



SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to
Anna University, Chennai-25)

INDEX CRITERION: 7.1.4

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File Description		Document
Link for Geotagged photos		http://saranathan.ac.in/NAAC/C7/ C7_1_4_i.zip

Saranathan College of Engineering,Trichirappalli
7.1.4 Water conservation facilities available in the Institution

				please tick if applicable	
Water Conservation Facilities	Numbers Available	Size/Capacity	Depth (feet)	Underground	Overtank
Rain water harvesting	29	3'6" X 3'6"	8'	√	
Open well recharge (4 Nos.@ Alanthur & 1 No. @ College campus)	5	32' Diameter	30'	√	
Borewell					
Near generator room	1	6"	100'	√	
Near boys hostel	1	6"	700'	√	
Near workshop	1	6"	300'	√	
Near canteen	1	6"	500'	√	
Alanthur	1	6"	900'	√	
Construction of tanks and bunds					
Near Basket ball ground	1	13' X 30'	9'	√	
Near irrigation channel	1	14'6" X 5'	9'	√	
M.E.block	1	20' X 6'6"	9'	√	
	1	5000 litres (Syntex)			√
Gents Hostel	1	15'6" X 24'6"	9'	√	
	2	14'6" X 11'	4'		√
	1	1000 litres (Syntex for RO)			√
J.S.block	2	2000 litres (Syntex)			√
M.B.A block	1	1000 litres (Syntex)			√
	1	3000 litres (Syntex)			√
	2	14'6" X 11'	4'		√
	2	23' X 8'	9'	√	
K.S.block	1	3000 litres (Syntex)			√
	2	14'6" X 11'	4'		√

	1	26' X 8'6"	9'	√	
	1	23' X 8'	9'	√	
	1	5'6"x5'6" (RO)	6'		√
R.V.block	5	2000 litres (Syntex)			√
	1	1000 litres (Syntex for RO)			√
Work shop	2	14'6" X 11'	2'6"		√

RO water recycling		Count	Capacity(litres)	Average Usage per day(Litres)
RV Block		Nil		Nil
KSBlock		1	1200 litres/hr	15000 litres/day
Civil Block		Nil	Nil	
Library block		Nil	Nil	
Mechanical Block		Nil	Nil	
Boys hostel		1	200 litres/hr	1500 litres/day (1000 litres for drinking & 500 litres for cooking)
Girls hostel		1	600 litres/hr	1550 litres/day (1250 litres for drinking & 300 litres for cooking)

RainWater Harvesting



Water Collection using PVC pipe Outlet from terrace





Drain Well

Borewell/Open well



Construction of tanks and buds



Waste water recycling



Separation of oil & Grease from waste water



Advanced Treatment Facilities for waste water

Water Distribution





SIGNATURE OF SERVICING ENGINEER



SRM WATER SOLUTIONS

(A Group of SRM Enterprises)

Anything is possible...

748

No.6/39, 69th Street, R.V.Nagar, Jafferhanpet, Chennai - 600 083.

Mobile : 94443 76340 Whatsapp : 9940954322 E-mail : raja.srmenterprises@gmail.com

CLIENT NAME : SARADITHAN ENA College [BOYS HOSTEL]

ADDRESS : TIRUCH

DATE	19.5.2020
TIME IN	
TIME OUT	

TROUBLESHOOTING / SERVICE / INSPECTION

ERECTION & COMMISSIONING / AMC / OTC / OTHERS

WEAR SOURCE : BOREWELL / SURFACE WATER / OPEN WELL / OTHERS

PLANT SCHEME : M.G.P. > A.G.P. > M.R. > Dosing > RO

MAKE : J.M

YEAR OF COMMISSIONING : -

CONDITION OF PLANT			
SCHEME			
PLANT			
VESSEL / RO			
PIPELINE			
VALVES			
INSTRUMENTS			
DOSING PUMPS			

DESIGNED RO CAPACITY : 200LPH
 RECOVER : 40%
 MEMBRANE TYPE : CAB / CPA2 / ESPA
 MAKE : GE
 SIZE : 2040 / 4040 / 8040
 TOTAL NO. OF MEMBRANE : 1
 ARRAY : 1
 NO. OF PRESSURE TUBE : 1

OBSERVATION BEFORE SERVICING

	MGF		ACF OUT	BF / CF		I STAGE	II STAGE	III STAGE	FEED	PERME ATE	REJECT	TDS ppm	pH ppm
	IN	OUT		IN	OUT								
PRESSURE KG/CM ²	2.5	2.5	2.5		2.00	11.00	11.00		800	200	600	717	
FLOW M ³ /HR												155	

SERVICED RENDERED

Workdone	Yes	No	Duration	Workdone	Yes	No	Duration
Removal of Media				Backwash / Rinsing			
Micron Cartridge Changing				Regeneration			

OBSERVATION AFTER SERVICING

	MGF		ACF OUT	BF / CF		I STAGE	II STAGE	III STAGE	FEED	PERME ATE	REJECT	TDS ppm	pH ppm
	IN	OUT		IN	OUT								
PRESSURE KG/CM ²													
FLOW M ³ /HR													

ALL PARAMETERS ARE WITHIN RANGE ☐ NOT WITHIN RANGE ☐

SUGGESTED ESSENTIAL SPARES :

P. And
 GENERAL COMMENTS OF SERVICE ENGINEER : In RO water Pump startig problem solved
 flow meter reading
 RO NORMAL RUN

COMMENTS OF CUSTOMER WITH SEAL

R. Nagar
 SIGNATURE OF SERVICING ENGINEER



SRM WATER SOLUTIONS

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Anything is possible...

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No.6/39, 69th Street, R.V.Nagar, Jafferhanpet, Chennai - 600 083.
Mobile : 94443 76340 Whatsapp : 9940954322 E-mail : raja.srmenterprises@gmail.com

CLIENT NAME : SARODATHAN GUY College [BOYS HOSTEL]

ADDRESS : TIRUCHI

DATE	21.3.2024
TIME IN	
TIME OUT	

TROUBLESHOOTING / SERVICE / INSPECTION

ERECTION & COMMISSIONING / AMC / OTC / OTHERS

WEAR SOURCE : BOREWELL / SURFACE WATER / OPEN WELL / OTHERS

PLANT SCHEME : MGR > AGR > Dosing > MR > RO

MAKE : J.M

YEAR OF COMMISSIONING : 2014

CONDITION OF PLANT			
SCHEME			
PLANT			
VESSEL / RO			
PIPELINE			
VALVES			
INSTRUMENTS			
DOSING PUMPS			

DESIGNED RO CAPACITY : 200 LPH
RECOVER : 40 %
MEMBRANE TYPE : CAB / CPA2 / ESPA
MAKE : GE
SIZE : 2040 / 4040 / 8040
TOTAL NO. OF MEMBRANE : 1
ARRAY : 1
NO. OF PRESSURE TUBE : 1

OBSERVATION BEFORE SERVICING

	MGF		ACF OUT	BF / CF		I STAGE	II STAGE	III STAGE	FEED	PERMEATE	REJECT	TDS ppm	pH ppm
	IN	OUT		IN	OUT								
PRESSURE KG/CM ²	2.8	2.6	2.4		2.0	8.00	8.00			775	175	900	
FLOW M ³ /HR												124	

SERVICED RENDERED

Workdone	Yes	No	Duration	Workdone	Yes	No	Duration
Removal of Media				Backwash / Rinsing			
Micron Cartridge Changing				Regeneration			

OBSERVATION AFTER SERVICING

	MGF		ACF OUT	BF / CF		I STAGE	II STAGE	III STAGE	FEED	PERMEATE	REJECT	TDS ppm	pH ppm
	IN	OUT		IN	OUT								
PRESSURE KG/CM ²													
FLOW M ³ /HR													

ALL PARAMETERS ARE WITHIN RANGE ☐ NOT WITHIN RANGE ☐

SUGGESTED ESSENTIAL SPARES :

GENERAL COMMENTS OF SERVICE ENGINEER 20 normal 2014

COMMENTS OF CUSTOMER WITH SEAL

SIGNATURE OF SERVICING ENGINEER



SRM WATER SOLUTIONS

731

(A Group of SRM Enterprises)

Anything is possible...

No.6/39, 69th Street, R.V.Nagar, Jafferkhanpet, Chennai - 600 083.
Mobile : 94443 76340 Whatsapp : 9940954322 E-mail : raja.srmenterprises@gmail.com

CLIENT NAME : SRM COLLEGE (F.S. BLOCK)
ADDRESS : TRICHY

DATE	21.3.2020
TIME IN	
TIME OUT	

TROUBLESHOOTING / SERVICE / INSPECTION

ERECTION & COMMISSIONING / AMC / OTC / OTHERS

WEAR SOURCE : BOREWELL / SURFACE WATER / OPEN WELL / OTHERS

PLANT SCHEME : MGF > Dosing > R.P. > RO

MAKE : -

YEAR OF COMMISSIONING : -

CONDITION OF PLANT			
SCHEME			
PLANT			
VESSEL / RO			
PIPELINE			
VALVES			
INSTRUMENTS			
DOSING PUMPS			

DESIGNED RO CAPACITY : 1000 LPH
RECOVER : 50%
MEMBRANE TYPE : CAB / CPA2 / ESPA
MAKE : -
SIZE : 2040 / 4040 / 8040
TOTAL NO. OF MEMBRANE : 5
ARRAY : 2:2:1
NO. OF PRESSURE TUBE : 5

OBSERVATION BEFORE SERVICING

	MGF		ACF OUT	BF / CF		I STAGE	II STAGE	III STAGE	FEED	PERME ATE	REJECT	TDS ppm	pH ppm
	IN	OUT		IN	OUT								
PRESSURE KG/CM ²	-	-	-	-	-	12.0	12.0		2200	1000	1200	1400	
FLOW M ³ /HR												45	

SERVICED RENDERED

Workdone	Yes	No	Duration	Workdone	Yes	No	Duration
Removal of Media				Backwash / Rinsing			
Micron Cartridge Changing				Regeneration			

OBSERVATION AFTER SERVICING

	MGF		ACF OUT	BF / CF		I STAGE	II STAGE	III STAGE	FEED	PERME ATE	REJECT	TDS ppm	pH ppm
	IN	OUT		IN	OUT								
PRESSURE KG/CM ²													
FLOW M ³ /HR													

ALL PARAMETERS ARE WITHIN RANGE ☐ NOT WITHIN RANGE ☐

SUGGESTED ESSENTIAL SPARES :

GENERAL COMMENTS OF SERVICE ENGINEER RO NORMAN RUVIY

COMMENTS OF CUSTOMER WITH SEAL

R. NARAYAN
SIGNATURE OF SERVICING ENGINEER