



# PROJECT : PHOENIX MARKET CITY, INDORE

*SITC of Musical Fountain, Internal Water Bodies & Allied Works.*



# MUSICAL FOUNTAIN & INTERNAL WATER BODIES AT PHOENIX MARKET CITY, INDORE

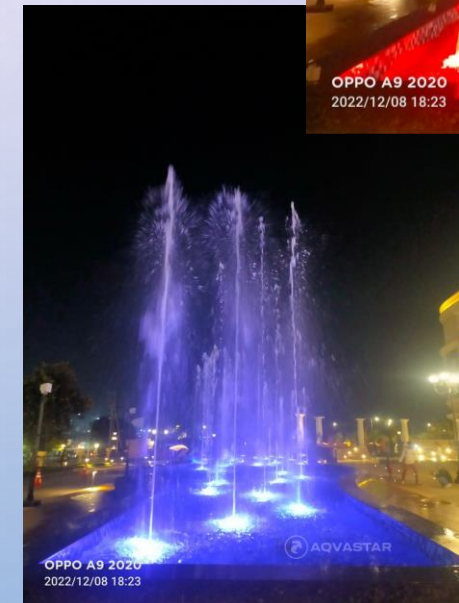
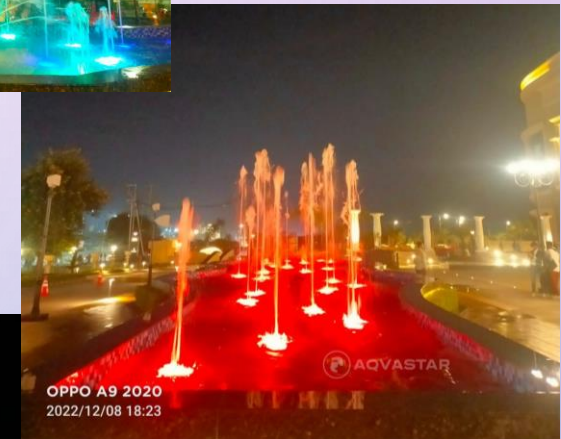
*Project completed in 2022*





# PROJECT INTRODUCTION

- The Project is located in Phoenix Mall - INDORE MUMBAI highway in Indore, Madhya Pradesh.
- The design of this fountain aims to create the pleasant visual effect of the combination of water and light with themed music.
- The overall performance that given by the fountain and lights would impress every passing by visitor /spectator to the mall, particularly in the evening.
- There are 76 Nos shooter jets which composed of Clear stream nozzle, Rotating nozzle, Dome nozzle, Finger nozzle with total pumps of 76 Nos taking care each jet independently.
- The spray height changes between 5-8 mtr by the VFD controlled pumping. Each pump been controlled by individual VFD & all pumps & lights been controlled by specially designed indigenous software.
- Each pump/ nozzle, light can be controlled with highly sophisticated software & network of cabling & plumbing.
- The system also been incorporated with JBL sound system with Speakers around water body.
- An exclusive control room been provided to keep all this control mechanism & access is given only to the supervisor who is in charge for this fountain to operate on day-to-day basis on stipulated timing.
- The water is kept clean always with a dedicated filtration system with UV ensuring the quality of water is best & sanitized always.
- A separate network on piping & cabling been done & all these equipment been kept in a separate room near the security cabin.



# FOUNTAIN PRODUCT

## SS CLEAR STREAM NOZZLE (COMMERCIAL) – DOME



- Creates a fine solid stream of water with angle adjustability
- Water level independent
- Very low noise level
- Adjusted by 15° off center axis
- Orifice: 14mm/ 17mm
- Connection size: 1" / 1 1/4"
- Stainless steel finish, comes with adjustable ball joint



	DOMES JETS	MANIFOLD LEFT
Type of Nozzles	Clear Stream Nozzle	Clear Stream Nozzle
Effect	Fast moving WAVE effect	Circular manifold effect as waterwall
Spray height	7 Mtr High	5 Mtr High with 2.5 Mtr dia
No of nozzles	10 nos	26 Nos
Size	1.5" With 16 mm orifice	1" With 14 mm orifice
Flow per nozzle	175 LPM	60LPM each
Total Flow	175 LPM	1560 LPM
Pump capacity	10.5 m <sup>3</sup> /hr@ 11 mtr head	95 m <sup>3</sup> /hr @ 8 mtr
Material of Construction	Stainless Steel 316	Stainless Steel 316
Model No	ASCSN40SS	ASCSN25SS
Make	AQVASTAR	AQVASTAR



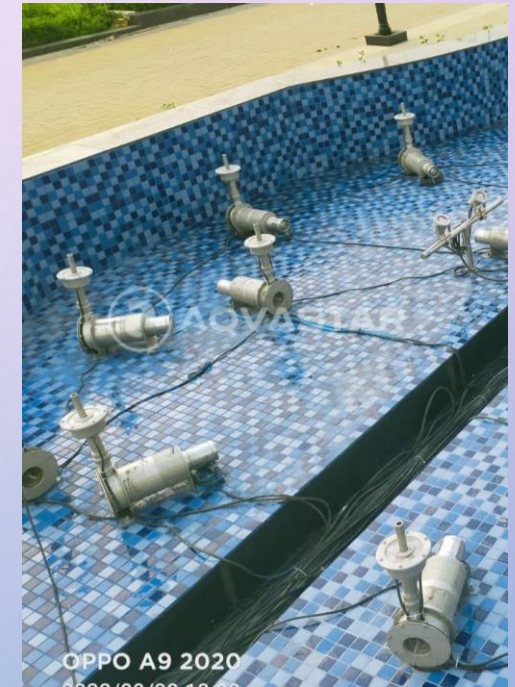


# FOUNTAIN PRODUCT

## SS CLEAR STREAM NOZZLE (COMMERCIAL) – VERTICAL JETS



- Creates a fine solid stream of water with angle adjustability
- Water level independent
- Very low noise level
- Adjusted by 15° off center axis
- Orifice: 14mm/ 17mm
- Connection size: 1" / 1 1/4"
- Stainless steel finish, comes with adjustable ball joint



	VERTICAL JET NOZZLE
Type of Nozzles	Clear Stream Nozzle
Effect	Fast moving WAVE effect
Spray height	7 Mtr High
No of nozzles	22 nos
Size	1.5" With 16 mm orifice
Flow per nozzle	175LPM
Total Flow	175 LPM
Pump capacity	10.5 m <sup>3</sup> /hr @11 mtr head
Material of Construction	Stainless Steel 316
Model No	ASCSN40SS
Make	AQVASTAR



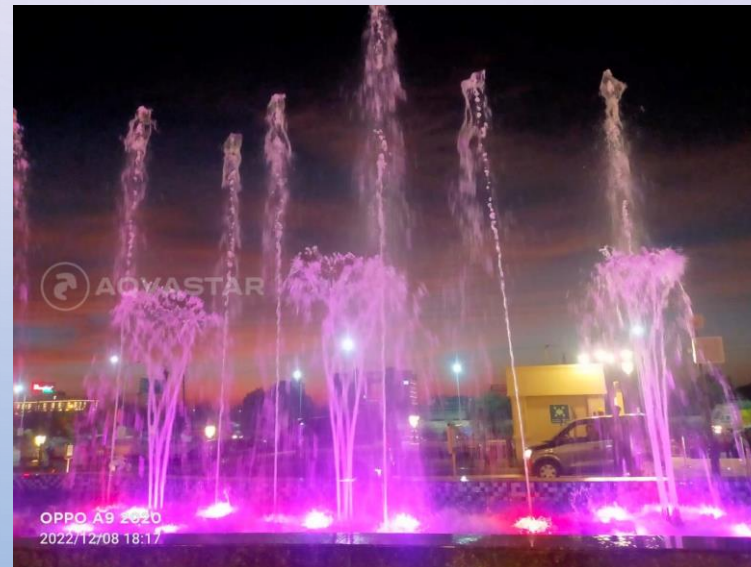
# FOUNTAIN PRODUCT

## SS ROTATING NOZZLE (COMMERCIAL)



- Creates multiple stream spray
- Exclusive low friction turning system
- Slight adjustment possibility for conicity
- Stainless steel 316 finish
- Orifice: 12 mm
- 1 1/2" Threaded connections

	DANCING JET NOZZLE
Type of Nozzles	Rotating Nozzle
Effect	Rotating effect
Spray height	4 Mtr High
No of nozzles	3 No.s
Size	1.5" With 6 nos 8 mm orifice
Flow per nozzle	244 LPM Each
Total flow	244 LPM
Pump capacity	15m <sup>3</sup> /hr @ 5 mtr head
Material of Construction	Stainless Steel 316
Model No	ASRN40SS
Make	AQVASTAR





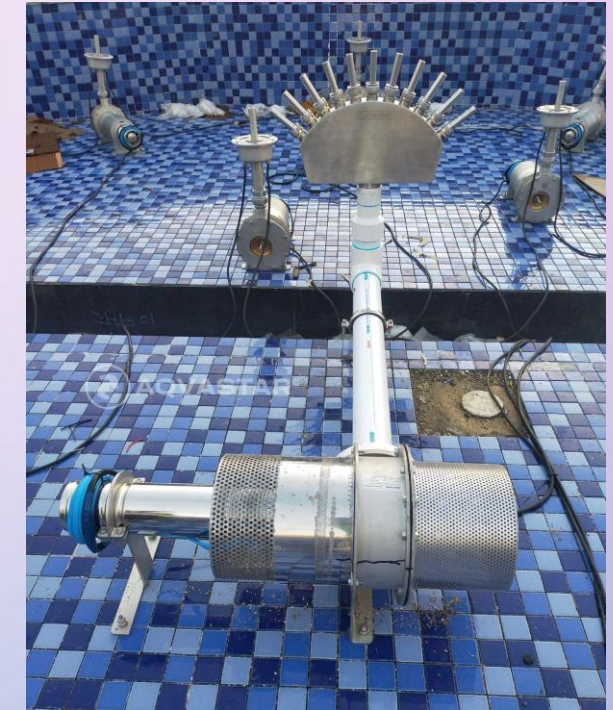
# FOUNTAIN PRODUCT

## SS FAN STOCK JET NOZZLE



- Creates multiple large stream spray
- Exclusive body base to achieve the arch effect
- Nozzle orifice size is 14 mm
- Stainless steel 316 finish
- Orifice: 14 mm
- 2" threaded connection

	FAN STOCK JET NOZZLE
Type of Nozzles	Fan Stock Jet Nozzle
Effect	Clear Stream
Spray height	4 Mtr High
No of nozzles	1 Nos with 11 Outlets
Size	20mm Orifice
Flow per nozzle	106 LPM Each
Total Flow	1200 LPM
Pump capacity	70 m <sup>3</sup> /hr @ 5 mtr
Material of Construction	Stainless Steel 316
Model No	ASFS50SS
Make	AQVASTAR



# FOUNTAIN PRODUCT

## LED RING SEAS SERIES



- IP68 Fixture
- Different input voltage 12V/24V
- Different color possibility warm white/ cool white/ RGB/ RGBW
- 6 High performance LED's
- Light fixture designed for optimum heat transferal with special design
- Light fixture specially designed with gaskets for maximum protectivity against water getting into
- 72 Wattage capacity
- Nozzle mounted



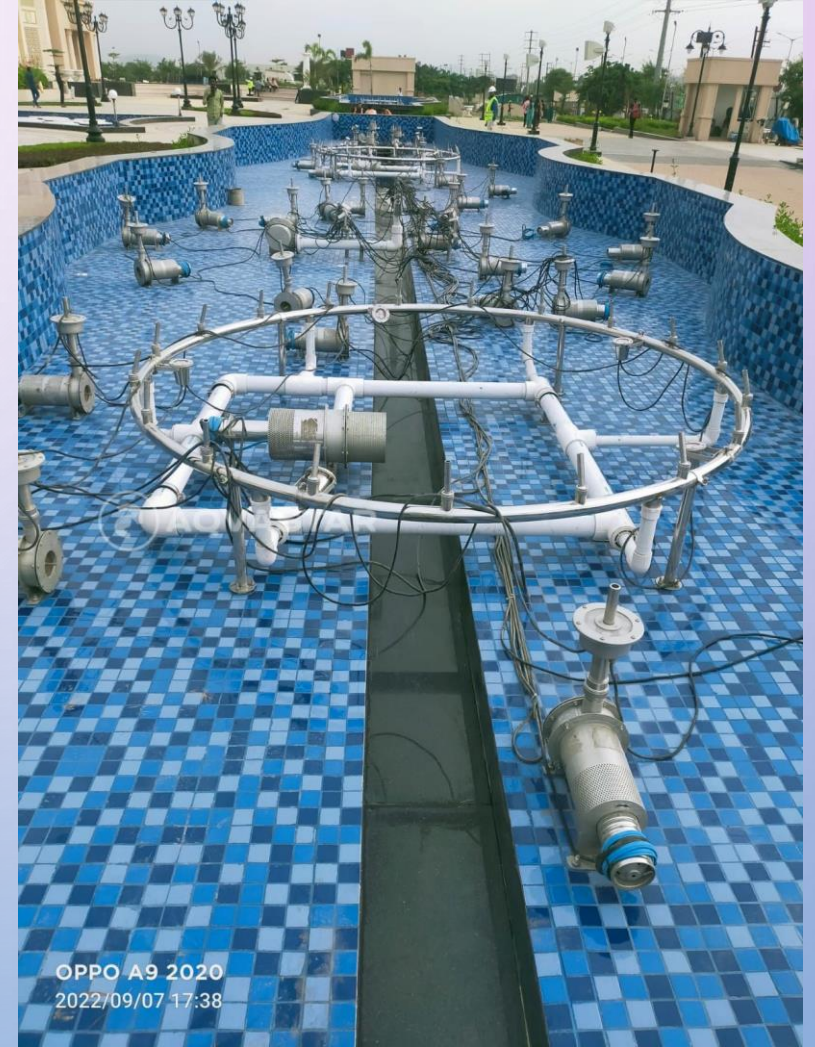
## OCEA LED LIGHT



- IP68 Fixture
- Different input voltage 12V/24V
- Different color possibility warm white/ cool white/ RGB/ RGBW
- 3 High performance LED's
- Light fixture designed for optimum heat transferal with special design
- Light fixture specially designed with gaskets for maximum protectivity against water getting into
- 27 Wattage
- Stand mounted

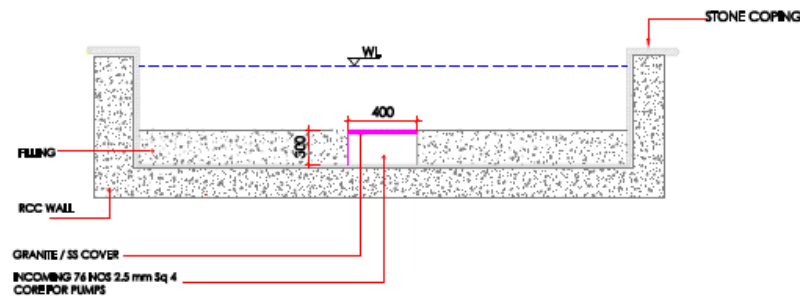
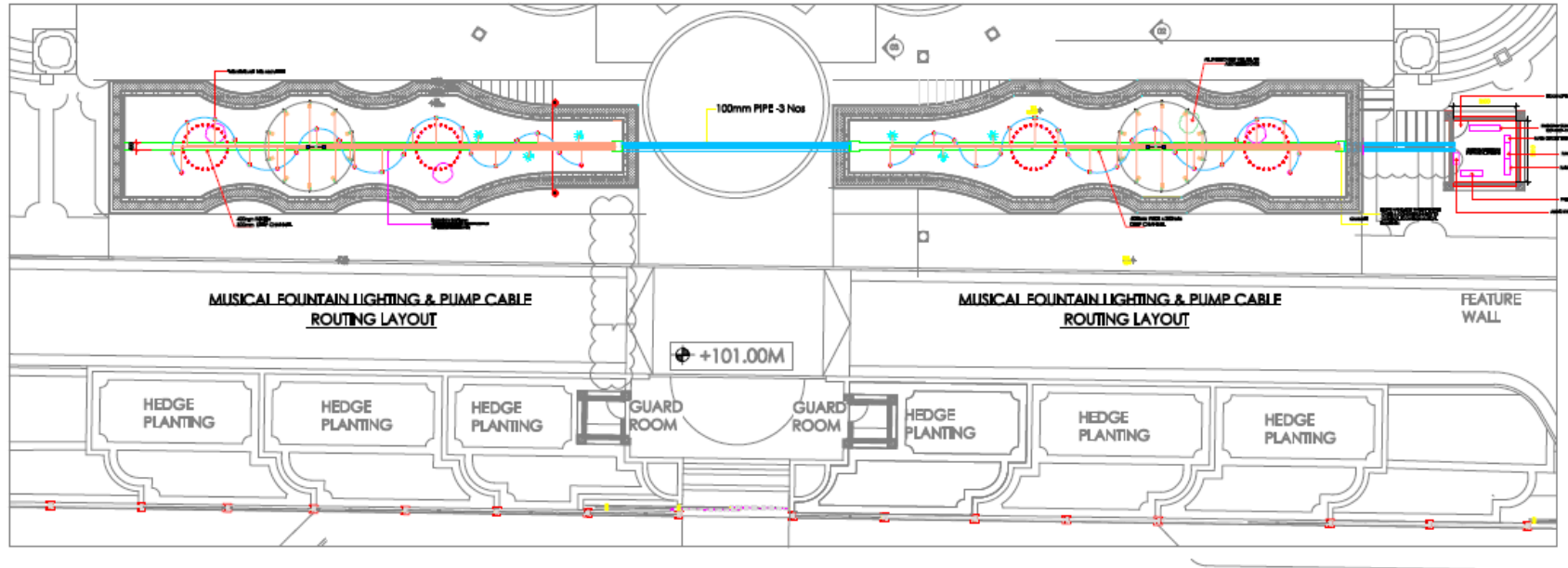


# INSTALLATION DETAIL





# MUSICAL FOUNTAIN LIGHTING & PUMP CABLE ROUTING LAYOUT

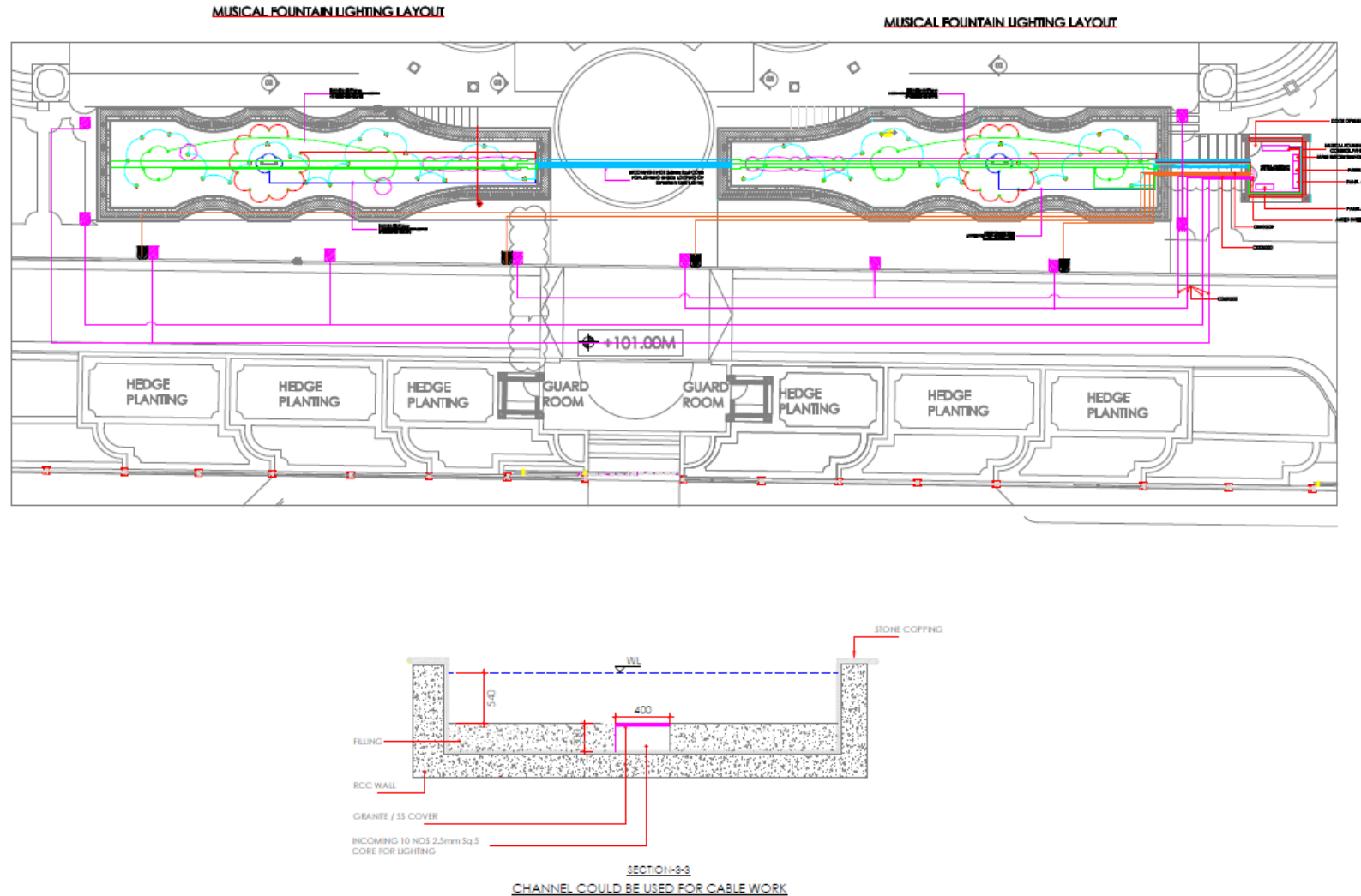


SECTION-3-3

CHANNEL COULD BE USED FOR CABLE WORK



# MUSICAL FOUNTAIN LIGHTING & AUDIO SYSTEM LAYOUT







# MAIN PANEL ROOM



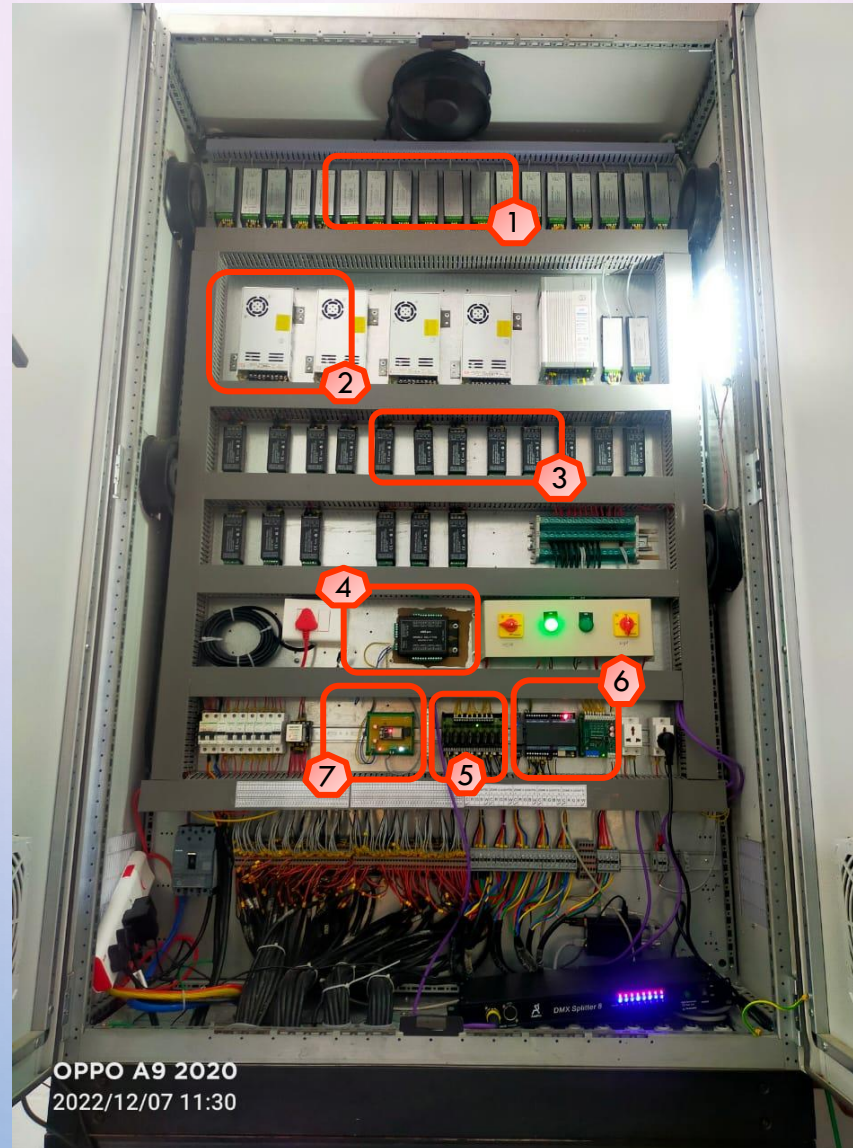
A. Musical Fountain Panel

B. Musical Fountain VFD Panel

C. Braker

# A. MUSICAL FOUNTAIN PANEL

1. Decoder for VFD
2. SMBS switched mode power supply
3. DMX decoder for RGB fountain lights
4. DMX Splitter
5. Relay card
6. DMX Interface
7. Musical Controller



*Musical Fountain Panel - Open*



*Musical Fountain Panel - Closed*



# B. MUSICAL FOUNTAIN VFD PANEL



1



2



3



## B. MUSICAL FOUNTAIN VFD PANEL

1. MCB for individual drive
2. Drive
3. Main control MCB



*Musical system*



*Musical fountain VFD panel - Open*



*Musical fountain VFD panel - Closed*

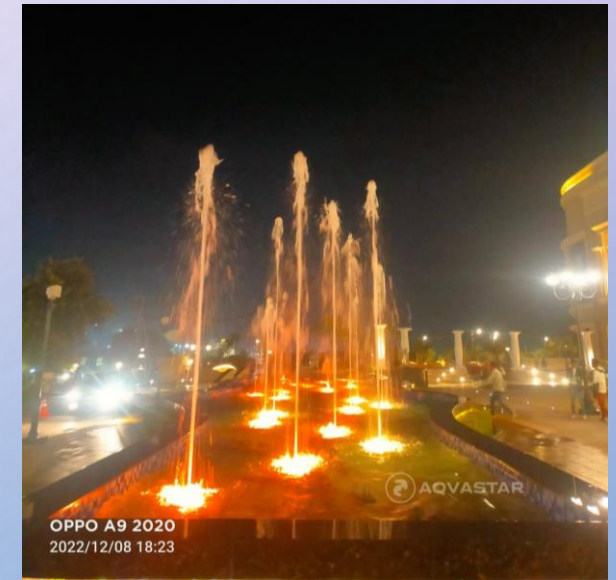


# PROJECT PHOTOS





# PROJECT PHOTOS





# THANK YOU