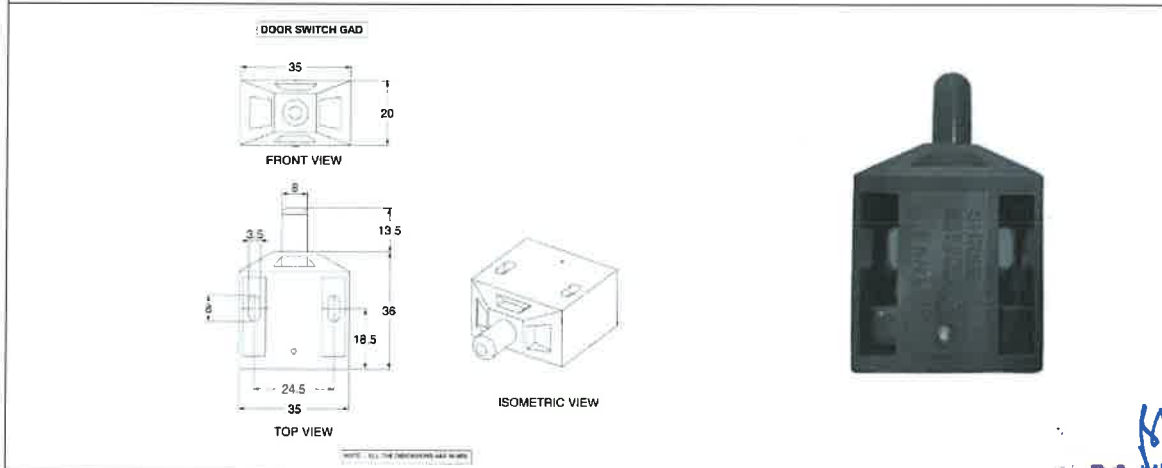
SUB DIVISION SHADGAM (0264)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

DATASHEET FOR DOOR SWITCHES

S. No.	Description	Project Detail and Specification
1	Project	Rampura-Manasa Micro Major Irrigation Project
2	Client	Water Resources Department
3	Contractor	VTL-JGI-PCIPL JV
4	Sub-Contractor	ACMO Water Technology India Pvt. Ltd.
5	Supplier	WRD Approved Make / ACMO
S. No.	Item	Specification
	AC / DC Rating Code	DS
1	Operation	Push to Off
2	Contact rating (resistive) screw terminal	5 Amp – 250 VAC
3	Rated operational voltage	0-240 VAC / 24 VDC
4	Operating force	350-400 gms
5	Thickness of panel	2-5mm
6	Circuitry	Single pole spring return
7	Type of terminal	Screw
8	Mounting	Screw on both side
9	Insulation resistance (at 500 V DC)	20±0.20 MΩ
10	Temperature category	40°C to 70°C
11	Standard	1S: 6875 part III
12	Mounting Hardware	Not provide with the switch
13	Dimensions	49.5x35x20 (±2) mm
14	High Voltage Test (60 sec)	1.5kV

MOUNTING DIMENSION



ACMO Water Technology India Pvt. Ltd.

Corporate Office Address : Maple High Street, In front of Anilma Mall, Boshang Road, Bhopal - 462026, Madhya Pradesh

GST No: 23AAHCN5259N120, CIN No: U74999MP2021PTC053400, www.awt-bharat.com, info@awt.com

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

Sub Divisional Officer
Water Resources Sub Division
Bhopal (M.P.)

(YOGESH DUBBY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

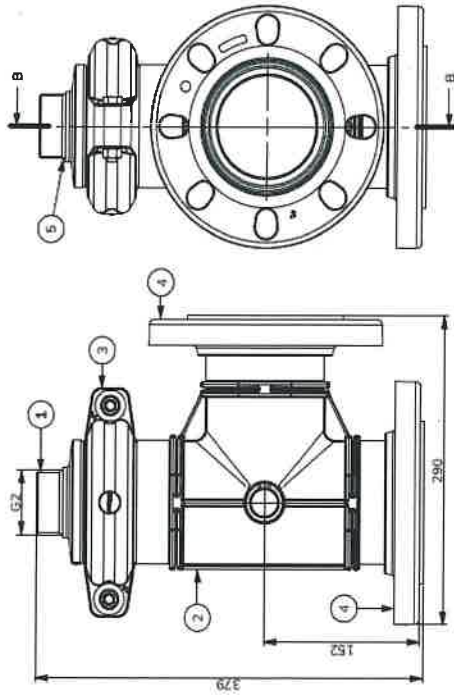
Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

T. S. S. S. S.
S.D. E/M

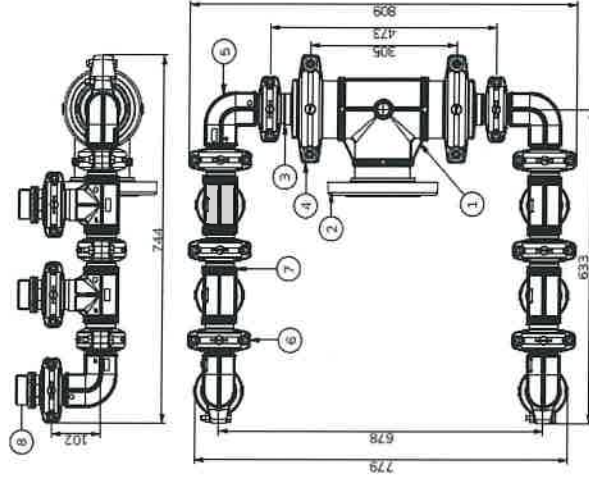
RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

INLET MANIFOLD & OUTLET GAD

INLET MANIFOLD



OUTLET MANIFOLD



B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Udaipur

SUB DIVISIONAL OFFICER

L.M. AND E/M WRD ACMO Water Technology India Pvt Ltd

Plot No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

Sub Divisional Officer

Water Resources Sub Division

Rampura (M.P.)

Superintending Engineer
Water Resources Circle
Ratan (M.P.)



OMS COMPONENTS QAP

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh
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AVK
Member of the AVK Group

[illegible]

atlam (M.P.)

CONCERN

Il Bhupal



RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

		QUALITY ASSURANCE PLAN		Doc No.: R0	06	Recommended for Approval
Project Name:		AIR VALVE		Rev:	R0	
Client:		Rampura-Manasa Micro Major Irrigation Project		Doc Issue Date:	05.12.25	128 Jan 2026
Main Contractor:		Water Resources Department		Page:	01	(P.O. DAVAT)
Contractor:		VTL-JGI-PCIPL JV		QAP Ref No.:	Std QAP/ 06	Chief Engineer E/M
Supplier:		ACMO Water Technology India Pvt. Ltd.		Doc Submission Date	05.12.25	Water Resources Department,
		WRD Approved Make /ACMO.		Drawing Ref:	AWT/VTL/QAP/06	Bhopal (M.P.)

No	Item Name	Material	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	M	AWT	Client/ Contractor	Remarks
A Raw Components											
1	Body	Nylon	Polymer Analysis	Lab Test	1 per Lot	Approved Drawing	MTC	P	V	V	MTC for verification only
2	Float	Nylon	Polymer Analysis	Lab Test	1 per Lot	Approved Drawing	MTC	P	V	V	
A FINAL INSPECTION:											
1	Air Valve Assembly	Hydro Test	Pressure Test	At PN10/16 (Preferred direction)	10%	Approved Datasheet	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
		Function Test	Performance at NO flow condition opening /closing of valve	External Air to be given	10%	Approved Datasheet	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
		Dimensional Check & Visual	Workmanship & Dimension check	Visual	10%	Approved Drawing	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
		Surface Quality	Surface Finish	Visual	10%	Approved Drawing	Inspection Report	P	W	V	100% Size by AWT

P	Performed By	Sub-contractor - AWT		Main Contractor		Client - WRD	
W	Witnessed By	Signature:		Signature:		Signature:	
V	Document Verification at site						
M	Manufacturer						

SUB DIVISIONAL OFFICER

L.M. AND E/M WRD

SUB DIVISION SHAMGARH (0264)

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@awkawt.com

B.S. Meena

Superintending Engineer

Water Resources Division

Neemuch (M. P.)

(VOGESH DUBEY)

Executive Engineer

Light Machinery & EM

Production Division



RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT



				QUALITY ASSURANCE PLAN				Doc No.: 03		03													
				BUTTERFLY VALVE				Rev: R0		R0													
Project Name:				Rampura-Manasa Micro Major Irrigation Project				Doc Issue Date:		05.12.25													
Client:				Water Resources Department				Page:		01													
Main Contractor:				VTL-JGI-PCIPLJV				QAP Ref No.:		Std QAP/ 03													
Contractor:				ACMO Water Technology India Pvt. Ltd.				Doc Submission Date:		05.12.25													
Supplier:				WRD Approved Make /ACMO.				Drawing Ref:		AWT/VTL/QAP/03													
										Chief Engineer, E/M.													
										Water Resources Department,													
										Bhopal (M.P.)													
S No		Item Name		Material		Characteristic Checked		Method Of Checking		Checking Frequency		Acceptance Norm		Format or Record		M		AWT		Client/ Contractor		Remarks	
A		Raw Components																					
1		Body		UPVC		Polymer Analysis		Lab Test		1 Per lot		Approved Drawing		MTC		P		V		V		MTC for Verification only	
2		Disc		UPVC						1 Per lot		Approved Drawing		MTC		P		V		V			
3		Gasket Seal Ring		EPDM		WRAS Certificate		Supplier Rubber Specification		1 Per lot		Approved Drawing		MTC		P		V		V			
B		Final Valves																					
1		Butterfly valve Assembly		Physical Test & Dimensional Check		Workmanship & Dimension check Surface Finish		Visual & Measurement		10%		Approved Datasheet		Inspection Report		P		W		V		100% Manufacturer, 10%/Size by AWT	
				Body Test		Hydraulic Test after assembly		Testing At PN 10 (Preferred direction)		10%		Approved Drawing		Inspection Report		P		W		V		100% Manufacturer, 10%/Size by AWT	
				Seat Test				Testing At PN 10 (Preferred direction)		10%		Approved Drawing		Inspection Report		P		W		V		100% Manufacturer, 10%/Size by AWT	
P		Performed By				Sub-contractor - AWT				Main Contractor												Client - WRD	
W		Witnessed By								Signature:												Signature:	
V		Document Verification at site																					
M		Manufacturer																					
SUB DIVISIONAL OFFICER L.M. AND E/M WRD				SUB DIVISIONAL OFFICER Rampura (M.P.)				Sub Divisional Officer Water Resources Sub Division Rampura (M.P.)				Executive Engineer Water Resources Division Neemuch (M. P.)				Superintending Engineer Light Machinery & E/M Water Resources Division Ujjain				(YOGESH DUBEY) Executive Engineer Light Machinery & E/M Water Resources Division Ujjain			
SUB DIVISION SHAMGARH (0264)				Chief Engineer ACMO Water Technology India Pvt Ltd Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh GST No.: 29AMGNS259N120, CIN No : U74999MP2021PTC055600, www.awt-bharat.com, info@awt.com				Ujjain (36) M.P.															



RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT



		Doc No.: 03	
Project Name: Rampura-Manasa Micro Major Irrigation Project		Rev: R0	
Client: Water Resources Department		Doc Issue Date: 05.12.25	
Main Contractor: VTL-JGI-PCIPL JV		Page: 01	
Contractor: ACMO Water Technology India Pvt. Ltd.		QAP Ref No.: Std QAP/ 03	
Supplier: WRD Approved Make /ACMO.		Doc Submission Date: 05.12.25	
		Drawing Ref: AWT/NTL/QAP/03	
		Chief Engineer, E/M	
		Water Resources Department,	
		Bhopal (M.P.)	

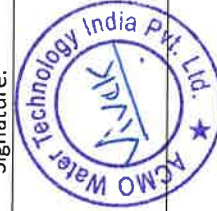
S No	Item Name	Material	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	M	AWT	Client/ Contractor	Remarks
A	Raw Components										
1	Body	UPVC	Polymer Analysis	Lab Test	1 Per lot	Approved Drawing	MTC	P	V	V	MTC for Verification only
2	Disc	Ductile Iron	Chemical & Mechanical Properties	Foundry mill certificate review	1 Per lot	Approved Drawing	MTC	P	V	V	
3	Gasket Seal Ring	EPDM	WRAS Certificate	Supplier Rubber Specification	1 Per lot	Approved Drawing	MTC	P	V	V	
B	Final Valves										
1	Butterfly valve Assembly	Physical Test & Dimensional Check	Workmanship & Dimension check Surface Finish	Visual & Measurement	10%	Approved Datasheet	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
		Body Test	Hydraulic Test after assembly	Testing at 1.5 x PN	10%	Approved Datasheet	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
		Seat Test	Hydraulic Test after assembly	Testing at 1.1 x PN	10%	Approved Drawing	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT

P	Performed By	Signature:	Client -WRD
W	Witnessed By	Signature:	
V	Document Verification at site		
M	Manufacturer		

SUB DIVISIONAL OFFICER

L.M. AND E/M WRD

SUB DIVISION SHAMGARH (0264)



Executive Engineer
Water Resources Sub Division
Rampura (M.P.)

Executive Engineer
Water Resources Division
Neemuch (M. P.)

Superintending Engineer
Light Machinery & E/M
Water Resources Division Ujjain

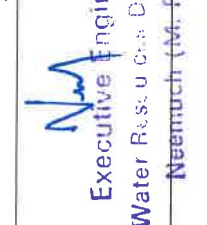
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

Corporate Office Address: Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh

GST No: 22AAACW0299N120-CPM No: U74999MP2021PTC055600. www.awt-bharat.com, info@avkawi.com

Ujjain (36) M.P.

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

 Member of the AVK Group		QUALITY ASSURANCE PLAN										Doc No.:	05
		STRAINER										Rev:	R0
Project Name:		Rampura-Manasa Micro Major Irrigation Project										Doc Issue Date:	05.12.25
Client:		Water Resources Department										Page:	01
Main Contractor:		VTL-JGI-PCIPL JV										QAP Ref No.:	Std QAP/ 05
Contractor:		ACMO Water Technology India Pvt. Ltd.										Doc Submission Date:	05.12.25
Supplier:		WRD Approved Make /ACMO										Drawing Ref:	AWT/VTL/QAP/05
No	Item Name	Material	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or record	M	AWT	Client/ Contractor	Remarks		
A Raw Components													
1	Body, Cover	Nylon GF	Polymer Analysis	Lab Test	1 Per lot	Approved Drawing	MTC	P	V	V	MTC for Verification only		
B Final Valve													
1	Valve	Physical Test	Workmanship & Dimension check	Visual & Measurement	10%	Approved Drawing	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT		
2	Assembled	Hydro Test	Pressure Test	At PN10/16 (Preferred direction)	10%	Approved Drawing	Pressure Test Report	P	W	V	100% Manufacturer, 10%/Size by AWT		
P	Performed By	Sub-contractor - AWT				Main Contractor				Client - WRD			
W	Witnessed By	Signature:				Signature:				Signature:			
V	Document Verification at site												
M	Manufacturer												

Recommended for Approval

(B.S. Rawat)

(B.S. RAWAT)

Chief Engineer, E/M,
Water Resources Department,
Bhopal (M.P.)

(Tishu Chauhan)
SUB DIVISIONAL OFFICER

L.M. AND E/M WRD

SUB DIVISION SHAMGARH (0264)

ACMO Water Technology India Pvt. Ltd.
Corporate Office Address : Maple High Street, in front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No : 23AAHCN5259N1ZO. CIN No : U74999MP2021PTC055600. info@avkwt.com

(Tishu Chauhan)
SUB DIVISIONAL OFFICER

Rampura (M.P.)

Water Resources Sub Division

(B.S. Rawat)
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal
Chief Engineer
Water Resources Department,
Bhopal (M.P.)

(B.S. Meena)

Superintending Engineer

E/M Circle, Water Resources Deptt. Bhopal

Chief Engineer
Water Resources Department,
Bhopal (M.P.)

(Nagesh Dubey)

Executive Engineer

Light Machinery & E/M

Water Resources Division Ujjain

Ujjain (36) M.P.

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

QUALITY ASSURANCE PLAN									
Project Name:		Doc No.:		Rev:		Doc Issue Date:		Page:	
PFCMD VALVE		01		R0		05.12.25		01	
Client:		Rampura-Manasa Micro Major Irrigation Project		QAP Ref No.:		Std QAP/ 01		05.12.25	
Main Contractor:		Water Resources Department		Doc Submission Date		AWT/VTL/QAP/01		Chief Engineer E/M	
Contractor:		VTL-JGI-PCIPLJV		Drawing Ref:				Water Resources Department, Bhopal (M.P.)	
Supplier:		ACMO Water Technology India Pvt. Ltd.							
		WRD Approved Make /ACMO.							
No	Item Name	Material	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	Agency	Remarks
A Material									
1	Body, cap	Ductile Iron - EN1563 - GJS-400-15	Chemical & Mechanical Properties	Foundry mill certificate review	1 Per lot	Approved Drawing	Foundry Mill Certificate	P V	MTC only for Verification
B Valves assembled									
1	Valves assembly	Physical Test	Visual & Dimension check	Visual & Measurement	10%	Approved Drawing	Final inspection record (GA dimension)	P W	
2	Valves assembly	Function Test	Smooth operation	Open / Close operation	10%	Approved Drawing	Final inspection record (GA dimension)	P W	
3	Valves assembly	Body Test	Hydrostatic Test after assembly (Post blasting & powder coating)	Testing at 1.5XPN	10%	As per Approved drawing/ EN12266-1	Pressure test report	P W	100% Manufacturer, 10%/Size by AWT
Vendor - AWT									
P	Performed By	Manufacturer -AWT		Signature:		Main Contractor -VTL		Client -WRD	
W	Witnessed By			Signature:				Signature:	
V	Document Verification at site			Signature:				Signature:	
M	Manufacturer			Signature:				Signature:	

Water Resources Division
Neemuch (M. P.)

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

Sub Divisional Officer
L.M. AND E/M WRD
SUB DIVISION SHAM
ACMO Water Technology India Pvt. Ltd.
Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal S. 462026, Madhya Pradesh
GST No : 23AAHCN5259N1Z0, CIN No : U74999MP2021PTC055600, www.awt-bhopal.com, info@awt.com

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Chief Engineer
ACMO Water Technology India Pvt. Ltd.
Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal S. 462026, Madhya Pradesh
GST No : 23AAHCN5259N1Z0, CIN No : U74999MP2021PTC055600, www.awt-bhopal.com, info@awt.com

Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

Executive Engineer
High Machinery & E/M
Water Resources Division Ujjain

Executive Engineer
High Machinery & E/M
Water Resources Division Ujjain

Executive Engineer
High Machinery & E/M
Water Resources Division Ujjain



RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

ACMO Member of the AVK Group		QUALITY ASSURANCE PLAN					Doc No.: Rev:		04 R0	
PROJECT NAME: Rampura-Manasa Micro Major Irrigation Project		PRESSURE TRANSDUCER					Doc Issue Date: Page:		05.12.25 01	
CLIENT: Water Resources Department							QAP Ref No.:		Std QAP/ 04	
MAIN CONTRACTOR: VTL-JGI-PCIPL JV							Doc Submission Date		05.12.25	
CONTRACTOR: ACMO Water Technology India Pvt. Ltd.							Drawing Ref:		AWT/VTL/QAP/04	
SUPPLIER: WRD Approved Make /ACMO.										
No	Item Name	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	M	AWT	Client/ Contractor	Remarks
A Raw Material										
1	Process Connection	Chemical Composition	Chemical Test	1 Sample/Lot	EN 10204	MTC	P	V	V	
2	Seal Diaphragm	Chemical Composition	Chemical Test	1 Sample/Lot	EN 10204	MTC	P	V	V	
3	Sensor & Wetted Part	Grade & Chemical Composition	Chemical Test	1 Sample/Lot	EN 10204	TC	P	V	V	
A FINAL INSPECTION:										
1	Pressure Transducer	Check for Model No, Serial No & Accessories	Visual	10%	Technical datasheet	Inspection Report	P	W	V	
		Dimensional Check	Measurement	10%	Technical datasheet	Inspection Report	P	W	V	
		Power On & Display Parameters Check	Visual	10%	Technical datasheet	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
		Insulation resistance (Transducer Terminals)	Measurement	10%	Technical datasheet	Inspection Report	P	W	V	
		Accuracy/Calibration Check	Electrical	10%	Technical datasheet	Inspection Report	P	W	V	
P Performed By		Sub-contractor - AWT			Main Contractor			Client -WRD		
W Witnessed By		Signature:			Signature:			Signature:		
V Document Verification at site										
M Manufacturer										

SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

ACMO Water Technology India Pvt Ltd
Corporate Office Address : Maple High Street, In front of Ashirwad Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No : 23AAHCN5259N1Z0, CIN No : U74999MP2021PTC055600, www.awt-bharat.com, info@awt.com

B.S. Meena
Superintending Engineer
Water Resources Deptt. Bhopal

(VOGESHBUSEY)
Executive Engineer
Light Machinery & E/M
Water Resources Division Ujjain

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

S No		Item Name	Material	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	M	AWT	Client/ Contractor	Remarks
QUALITY ASSURANCE PLAN OUTLET SOLENOID VALVE												
Project Name: Rampura-Manasa Micro Major Irrigation Project Client: Water Resources Department Main Contractor: VTL-JGI-PCIP L JV Contractor: ACMO Water Technology India Pvt. Ltd. Supplier: WRD Approved Make /ACMO.												
Doc No.: 08 Rev: R0 Doc Issue Date: 05.12.25 Page: 01 QAP Ref No.: Std QAP/ 08 Doc Submission Date: 05.12.25 Drawing Ref: AWT/VTL/QAP/08												
Recommended for Approval												
A	Raw Components											
1	Body	Nylon	Polymer Analysis	Lab Test	1 Per lot	Approved Drawing	MTC		P	V	V	MTC for Verification only
2	Cap	Reinforced Polypropylene		Lab Test	1 Per lot	Approved Drawing	MTC		P	V	V	MTC for Verification only
B	Final Valves											
1	Outlet Solenoid Valve Assembly	Hydro Test	Seat Pressure Test	PN 10	100%	Approved Datasheet	Inspection Report		P	W	V	100% Manufacturer, 10%/Size by AWT
			Body Pressure Test	PN 10	100%	Approved Datasheet	Inspection Report		P	W	V	100% Manufacturer, 10%/Size by AWT
			Workmanship & Dimension check	Visual	100%	Approved Drawing	Inspection Report		P	W	V	100% Manufacturer, 10%/Size by AWT
			Surface Finish	Visual	100%	Approved Drawing	Inspection Report		P	W	V	100% Manufacturer, 10%/Size by AWT
P	Performed By	Client - WRD										
W	Witnessed By	Signature :										
V	Document Verification at site	Signature :										
M	Manufacturer	Signature :										

Signature :  Sub Divisional Officer, Water Resources Sub Division, Rampura (M.P.)
 Signature :  Executive Engineer, Water Resources Division, Bhopal (M.P.)
 Signature :  Superintending Engineer, Water Resources Circle, Raikam (M.P.)
 Signature :  B.S. Meena, Superintending Engineer, Water Resources Deptt. Bhopal (M.P.)
 Signature :  L.M. AND E/M WRD, 23AAHCN5259N1Z0, CIN No : U74999MP2021PTC055600, www.aawt.com, info@awt.com
 Signature :  Ujjain (36) M.P.
 Signature :  L.M. AND E/M WRD, 23AAHCN5259N1Z0, CIN No : U74999MP2021PTC055600, www.aawt.com, info@awt.com
 Signature :  Sub Divisional Officer, Water Resources Sub Division, Rampura (M.P.)
 Signature :  Executive Engineer, Water Resources Division, Bhopal (M.P.)
 Signature :  Superintending Engineer, Water Resources Circle, Raikam (M.P.)
 Signature :  B.S. Meena, Superintending Engineer, Water Resources Deptt. Bhopal (M.P.)
 Signature :  L.M. AND E/M WRD, 23AAHCN5259N1Z0, CIN No : U74999MP2021PTC055600, www.aawt.com, info@awt.com
 Signature :  Ujjain (36) M.P.

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

QUALITY ASSURANCE PLAN									
OMS CONTROLLER WITH INBUILT BATTERY & LORA MODULE									
Project Name:	Rampur-Manasa Micro Major Irrigation Project								Doc No.: 02
Client:	Water Resources Department								Rev: R0
Main Contractor:	VTL-JGI-PCIPL JV								Doc Issue Date: 05.12.25
Contractor:	ACMO Water Technology India Pvt. Ltd.								Page: 01
Supplier:	WRD Approved Make /ACMO.								QAP Ref No.: Std QAP/02
									Doc Submission Date: 05.12.25
									Drawing Ref: AWT/VTL/QAP/02

S No	Item Name	Material	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	M	AWT	Client/ Contractor	Remarks
A FINAL INSPECTION:											
1	OMS Controller	Check for Model No, Serial No & Accessories	Tag no	Visual	10%	Technical datasheet	Inspection Report	P	V	V	100% by Manufacturer 10%/Size by Superintending Engineer AWT E/M Circle, Water Resources Deptt. Bhopal
		Dimensional Check & Visual	Workmanship & Dimension check	Visual	10%	Technical datasheet	Inspection Report	P	W	V	
		Power On Check	Functionality	Visual	10%	Technical datasheet	Inspection Report	P	W	V	
		DO Operations	Functionality	Software based	10%	Technical datasheet	Inspection Report	P	W	V	
		Battery Voltage	Functionality	Electrical	10%	Technical datasheet	Inspection Report	P	W	V	
		Battery On Check	Functionality	Electrical	10%	Technical datasheet	Inspection Report	P	W	V	
		Surface Quality	Surface Finish	Finishing of final product	10%	Technical datasheet	Inspection Report	P	W	V	

Vendor - AWT				Main Contractor -VTL				Client -WRD			
P	Performed By	Signature:			Signature:			Signature:			
W	Witnessed By										
V	Document Verification at site										
M	Manufacturer										

SUB DIVISION SHAMGARH (02641)
L.M. AND E/M WRD
SUB DIVISIONAL OFFICER
ACMO Water Technology India Pvt. Ltd.
Water Resources Sub Division
Rampura (M.P.)
Water Resources Division
Neemuch (M. P.)
Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

B.S. Meena
Superintending Engineer
AWT E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & EM
Water Resources Division

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh
GST No. : 23AAHCN5259N1Z0. CIN No. : U74999MP2021PTC055600. www.awt-bharat.com, info@awt.com

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

 Member of the AVK Group		QUALITY ASSURANCE PLAN										Doc No.:	09
		OMS CHAMBER										Rev:	R0
		Project Name: Rampura-Manasa Micro Major Irrigation Project										Doc Issue Date:	05.12.25
		Client: Water Resources Department										Page:	01
Main Contractor:		VTL-GI-PCIPL JV										QAP Ref No.:	Std QAP/ 09
Sub-Contractor:		ACMO Water Technology India Pvt. Ltd.										Doc Submission Date	05.12.25
Supplier:		WRD Approved Make /ACMO										Drawing Ref:	AWT/VTL/QAP/09
No	Item Name	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	M	AWT	Client/ Contractor	Remarks			
A Raw Components													
1	Chemical test for Sheet & Angle	Chemical Composition	Chemical analysis	1 per Lot	Sheet- Thickness 0.8mm / Approved Drawing	MTC	P	V	V	MTC for verification only			
B FINAL INSPECTION:													
1	Final inspection	Dimensional	Measurement	10%	Approved Drawing	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT			
2	Final inspection	Workmanship	Visual	10%	Approved Drawing	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT			
P	Performed By	Sub-contractor - AWT											
W	Witnessed By	Main Contractor											
V	Document Verification at site	Signature:											
M	Manufacturer	Signature:											



Sub Divisional Officer
Water Resources Sub Division
Rampura (M.P.)

Executive Engineer
Water Resources Division
Neemuch (M.P.)

Superintending Engineer
Water Resources Circle
Ratlam (M.P.)

SUB DIVISIONAL OFFICER

L.M. AND EIM WRD

SUB DIVISION SHAMGARH (0264)

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh

GST No : 23AAHICN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@avkawl.com

Superintending Engineer

Executive Engineer

Water Resources Division Ujjain

RAMPURA-MANASA MICRO MAJOR IRRIGATION PROJECT

		QUALITY ASSURANCE PLAN				Doc No.: 10				
Project Name:		PEDESTAL FOR OMS CHAMBER				Rev: R0				
Client:		Rampur-Manasa Micro Irrigation Project				Doc Issue Date: 05.12.25				
Main Contractor:		Water Resources Department				Page: 01				
Sub-Contractor:		VTL-JGI-FCIPL JV				QAP Ref No.: Std QAP/ 10				
Supplier:		ACMO Water Technology India Pvt. Ltd.				Doc Submission Date: 05.12.25				
		WRD Approved Make /ACMO.				Drawing Ref: AWT/VTL/QAP/10				
No	Item Name	Characteristic Checked	Method Of Checking	Checking Frequency	Acceptance Norm	Format or Record	M	AWT	Client/ Contractor	Remarks
A FINAL INSPECTION:										
1	Final inspection	Surface finishing	Visual	10%	Free from defects	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
		Dimensional	Measurement	10%	Approved Drawing $\pm$ 10 mm	Inspection Report	P	W	V	100% Manufacturer, 10%/Size by AWT
P	Performed By	Sub-contractor - AWT			Main Contractor			Client - WRD		
W	Witnessed By	Signature:			Signature:			Signature:		
V	Document Verification at site							 Sub Divisional Officer Water Resources Sub Division Rampur (M.P.)		
M	Manufacturer				 Executive Engineer Water Resources Division Raikam (M.P.)			 Superintending Engineer Water Resources Circle Raikam (M.P.)		

SUB DIVISIONAL OFFICER
L.M. AND E/M WRD
SUB DIVISION SHAMGARH (0264)

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No : 23AAHCN5259N1ZD. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@awt.com

B.S. Meena
Superintending Engineer
E/M Circle, Water Resources Deptt. Bhopal

(YOGESH DUBEY)
Executive Engineer
Light Machinery & ERM
Water Resources Division Ujjain

ACMO WATER TECHNOLOGY APPROVAL DOCUMENT

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh
GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@avkawt.com

8 ACMO WATER TECHNOLOGY APPROVAL DOCUMENTS: -

Approval of OMS with SCADA, AMS with SCADA, Pump House Automation with SCADA on 03-10-2023:

कार्यालय मुख्य अभियंता (बोधी)

जल संसाधन विभाग, स्वारा भवन,

लिंक रोड नं. 3, कोलार रेस्ट हाउस के पीछे, भोपाल

दूरभाष क्रमांक 0755-2424038, 2426525 फैक्स नं. 0755, 2424833,

E-mail- eincbodhi@gmail.com

पत्र क्र. 211/6..... / नहर/बोधी/2023 भोपाल, दिनांक 24/01/2023

प्रति,

समस्त मुख्य अभियंता एवं परियोजना संचालक
जल संसाधन विभाग,
मध्यप्रदेश।

विषय:- जल संसाधन विभाग की प्रिफर्ड लिस्ट (Prefferd list) में कम्पनियों को सम्मिलित माना जाने बाबत।

- संदर्भ:- 1. कार्य विभाग मैनुअल वाल्युम-1 की कण्डिका 6.001 एवं निविदा प्रपत्र वाल्युम-3 तकनीकी स्पेशीफिकेशन Appendix -1 के प्रावधानों के तहत।
2. प्रमुख अभियंता, जल संसाधन विभाग, तुलसी नगर, भोपाल (म.प्र.) का आदेश क्र. 271/ई-टेण्डरिंग/2020-23/961, दिनांक 03/06/2022
3. कार्यालयीन पत्र क्र. 1958/नहर/द.ला./बोधी/2022, भोपाल, दिनांक 15/07/2022
4. कार्यालयीन पत्र क्र. 2151/नहर/द.ला./बोधी/2022, भोपाल, दिनांक 01/08/2022

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उपरोक्त संदर्भित पत्रों के परिप्रेक्ष्य में समिति द्वारा की गई अनुशंसा एवं फैंक्ट्रियों के भौतिक सत्यापन तथा एकलनस्ती क्र. 211/नहर/मु.अ./बोधी, भोपाल, दिनांक 23/01/2023 में प्रमुख अभियंता महोदय द्वारा अनुमोदन उपरांत निम्न कम्पनियों के विभिन्न प्रोडक्स को जल संसाधन विभाग अंतर्गत निर्मित, निर्माणाधीन एवं प्रस्तावित परियोजनाओं के विभिन्न अवयवों में उपयोग करने हेतु विभागीय प्रिफर्ड लिस्ट (Prefferd list) में निम्नलिखित कम्पनियों को सम्मिलित माना जाता है:-

S.NO.	COMPANY NAME & ADDRESS	ITEMS
1.	ACMO WATER TECHNOLOGY INDIA PVT. LTD. (AWT) Office No. 14, 15, 15A, 35 1st floor Maple High street In Front of Ashima Mall, Hoshangabad Road, Bhopal, Madhya Pradesh- 462026 (Email Add: shishir.shrivastava@avknexcity.com)	Outlet management system with SCADA (OMS), Air Management system with SCADA (AMS)/Remote or Sabotage Management with SCADA (RMS/SMS), Pump House Automation with SCADA
2.	CONQUERENT CONTROL SYSTEMS PVT. LTD., Plot No. 604-605, Sector-8, IMT Manesar Gurgaon-122050, Haryana (Email Add: info@conquerent.in)	Compact Substations 33kV, 22kV, 11kV to 433 V, 400 V Compact LV Modular Panels LV Panels (TTA & Non-TTA0), MV Panels (upto 33 kV)"

(अनिल सिंह)
मुख्य अभियंता, बोधी
जल संसाधन विभाग, भोपाल

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal – 462026, Madhya Pradesh

GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com , info@avkawt.com

Approval of Inbuilt Battery OMS and AMS controller on 03-10-2023 :-

कार्यालय मुख्य अभियंता (बोधी)
जल संसाधन विभाग, स्वारा भवन,
लिंक रोड नं. 3, कोलार रेस्ट हाउस के पीछे, भोपाल
दूरभाष क्रमांक 0755-2424038, 2426525 फैक्स नं. 0755, 2424833,
E-mail- eincbodhi@gmail.com

पत्र क्र. 3491/नहर/बोधी/2023
प्रति,

भोपाल, दिनांक 3/10/2023

समस्त मुख्य अभियंता एवं परियोजना संचालक,
जल संसाधन विभाग,
मध्यप्रदेश।

विषय:- जल संसाधन विभाग की प्रिफर्ड लिस्ट (Preferred list) में कम्पनियों को सम्मिलित माना जाने बाबत।

- सन्दर्भ:-
- कार्य विभाग मैनुअल वायुम-1 की कण्डिका 6.001 एवं निविदा प्रपत्र वायुम-3 तकनीकी स्पेशीफिकेशन Appendix-I के प्रावधानों के तहत।
 - प्रमुख अभियंता, जल संसाधन विभाग, तुलसी नगर, भोपाल (म.प्र.) का आदेश क्र. 271/ईटेण्डरिंग/2020-23/961, दिनांक 03.06.2022
 - कार्यालयीन पत्र क्र. 1958/नहर/द.ला./बोधी/2022, भोपाल, दिनांक 15.07.2022
 - कार्यालयीन पत्र क्र. 2151/नहर/द.ला./बोधी/2022, भोपाल, दिनांक 01.08.2022

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उपरोक्त संदर्भित पत्रों के परिप्रेक्ष्य में समिति द्वारा की गई अनुशंसा एवं फैक्ट्रियों के भौतिक स्थापन तथा एकलनरती क्र. /नहर/मु.अ./बोधी, भोपाल, दिनांक 31/10/2023 में प्रमुख अभियंता महोदय द्वारा अनुमोदन उपरांत निम्न कम्पनियों के विभिन्न प्रोडक्ट्स को जल संसाधन विभाग अंतर्गत निर्मित, निर्माणाधीन एवं प्रस्तावित परियोजनाओं के विभिन्न अवयवों में उपयोग करने हेतु विभागीय प्रिफर्ड लिस्ट (Preferred list) में निम्नलिखित कम्पनियों को सम्मिलित माना जाता है:-

S.No	Company Name & Address	Items
1.	Kachnar Polymers Pvt.Ltd., H.O. - 1532, Dr. Barat Road, Napier Town, Jabalpur-482001 (M.P.) Email: kachnarpolymers@gmail.com	HDPE Pipes (63 mm dia to 315 mm dia)
2.	ACMO Water Technology India Pvt. Ltd., #15A, 1 st Floor, Maple High Street, Hoshangabad Road, Bhopal-462026 Email: Shishir.shrivastava@avkawt.com	Battery Operated OMS, AMS / leak detection system solution with inbuilt battery and no solar system
3.	FORTUNE MATAIKS Ltd., 24 Milestone, Bilaspur-Rajpur Highway, V.P.O. Kapasda, Tehsil- Dharsiwa, Raipur-493221 Email: tiwari.neeraj1@gmail.com	TMT Bars Fe-500/500D/550D
4.	SAS Polymers Pvt.Ltd., MPIDC Industrial Area, IGC Sector J, Plot No. J8 to J12, Behind Raymonds Factory, Chhindwara (M.P.) 480108 Email: infor@saspolymers.in	HDPE Pipe ranging from 63 mm dia to 315 mm dia

(जी.पी. सोनी)
मुख्य अभियंता, बोधी
जल संसाधन विभाग, भोपाल

निरंतर 2

ACMO Water Technology India Pvt Ltd

Corporate Office Address : Maple High Street, In front of Ashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh
GST No : 23AAHCN5259N1Z0. CIN No : U74999MP2021PTC055600. www.awt-bharat.com, info@avkawt.com